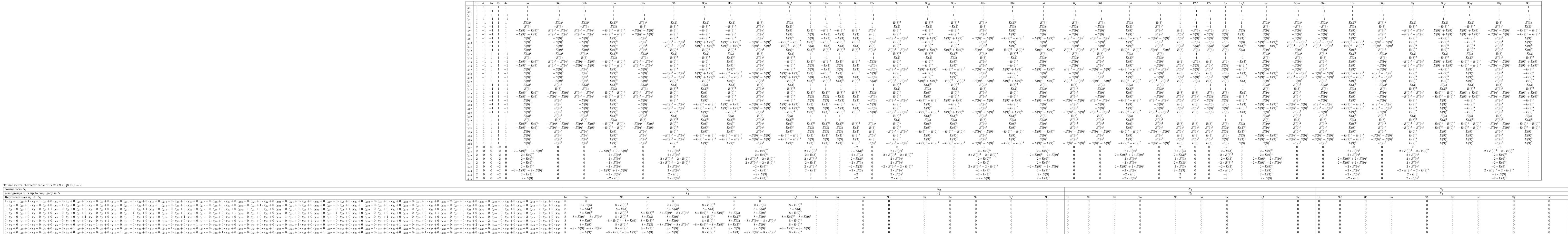
Ordinary character table of  $G \cong C9 \times Q8$ :

Trivial source character table of  $G \cong C9 \times Q8$  at p = 2:



$\frac{1}{\sqrt{10}} + \frac{1}{\sqrt{10}} + $					
$ \left[ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$(9)^7 + 8*E(3)^2 + 8*E(9)^2 + 8*E(9)^4 + 8*E(9)^4 + 0 = 0$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	
$\left  \ 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_{44} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 1 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{16} + 1 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_$	$8*E(3)  -8*E(9)^4 - 8*E(9)^7  -8*E(9)^2 - 8*E(9)^5  8*E(3)^2 \qquad 8*E(9)^4 \qquad 8*E(9)^2 \qquad 0 \qquad 0 \qquad 0$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
$\begin{vmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_{44} + 0 \cdot \chi_{10} + 0 \cdot \chi_{10} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 1 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot$	$8*E(3)^2$ $8*E(9)^5$ $8*E(9)^4$ $8*E(3)$ $8*E(9)^2$ $-8*E(9)^4$ $0$ $0$ $0$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	
$\begin{vmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_{44} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 1 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{31} + 0 \cdot \chi_{41} + 0 \cdot \chi_{42} + 0 \cdot \chi_{43} + 0 \cdot \chi_{44} + 0 \cdot \chi_{45} + 0 \cdot$	$8*E(9)^{5}$ $8*E(9)^{7}$ $8*E(9)^{2}$ $8*E(9)^{2}$ $8*E(9)^{4}$ $8*E(9)^{5}$ 0 0				
$\frac{1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{$	$\frac{1}{A}$ $\frac{1}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
$ \begin{bmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 1 \cdot \chi_{19} + 0 \cdot \chi_{19} + 0 \cdot \chi_{19} + 1 \cdot \chi_{19} + 0 \cdot \chi$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$+ E(3)^{2}$ 4 $+ E(3)$ 4 $+ E(3)^{2}$ 6 $+ E(3)^{2}$ 6 $+ E(3)^{2}$ 7 $+ E(3)^{2}$ 7 $+ E(3)^{2}$ 7 $+ E(3)^{2}$ 8 $+ E(3)^{2}$ 9 $+ E(3)^{$			
$ \begin{bmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{22} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{22} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{22} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi$	$\frac{4}{4*E(3)^2} + \frac{4*E(3)}{4*E(3)} + 4*E(3$	$4*E(3)$ $4*E(3)^2$ $4*E(3)$ $4*E(3)^2$ $0$ $0$ $0$			
$ \begin{vmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_4 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{22} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi$	$4*E(3)^2 \qquad 4*E(9)^5 \qquad 4*E(9)^4 $	$4*E(9)^7$ $4*E(9)^2$ $4*E(9)^4$ $4*E(9)^6$ $4*E(9)^9$ $0$ $0$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	
$\left[\begin{array}{cccccccccccccccccccccccccccccccccccc$	$4*E(3)  -4*E(9)^4 - 4*E(9)^7  -4*E(9)^2 - 4*E(9)^5  4*E(3)^2 \qquad \qquad 4*E(9)^4 \qquad \qquad 4*E(9)^2 \qquad \qquad 4*E(9)^2 \qquad \qquad 4*E(9)^5  4*E(9)^6 \qquad \qquad 4*$	$4*E(9)^5$ $4*E(3)$ $4*E(9)^4$ $4*E(9)^2$ $-4*E(9)^4-4*E(9)^7 \mid 0$ 0	$egin{array}{cccccccccccccccccccccccccccccccccccc$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	
$\left  \ 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_4 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 1 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot$		$(9)^4 - 4 * E(9)^7  4 * E(3)^2  -4 * E(9)^2  4 * E(9)^5  4 * E(9)^4  4 * E(9)^2  0$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$oldsymbol{0}$
$ \begin{vmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{2$	$4*E(3) \qquad 4*E(9)^{4} \qquad 4*E(9)^{5} \qquad 4*E(9)^{7} \qquad -4*E(9)^{7} \qquad 4*E(9)^{5} \qquad 4*E(9)^{7} \qquad 4*E(9)^{7} \qquad 4*E(9)^{7} \qquad 4*E(9)^{8} \qquad 4*E(9)^{9} \qquad 4*E(9)^{8} \qquad 4*E(9)$	$4*E(9)^2$ $4*E(3)$ $4*E(9)^7$ $-4*E(9)^2 - 4*E(9)^5$ $4*E(9)^4$ 0 0 0	$egin{array}{cccccccccccccccccccccccccccccccccccc$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	
$\begin{vmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_{31} + 0 \cdot \chi_{41} + 0 \cdot \chi_{42} + 0 \cdot \chi_{43} + 0 \cdot \chi_{44} + 0 \cdot \chi_{45} + 0 \cdot \chi_{44} + 0 \cdot \chi_{45} + 0 \cdot \chi_{46} + 0 \cdot \chi_{41} + 0 \cdot \chi_{45} + 0 \cdot \chi_{46} + 0 \cdot \chi_{41} + 0 \cdot \chi_{42} + 0 \cdot \chi_{43} + 0 \cdot \chi_{44} + 0 \cdot \chi_{45} + 0 \cdot \chi_{46} + 0 \cdot \chi_{41} + 0 \cdot \chi_{42} + 0 \cdot \chi_{43} + 0 \cdot \chi_{44} + 0 \cdot \chi_{45} + 0 \cdot \chi_{46} + 0 \cdot \chi_{41} + 0 \cdot \chi_{42} + 0 \cdot \chi_{43} + 0 \cdot \chi_{44} + 0 \cdot \chi_{45} + 0 \cdot \chi_{45} + 0 \cdot \chi_{46} + 0 \cdot \chi_{41} + 0 \cdot \chi_{45} + 0 \cdot \chi_{46} + 0 \cdot \chi_{41} + 0 \cdot \chi_{42} + 0 \cdot \chi_{43} + 0 \cdot \chi_{44} + 0 \cdot \chi_{45} + 0 \cdot \chi_{46} + 0 \cdot \chi_{41} + 0 \cdot \chi_{42} + 0 \cdot \chi_{43} + 0 \cdot \chi_{44} + 0 \cdot \chi_{45} + 0 \cdot \chi_{46} + 0 \cdot \chi_{41} + 0 \cdot \chi_{42} + 0 \cdot \chi_{44} + 0 \cdot \chi_{45} + 0 \cdot \chi_{46} + 0 \cdot \chi_{41} + 0 \cdot \chi_{42} + 0 \cdot \chi_{44} + 0 \cdot \chi_{45} + 0 \cdot \chi_{46} + 0 \cdot \chi_{41} + 0 \cdot \chi_{42} + 0 \cdot \chi_{43} + 0 \cdot \chi_{44} + 0 \cdot \chi_{45} + 0 \cdot \chi_{46} + 0 \cdot \chi_{41} + 0 \cdot \chi_{42} + 0 \cdot \chi_{43} + 0 \cdot \chi_{44} + 0 \cdot \chi_{45} + 0 \cdot \chi_{44} + 0 \cdot \chi_{45} + 0 \cdot \chi_{46} + 0 \cdot \chi_{41} + 0 \cdot \chi_{42} + 0 \cdot \chi_{44} + 0 \cdot \chi_{45} + 0 \cdot \chi_{44} + 0 \cdot \chi_{45} + 0 \cdot \chi_{44} + 0 \cdot \chi_{45} + 0 \cdot \chi_{46} + 0 \cdot \chi_{44} + 0 \cdot \chi_{45} + 0 \cdot \chi_{44} + 0 \cdot \chi_{45} + 0 \cdot \chi_{$	$4*E(9)^{5}  4*E(9)^{7}  4*E(9)^{2}  4*E$	$2(9)^{2} - 4 * E(9)^{5} - 4 * E(3) - 4 * E(9)^{4} - 4 * E(9)^{7} - 4 * E(9)^{5} - 4 * E(9)^{7} - 0 = 0$			
$\frac{1}{10.00} + \frac{1}{0.00} + $	$4 * E(3)^{2} = 4 * E(9)^{2} = 4 * E(9)^{3} = 4 * E(9)^{4} = 4 * E(9)^{7} = 4 * E(9)^{5} = 4 * E(9)^{7} = 4 * $	$A * E(9)^4$ $A * E(9)^5$			
0.711 + 0.72 + 0.73 + 0.74 + 0.72 + 0.74	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			
$1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 1 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{11} + 0 \cdot \chi_{11}$	$\mathcal{L}$	$\mathcal{L}$	$\frac{Z}{Z}$ $\frac{Z}$		
$ \begin{vmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{31} + 0 \cdot \chi$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$2 * E(3)$ $2 * E(3)^2$ $2 * E(3)$ $2 * E(3)^2$ $2 * E(3)^2$ $2 * E(3)^2$ $2 * E(3)^2$	$2*E(3)$ $2   2*E(3)^2   2*E(3)$ $0   0   0   0$		
$ \left[ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$2 \qquad 2*E(3) \qquad 2*E(3)^2 \qquad 2*E(3) \qquad 2*E($	$2*E(3)^2$ $2*E(3)$ $2*E(3)$ $2*E(3)$ $2*E(3)$	$2*E(3)^2$ $2*E(3)$ $2*E(3)^2$ $2*E(3)$ $0$ $0$		
$\left[\begin{array}{cccccccccccccccccccccccccccccccccccc$	$2*E(3)^2 \qquad 2*E(9)^5 \qquad 2*E(9)^4 \qquad 2*E(3) \qquad 2*E(9)^2 \qquad -2*E(9)^4 - 2*E(9)^4 \qquad 2*E(9)^4 \qquad 2*E(9)^5 \qquad$	$2*E(9)^{7} \qquad 2*E(3)^{2} \qquad 2*E(9)^{2} \qquad -2*E(9)^{4} - 2*E(9)^{5} \qquad   2 \qquad 2*E(9)^{4} \qquad 2*E(9)^{4} \qquad 2*E(9)^{5} \qquad   2 \qquad 2*E(9)^{4} \qquad   2*E(9)^{4} \qquad   2*E(9)^{5} \qquad   2 \qquad   2 \qquad   2*E(9)^{5} \qquad   2 \qquad $	$2*E(9)^7$ $2*E(3)^2$ $2*E(9)^2$ $-2*E(9)^4 - 2*E(9)^7$ $2*E(9)^5$ $0$ $0$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	
$\left  \begin{array}{cccccccccccccccccccccccccccccccccccc$	$2*E(3)  -2*E(9)^4 - 2*E(9)^7  -2*E(9)^5  2*E(9)^5  2*E(9)^5  2*E(9)^4 \\ 2*E(9)^4  2*E(9)^2     2*E(9)^2 - 2*E(9)^5  2*E(9)^7 \\ 2*E(9)^4     2*E(9)^4 - 2*E(9)^5     2*E(9)^4 - 2*E(9)^5     2*E(9)^4 - 2*E(9)^5 \\    2*E(9)^4 - 2*E(9)^5     2*E(9)^4 - 2*E(9)^5     2*E(9)^4 - 2*E(9)^5 \\    2*E(9)^4 - 2*E(9)^5     2*E(9)^5 - 2*E(9)^5 \\    2*E(9)^4 - 2*E(9)^5     2*E(9)^5 - 2*E(9)^5 \\    2*E(9)^4 - 2*E(9)^5 - 2*E(9)^5 - 2*E(9)^5 \\    2*E(9)^4 - 2*E(9)^5 - 2*E(9)^5 - 2*E(9)^5 \\    2*E(9)^4 - 2*E(9)^5 - 2*E(9)^5 - 2*E(9)^5 - 2*E(9)^5 \\    2*E(9)^4 - 2*E(9)^5 - 2*E(9)^5$	$ 2*E(9)^5 \qquad 2*E(3) \qquad 2*E(9)^4 \qquad 2*E(9)^2 \qquad -2*E(9)^4 - 2*E(9)^7 \mid 2 -2*E(9)^5 - 2*E(9)^5 \qquad 2*E(9)^7 $	$2*E(9)^5$ $2*E(3)$ $2*E(9)^4$ $2*E(9)^2$ $-2*E(9)^4 - 2*E(9)^7 \mid 0$ 0 0	$egin{array}{cccccccccccccccccccccccccccccccccccc$	
$\left  \begin{array}{cccccccccccccccccccccccccccccccccccc$	$2*E(9)^7 - 2*E(3)^2 - 2*E(9)^7 - 2*E(9)^5 - 2*E(9)^5 - 2*E(9)^5 - 2*E(9)^4 - 2*E(9)^5 $	$2 \times E(9)^7 - 2 \times E(9)^7 - 2 \times E(9)^2 - 2 \times E(9)^5 - 2 \times E(9)^5 - 2 \times E(9)^5 - 2 \times E(9)^7 - 2 \times$	$2*E(9)^4 - 2*E(9)^7 - 2*E(3)^2 - 2*E(9)^2 - 2*E(9)^5 - 2*E(9)^4 - 2*E(9)^2 = 0$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	
$0 \cdot v_1 + 0 \cdot v_2 + 0 \cdot v_3 + 0 \cdot v_4 + 0 \cdot v_5 + 0 \cdot v_4 + 0 \cdot v_{13} + 0 \cdot v_{14} + 0 \cdot v_{15} + 0 \cdot v_{25} + 0 \cdot v_{26} + 0 \cdot v_{27} + 0 \cdot v_{28} + 0 \cdot v_{29} + 0 \cdot v_{2$	$2*E(3) \\ 2*E(9)^4 \\ 2*E(9)^5 \\ 2*E(9)^5 \\ 2*E(9)^7 \\ -2*E(9)^7 \\ -2*E(9)^5 \\ 2 \\ 2*E(9)^7 \\ 2*E(9$	$2*E(9)^2$ $2*E(9)^5$ $2*E(9)^5$ $2*E(9)^5$ $2*E(9)^5$ $2*E(9)^5$ $2*E(9)^7$	$2*E(9)^2$ $2*E(3)$ $2*E(9)^7$ $-2*E(9)^2 - 2*E(9)^5$ $2*E(9)^4$ 0 0 0		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$2 \times E(9)^{5} = 2 \times E(9)^{5} = 2 \times E(9)^{4} = 2 \times E(9)^{7} = 2 \times E(9)^{5} = 2 \times E(9)^{7} = 2 \times $	$2 * E(9)^2 = 2 * E(9)^5 = 2 * E(3) = -2 * E(9)^4 = 2 * E(9)^7 = 2 * E(9)^5 = 2 * E(9)^7 = 0$		
$\frac{1}{\sqrt{11}} + \frac{1}{\sqrt{21}} + \frac{1}{\sqrt{10}} + $	$2 + E(0) = 2 + E(0) = 2 + E(0)^{\frac{1}{2}} + E(0)^{\frac{1}{2$	$2 + E(0)^{4} \qquad 2 + E(0)^{5} \qquad 2 + E(0)^{5} \qquad 2 + E(0)^{7} \qquad -2 + E(0)^{2} - 2 + E(0)^{4} - 2 + E(0)^{7} \qquad 2 + E(0)^{2}$	$2 + E(0)^{2} + E(0)^$		
$\frac{0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 1 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_$	2 + E(3) - 2 + E(	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\frac{2*E(9)}{0} = \frac{2*E(9)}{0} = 2*$		
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_{10} + 0 \cdot \chi$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0 $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
$ \begin{vmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{11} +$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$2 * E(3)$ $2 * E(3)^2$ $2 * E(3)$ $2 * E(3)^2$ $0 * E(3)^2$ $0 * E(3)^2$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$2 \qquad 2*E(3)^2 \qquad 2*E(3) \qquad 2*E(3)^2 \qquad 0 \qquad 0 \qquad 0 \qquad 0$	
$ \left  \begin{array}{cccccccccccccccccccccccccccccccccccc$	$2 \qquad 2*E(3) \qquad 2*E(3)^2 \qquad 2*E(3) \qquad 2*E(3) \qquad 2*E(3) \qquad 2*E(3)$	$2*E(3)^2$	$0 \qquad 0 \qquad 0 \qquad 0 \qquad 2 \qquad 2*E(3)^2 \qquad 2 \qquad 2*E(3) \qquad 2*E(3)^2$	$2   2*E(3)   2*E(3)^2   2*E(3)   0   0$	
$\left[\begin{array}{cccccccccccccccccccccccccccccccccccc$	$2*E(3)^2 \qquad 2*E(9)^5 \qquad 2*E(9)^4 \qquad 2*E(3) \qquad 2*E(9)^2 \qquad -2*E(9)^4 \qquad 2*E(9)^4 \qquad 2*E(9)^4 \qquad 2*E(9)^5 \qquad$	$2*E(9)^7$ $2*E(3)^2$ $2*E(9)^2$ $-2*E(9)^4 - 2*E(9)^7$ $2*E(9)^5$ $0$ $0$	$0   0   0   2 * E(9)^4   2 * E(9)^2 - 2 * E(9)^5   2 * E(9)^6$	$2*E(3)^2$ $2*E(9)^2$ $-2*E(9)^4 - 2*E(9)^7$ $2*E(9)^5$ $0$ $0$	
$\left  \ 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_4 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot$	$2*E(3)  -2*E(9)^4 - 2*E(9)^7  -2*E(9)^2 - 2*E(9)^5  2*E(3)^2 \\ 2*E(9)^4  2*E(9)^2     2*E(9)^2 - 2*E(9)^5  2*E(3)^2 \\ 2*E(9)^4     2*E(9)^4 - 2*E(9)^5     2*E(9)^4 - 2*E(9)^5     2*E(9)^4 - 2*E(9)^5 \\    2*E(9)^4 - 2*E(9)^5     2*E(9)^4 - 2*E(9)^5     2*E(9)^4 - 2*E(9)^5 \\    2*E(9)^4 - 2*E(9)^5     2*E(9)^4 - 2*E(9)^5     2*E(9)^4 - 2*E(9)^5 \\    2*E(9)^4 - 2*E(9)^5     2*E(9)^4 - 2*E(9)^5     2*E(9)^4 - 2*E(9)^5 \\    2*E(9)^4 - 2*E(9)^5     2*E(9)^5 - 2*E(9)^5 - 2*E(9)^5 \\    2*E(9)^4 - 2*E(9)^5 - 2*E(9)^5 - 2*E(9)^5 - 2*E(9)^5 - 2*E(9)^5 \\    2*E(9)^4 - 2*E(9)^5 - 2*E(9)^$	$\angle *E(9)^5$ $2*E(3)$ $2*E(9)^4$ $2*E(9)^2$ $-2*E(9)^4 - 2*E(9)^7 \mid 0$ $0$	$0   0   0   0   2 * E(9)^{2} - 2 * E(9)^{5}   2 * E(3)^{2}   2 * E(9)^{7}   2 * E(9)^{5}$	$2*E(3)$ $2*E(9)^4$ $2*E(9)^2$ $-2*E(9)^4 - 2*E(9)^7 \mid 0$ 0 0 0	
$ \begin{vmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_4 + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi$	$ 2*E(9)^7 - 2*E(3)^2 - 2*E(9)^2 - 2*E(9)^5 - 2*E(9)^5 - 2*E(9)^4 - 2*E(9)^5 - 2*E(9)^4 - 2*E(9)^5 - 2*E(9)^4 - 2*E(9)^5 - 2*E(9)^5$	$2 \cdot (9)^4 - 2 \cdot E(9)^7 - 2 \cdot E(3)^2 - 2 \cdot E(9)^2 - 2 \cdot E(9)^5 - 2 \cdot E(9)^4 - 2 \cdot E(9)^2 - 0 = 0$	0 0 0 $2 * E(9)^7$ $2 * E(9)^5$ $-2 * E(9)^4 - 2 * E(9)^7$	$2*E(3)^2$ $-2*E(9)^2 - 2*E(9)^5$ $2*E(9)^4$ $2*E(9)^2$ 0 0 0	
$\begin{vmatrix} 0 \cdot \chi_{11} + 0 \cdot \chi_{21} + 0 \cdot \chi_{31} + 0 \cdot \chi_{41} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21} + 0 \cdot \chi_{11} + 0$	$2*E(3) \qquad 2*E(9)^4 \qquad 2*E(9)^5 \qquad 2*E(3)^2 \qquad 2*E(9)^7 \qquad -2*E(9)^5 \qquad 2*E(9)^5 \qquad 2*E(9)^5 \qquad 2*E(9)^7 \qquad 2*E(9)^7 \qquad 2*E(9)^7 \qquad 2*E(9)^7 \qquad 2*E(9)^7 \qquad 2*E(9)^8 \qquad$	$2*E(9)^2$ $2*E(3)$ $2*E(9)^7$ $-2*E(9)^2 - 2*E(9)^5$ $2*E(9)^4$ 0 0 0	$0   0   0   2 * E(9)^5   2 * E(9)^4 - 2 * E(9)^7   2 * E(9)^2$	$2*E(3)$ $2*E(9)^7$ $-2*E(9)^2-2*E(9)^5$ $2*E(9)^4$ 0 0 0	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$L(9)^2 = 2 * E(9)^5 = 2 * E(9)^4 = 2 * E(9)^7 = 2 * E(9)^5 = 2 * E(9)^7 = 0$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$2 * E(3) = 2 * E(9)^4 = 2 * E(9)^7$ $2 * E(9)^5$ $2 * E(9)^7$ $0$	
$\frac{1}{10} \frac{1}{10} \frac$	$2 + E(0) = 2 + E(0) = 2 + E(0)^{\frac{1}{2}} + E(0)^{\frac{1}{2$	$2 + E(0)^4$ $2 + E(0)^5$ $2 + E(0)^5$ $2 + E(0)^7$ $-2 + E(0)^2 - 2 + E(0)^5$ 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2 + E(0) = 0 $2 + E(0) = 2 + E(0) = 2 + E(0) = 0$	
$ \begin{bmatrix} 0.0000000000000000000000000000000000$	2*E(3) - 2*E(3)	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$1 \cdot \chi_{1} + 1 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{10} + 0 \cdot \chi_{10} + 0 \cdot \chi_{10} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$egin{array}{cccccccccccccccccccccccccccccccccccc$	$egin{array}{cccccccccccccccccccccccccccccccccccc$
$ \begin{bmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_{6} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{21} + 0 \cdot$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$2 * E(3)$ $2 * E(3)^2$ $2 * E(3)$ $2 * E(3)^2$ $0$ $0$ $0$		$0 \qquad 0 \qquad 0 \qquad 0 \qquad 2 \qquad 2*E(3) \qquad 2 \qquad 2*E(3)^{2} \qquad 2*E(3)$	$2 \qquad 2*E(3)^2 \qquad 2*E(3) \qquad 2*E(3)^2 \qquad 0 \qquad 0 \qquad 0 \qquad 0 \qquad 0 \qquad 0$
$\left \begin{array}{cccccccccccccccccccccccccccccccccccc$	$2 \qquad 2*E(3) \qquad 2*E(3)^2 \qquad 2*E(3)^2 \qquad 2*E(3) \qquad 2*E(3)$	$2*E(3)^2$ $2*E(3)$ $2*E(3)^2$ $0$ $0$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	0 0 0 $2 * E(3)^2$ 2 $2*E(3)$ 2 $2*E(3)^2$	$2   2*E(3)   2*E(3)^2   2*E(3)   0   0   0   0$
$\left  \begin{array}{cccccccccccccccccccccccccccccccccccc$	$2*E(3)^2 \qquad 2*E(9)^5 \qquad 2*E(9)^4 \qquad 2*E(3) \qquad 2*E(9)^2 \qquad -2*E(9)^4 \qquad 2*E(9)^7 \mid 2 \qquad 2*E(9)^4 \qquad 2*E(3) \qquad -2*E(9)^5 \qquad 2*F(9)^5 \qquad 2*F(9)^5 \qquad 2*E(9)^5 \qquad 2*E(9)^$	$\angle *E(9)^7$ $2*E(3)^2$ $2*E(9)^2$ $-2*E(9)^4 - 2*E(9)^7$ $2*E(9)^5$ $0$ $0$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	0 0 $2 * E(9)^4$ $2 * E(9)^5$ $2 * E(9)^5$ $2 * E(9)^6$	$2*E(3)^2$ $2*E(9)^2$ $-2*E(9)^4 - 2*E(9)^7$ $2*E(9)^5$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$
$\left  \ 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{22} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{22} + 0 \cdot \chi_{22} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot$	$2*E(3)  -2*E(9)^4 - 2*E(9)^7  -2*E(9)^5  2*E(9)^5  2*E(9)^5  2*E(9)^4 \\ 2*E(9)^4  2*E(9)^2  2*E(9)^5  2*E(9)^7  2*E(9)^7  2*E(9)^7  2*E(9)^7  2*E(9)^7  2*E(9)^8  2*E(9)^8 $	$\angle *E(9)^5$ $2*E(3)$ $2*E(9)^4$ $2*E(9)^2$ $-2*E(9)^4 - 2*E(9)^7 \mid 0$ $0$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	$0   0   0   2 * E(9)^2 - 2 * E(9)^5   2 * E(3)^2   2 * E(9)^7   2 * E(9)^5$	$2*E(3)$ $2*E(9)^4$ $2*E(9)^2$ $-2*E(9)^4 - 2*E(9)^7 \mid 0$ 0 0 0 0 0 0
$ \begin{vmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_4 + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi$	$ 2*E(9)^7 - 2*E(3)^2 - 2*E(9)^2 - 2*E(9)^5 - 2*E(9)^5 - 2*E(9)^5 - 2*E(9)^4 - 2*E(9)^5 - 2*E(9)^5 - 2*E(9)^4 - 2*E(9)^5 - 2*E(9)^5$	$2 \cdot (9)^4 - 2 \cdot E(9)^7 - 2 \cdot E(3)^2 - 2 \cdot E(9)^2 - 2 \cdot E(9)^5 - 2 \cdot E(9)^4 - 2 \cdot E(9)^2 - 0 = 0$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	0 0 $2 * E(9)^7$ $2 * E(9)^5$ $-2 * E(9)^4 - 2 * r^7$	$*E(9)^7 - 2*E(3)^2 - 2*E(9)^2 - 2*E(9)^5 - 2*E(9)^4 - 2*E(9)^4 - 2*E(9)^2 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - $
$\frac{1}{10\cdot v_1 + 0\cdot v_2 + 0\cdot v_3 + 0\cdot v_4 + 0\cdot v_5 + 0\cdot v_4 + 0\cdot v_5 + 0\cdot v_{10} + 0\cdot v_{1$	$2*E(3) \qquad 2*E(9)^4 \qquad 2*E(9)^5 \qquad 2*E(9)^7 \qquad -2*E(9)^5 \qquad 2*E(9)^5 \qquad 2*E(9)^7 \qquad 2*E(9)^7 \qquad 2*E(9)^7 \qquad 2*E(9)^7 \qquad 2*E(9)^8 \qquad$	$2*E(9)^2$ $2*E(3)$ $2*E(9)^7$ $-2*E(9)^2 - 2*E(9)^5$ $2*E(9)^4$ 0 0 0		0 0 $2 * E(9)^5   2 * E(3)^2  -2 * E(9)^4 - 2 * E(9)^7  2 * E(9)^2$	$2*E(3)$ $2*E(9)^7$ $-2*E(9)^2 - 2*E(9)^5$ $2*E(9)^4$ $0$ $0$ $0$ $0$ $0$
$\frac{1}{10.000000000000000000000000000000000$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\frac{1}{2} \frac{1}{2} \frac{1}$		0 0 0 0 $2 \times E(9)^2$ $2 \times E(9)^4$ $-2 \times E(9)^4$ $-2 \times E(9)^2 - 2 \times E(9)^4$ $-2 \times E(9)^2 - 2 \times E$	$+ E(0)^5 + 2 + E(0) + 2 + E(0)^7 + 2 + E(0)^5 + 2 + E(0)^7 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + $
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\frac{-7}{2} + \frac{E(9)}{2} + E(9$		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$\frac{0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_{11} + 0 \cdot \chi_{11} + 0 \cdot \chi_{11} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{21} + 0 \cdot \chi_$	$\frac{2*E(\mathfrak{d})^{2}-2*E(\mathfrak{d})^{2$	$\frac{*E(9)^{-}}{4}$ $\frac{2*E(9)^{-}}{4}$ $\frac{2*E(9)^{-}}{4}$ $\frac{2*E(9)^{-}}{4}$ $\frac{-2*E(9)^{-}}{4}$ $\frac{-2*E(9)^{-}}{4}$ $\frac{1}{4}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	$egin{array}{cccccccccccccccccccccccccccccccccccc$
$\left \begin{array}{cccccccccccccccccccccccccccccccccccc$	1 $E(3)^2$ $E(3)$ 1 $E(3)^2$	$E(3)$ 1 $E(3)^2$ $E(3)^2$ 1 $E(3)^2$	$E(3)$ 1 $E(3)^2$ $E(3)^2$ $E(3)^2$ 1 $E(3)^2$	1 $E(3)^2$ $E(3)$ $E(3)^2$ 1 $E(3)^2$ $E(3)^2$	$1 \qquad \qquad E(3)^2 \qquad \qquad E(3) \qquad \qquad E(3)^2 \qquad \qquad 1 \qquad \qquad E(3)^2 \qquad \qquad E(3) \qquad \qquad E(3)^2 \qquad \qquad E$
$\left[ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1 $E(3)$ $E(3)^2$ 1 $E(3)$ $E(3)^2$ 1 $E(3)$ $E(3)^2$ 1 $E(3)$	$E(3)^2$	$E(3)^2$ 1 $E(3)$ $E(3)^2$ $E(3)$ $E(3)^2$ 1 $E(3)$ $E(3)^2$	1 $E(3)$ $E(3)^2$ $E(3)$ $E(3)^2$ 1 $E(3)$	1 $E(3)$ $E(3)^2$ $E(3)$ $E(3)^2$ $E(3)$ $E(3)^2$ 1 $E(3)$ $E(3)^2$ $E(3)$ $E(3)^2$ $E(3)$
$\left  \ 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_4 + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot$	$E(3)^2 \qquad -E(9)^2 - E(9)^5 \qquad -E(9)^4 - E(9)^7 \qquad E(3) \qquad E(9)^5 \qquad \qquad E(9)^7 \qquad \qquad   \ 1 \qquad -E(9)^4 - E(9)^7 \qquad \qquad E(9)^2 \qquad \qquad E(9)^2 \qquad \qquad E(9)^2 \qquad \qquad   \ 1 \qquad -E(9)^4 - E(9)^7 \qquad \qquad   \ 1 \qquad -E(9)^4 - E(9$	$E(9)^4$ $E(3)^2$ $E(9)^5$ $E(9)^7$ $-E(9)^2 - E(9)^5$ $   1 - E(9)^4 - E(9)^7 - E(3) $ $E(9)^2$	$E(9)^4$ $E(3)^2$ $E(9)^5$ $E(9)^7$ $-E(9)^2 - E(9)^5$ $   1 - E(9)^4 - E(9)^7 - E(3) $ $E(9)^2$ $E(9)^4$	$E(3)^2$ $E(9)^5$ $E(9)^7$ $-E(9)^2 - E(9)^5$ $1$ $-E(9)^4 - E(9)^7$ $E(3)$ $E(9)^2$ $E(9)^4$	$E(3)^2 \qquad E(9)^5 \qquad E(9)^7 \qquad -E(9)^2 - E(9)^5 \qquad   \ 1 - E(9)^4 - E(9)^7 \qquad E(3) \qquad E(9)^2 \qquad E(9)^4 \qquad E(3)^2 \qquad E(9)^5 \qquad E(9)^7 \qquad -E(9)^2 - E(9)^5 \qquad   \ 1 - E(9)^4 - E(9)^7 \qquad E(9)^7 \qquad E(9)^7 \qquad -E(9)^7 - E(9)^7 \qquad   \ 1 - E(9)^4 - E(9)^7 \qquad   \ 1 - E(9)^7 \qquad  $
$ \begin{vmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi$	$E(3)^2$ $E(9)^5$ $E(9)^4$ $E(3)$ $E(9)^2$ $-E(9)^4$ $E(3)$ $E(9)^4$ $E(3)$ $-E(9)^5$ $E(9)^5$	$E(9)^7$ $E(3)^2$ $E(9)^2$ $-E(9)^4 - E(9)^7$ $E(9)^5$ $E(9)^4$ $E(9)^4$ $E(9)^4$ $E(9)^5$	$E(9)^7$ $E(3)^2$ $E(9)^2$ $-E(9)^4$ $E(9)^5$ $E(9)^5$ $E(9)^5$ $E(9)^7$	$E(3)^2$ $E(9)^2$ $-E(9)^4 - E(9)^7$ $E(9)^5$ $E(9)^5$ $E(9)^7$	$E(3)^2 \qquad E(9)^2 \qquad -E(9)^4 - E(9)^7 \qquad E(9)^5 \qquad 1 \qquad E(9)^4 \qquad E(3)  -E(9)^2 - E(9)^5 \qquad E(9)^7 \qquad E(9)^5 \qquad  $
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$E(3)^{2} \qquad E(9)^{2} \qquad E(9)^{7} \qquad E(3) \qquad -E(9)^{2} - E(9)^{5} \qquad E(9)^{4} \qquad 1 \qquad E(9)^{7} \qquad E(3) \qquad E(9)^{5} \qquad -E(9)^{4} \qquad 1 \qquad E(9)^{7} \qquad E(3) \qquad E(9)^{5} \qquad -E(9)^{4} \qquad -E(9)^{4$	$E(9)^4 = E(9)^7 = E(3)^2 = -E(9)^2 = E(9)^5 = E(9)^4 = E(9)^2 = E(9)^7 = E(3) = E(9)^5 = E($	$-E(9)^4 - E(9)^7 - E(3)^2 - E(9)^2 - E(9)^5 - E(9)^4 - E(9)^2 - E(9)^5 - E(9)^4 - E(9)^7 - E(3)^7 - $	$E(3)^2 = -E(9)^2 - E(9)^5 = E(9)^4 = E(9)^2 = 1 = E(9)^7 = E(3) = E(9)^5 = -E(9)^4 - E(9)^5 = -E(9)^5 = -E(9$	$E(9)^{7} \qquad E(3)^{2} \qquad -E(9)^{2} - E(9)^{5} \qquad \qquad E(9)^{4} \qquad \qquad E(9)^{2} \qquad \qquad 1 \qquad E(9)^{7} \qquad E(3) \qquad \qquad E(9)^{5} \qquad -E(9)^{4} - E(9)^{7} \qquad E(3)^{2} - E(9)^{5} \qquad \qquad E(9)^{4} \qquad \qquad E(9)^{2} \qquad \qquad E(9)$
$ \begin{bmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{27} + 0 \cdot \chi_{29} + 0 \cdot \chi$	$\frac{E(0)}{40^5} = \frac{E(0)^7}{E(0)^7} = \frac{E(0)^2}{E(0)^2} = \frac{E(0)^4}{E(0)^7} = \frac{E(0)^5}{E(0)^5} = \frac{E(0)^2}{E(0)^2} = \frac{E(0)^4}{E(0)^5} = E(0)^4$	$E(0) = E(0)^{5}$ $E(3) = E(0)^{4} = E(0)^{7}$ $E(0)^{5}$ $E(0)^{7}$ $E(0)^{2}$ $E(0)^{2}$ $E(0)^{2}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$E(9)$ $E(9)^{7}$ $E(9)^{7}$ $E(9)^{7}$ $E(9)^{7}$ $E(9)^{2}$ $E(9)^{4}$ $E(9)^{4}$ $E(9)^{2}$ $E(9)^{4}$ $E(9)^{2}$ $E(9)^{4}$ $E(9)^{2}$ $E(9)^{4}$ $E(9)^{2}$ $E(9)^{4}$ $E(9)^{2}$ $E(9)^{4}$ $E($	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$ \begin{bmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{2$	$\frac{E(0)}{E(0)} = \frac{E(0)}{E(0)} = \frac{E(0)}{E(0)$	$\frac{E(0)}{E(0)^2} = \frac{E(0)}{E(0)^7} = \frac{E(0)}{E(0)^5} = \frac{E(0)}{E(0)^4} = \frac{E(0)}{1} = \frac{E(0)}{E(0)^5} = \frac{E(0)}{E(0)^7} = \frac{E(0)}{E(0)^7}$	$\frac{E(0)}{E(0)^2} = \frac{E(0)}{E(0)^4} = \frac{E(0)}{E($	E(0) =	$\frac{E(0)}{E(0)} = \frac{E(0)}{E(0)} = \frac{E(0)}{E(0)$
$\begin{bmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_$	$\frac{E(3)}{E(9)^2} = \frac{E(9)^2}{E(9)^3} = \frac{E(3)^2}{E(9)^2} = \frac{E(9)^2}{E(9)^4} = \frac{E(9)^2}{E(9)^2} = E(9)$	$\frac{E(9)^2}{E(9)^5} = \frac{E(3)}{E(9)} = \frac{E(9)^2}{E(9)^4} = \frac{E(9)^2}{E(9)^2} = \frac{E(9)}{E(9)^7} = E(9)$	$\frac{E(9)^2}{E(9)^5} = \frac{E(3)}{E(9)} = \frac{E(9)^2}{E(9)^2} = \frac{E(9)^2}{E(9)^2} = \frac{E(9)}{E(9)^2} = \frac{E(9)}{E(9)^2} = \frac{E(9)}{E(9)^2} = \frac{E(9)}{E(9)^2} = \frac{E(9)}{E(9)^2} = \frac{E(9)^2}{E(9)^2} $	$\frac{E(3)}{E(9)} = \frac{E(9)^{7} - E(9)^{7}}{E(0)^{4}} = \frac{E(9)^{7}}{E(0)^{4}} = \frac{E(9)}{E(0)^{7}} = \frac{E(9)}{E(0)^{5}} = \frac{E(9)}{E$	$\frac{E(3)}{E(9)} = \frac{E(9)}{E(9)} = \frac{E(9)}{E(9)$
$ \begin{bmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_{35} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{2$	$E(3) - E(9)^4 - E(9)^6 - E(9)^6 - E(9)^6 - E(3)^2 - E(9)^6 - E(9$	$E(9)^{\circ} \qquad E(3) \qquad E(9)^{\circ} \qquad E($	$E(9)^{\circ} \qquad E(3) \qquad E(9)^{\circ} \qquad E($	$E(3)   E(9)^{\frac{1}{4}}   E(9)^{\frac{1}{4}}   E(9)^{\frac{1}{4}} - E(9)^{\frac{1}{4}}$	$E(3)   E(9)^{\frac{1}{4}}   E(9)^{\frac{1}{4}}   E(9)^{\frac{1}{4}} - E(9)^{\frac{1}{4}}$
$P_1 = Group([()]) \cong 1$ $P_2 = Group([(10, 13)(11, 15)(12, 16)(14, 17)]) \cong C2$					
$P_2 = Group([(10, 13)(11, 15)(12, 16)(14, 17)]) \cong \mathrm{C2}$					
$D = C_{\text{max}}([(10.19)(1.15$					

 $P_3 = Group([(10, 13)(11, 15)(12, 16)(14, 17), (10, 12, 13, 16)(11, 14, 15, 17)]) \cong C4$  $P_4 = Group([(10, 13)(11, 15)(12, 16)(14, 17), (10, 11, 13, 15)(12, 17, 16, 14)]) \cong C4$  $P_5 = Group([(10, 13)(11, 15)(12, 16)(14, 17), (10, 17, 13, 14)(11, 12, 15, 16)]) \cong C4$  $P_6 = Group([(10, 13)(11, 15)(12, 16)(14, 17), (10, 12, 13, 16)(11, 14, 15, 17), (10, 11, 13, 15)(12, 17, 16, 14)]) \cong \mathbb{Q}8$  $N_1 = Group([(10, 11, 13, 15)(12, 17, 16, 14), (10, 12, 13, 16)(11, 14, 15, 17), (1, 6, 2, 7, 3, 8, 4, 9, 5), (10, 13)(11, 15)(12, 16)(14, 17), (1, 7, 4)(2, 8, 5)(3, 9, 6)]) \cong C9 \times Q8$  $V_2 = Group([(10,11,13,15)(12,17,16,14),(10,12,13,16)(11,14,15,17),(1,6,2,7,3,8,4,9,5),(10,13)(11,15)(12,16)(14,17),(1,7,4)(2,8,5)(3,9,6)]) \cong C9 \times Q8$  $W_3 = Group([(10,11,13,15)(12,17,16,14),(10,12,13,16)(11,14,15,17),(1,6,2,7,3,8,4,9,5),(10,13)(11,15)(12,16)(14,17),(1,7,4)(2,8,5)(3,9,6)]) \cong C9 \times Q_3 = Q$  $N_4 = Group([(10, 11, 13, 15)(12, 17, 16, 14), (10, 12, 13, 16)(11, 14, 15, 17), (1, 6, 2, 7, 3, 8, 4, 9, 5), (10, 13)(11, 15)(12, 16)(14, 17), (1, 7, 4)(2, 8, 5)(3, 9, 6)]) \cong \mathbf{C9} \times \mathbf{Q8}$  $N_5 = Group([(10,11,13,15)(12,17,16,14),(10,12,13,16)(11,14,15,17),(1,6,2,7,3,8,4,9,5),(10,13)(11,15)(12,16)(14,17),(1,7,4)(2,8,5)(3,9,6)]) \cong \mathbf{C9} \times \mathbf{Q8}$ 

 $N_6 = Group([(10, 11, 13, 15)(12, 17, 16, 14), (10, 12, 13, 16)(11, 14, 15, 17), (1, 6, 2, 7, 3, 8, 4, 9, 5), (10, 13)(11, 15)(12, 16)(14, 17), (1, 7, 4)(2, 8, 5)(3, 9, 6)]) \cong \mathbf{C9} \times \mathbf{Q8}$