To To To To To To To To	1
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 1 1 1 1 1 1 1 1 1
$ \begin{array}{c} 3 \\ 1 \\ 2 \\ 2 \\ 3 \\ 3 \\ 4 \\ 4 \\ 4 \\ 4 \\ 5 \\ 5 \\ 6 \\ 5 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{c} 30 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ $
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$\begin{bmatrix} \chi_{42} \\ \chi_{43} \\ 1 \\ E(4) \\ $

Trivial source character table of $G \cong C12 \times C4$ at $p = 2$:																
Normalisers N_i	N_1	N_2	N_3	N_4	N_5	N_6	N_7	N_8	N_9	N_1)	N_{11}	N_{12}	N_{13}	N_{14}	N_{15}
p-subgroups of G up to conjugacy in G	P_1	P_2	P_3	P_4	P_5	P_6	P_7	P_8	P_9	P_1)	P_{11}	P_{12}	P_{13}	P_{14}	P_{15}
Representatives $n_i \in N_i$ 1a	3a $3b$ $1a$	3a $3b$ $1a$	3a $3b$	1a $3a$ $3b$	1a 3a 3b	1a $3a$ $3b$	1a 3a 3b	1a $3a$ $3b$	1a $3a$ 3	3b $1a$ $3a$	3b $1a$ $3a$	3b $1a$	3a $3b$ $1a$	3a $3b$	1a $3a$ $3b$	1a 3a 3b
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{29} + 0 \cdot \chi_{21} + 0 \cdot $	16 16 0	0 0 0	0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0	0 0	0 0 0	0 0	0 0 0	0 0	0 0 0	0 0 0
$\boxed{0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_4 + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 1 \cdot \chi_{21} + 1 \cdot \chi_{22} + 1 \cdot \chi_{23} + 1 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_$	$16 * E(3)^2$ $16 * E(3)$ 0	$0 \qquad 0 \qquad 0$	0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0	0 0	$0 \qquad 0 \qquad 0$	0 0	$0 \qquad 0 \qquad 0$	0 0	0 0 0	0 0 0
$\boxed{0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_{29} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{22} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} +$	$16 * E(3)$ $16 * E(3)^2$ 0	$0 \qquad 0 \qquad 0$	0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0	0 0	$0 \qquad 0 \qquad 0$	0 0	$0 \qquad 0 \qquad 0$	0 0	0 0 0	0 0 0
$\boxed{1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_{40} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot$	8 8 8	8 8 0	0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0	0 0	0 0 0	0 0	0 0 0	0 0	0 0 0	0 0 0
$ \left \begin{array}{cccccccccccccccccccccccccccccccccccc$		$8 * E(3)$ $8 * E(3)^2$ 0	0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0	$0 \qquad 0$	$0 \qquad 0 \qquad 0$	0 0	$0 \qquad 0 \qquad 0$	0 0	0 0 0	0 0 0
$\boxed{0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 1 \cdot \chi_{22} + 1 \cdot \chi_{23} + 1 \cdot \chi_{24} + 0 \cdot \chi_{35} + 0 \cdot \chi_{36} + 0 \cdot \chi_{37} + 0 \cdot \chi_{36} + 0 \cdot \chi_{37} + 0 \cdot \chi_{38} + 0 \cdot \chi_{39} + 0 \cdot \chi_{40} + 0 \cdot \chi_{41} + 0 \cdot \chi_{45} + 0 \cdot \chi_{46} + 0 \cdot \chi_{47} + 0 \cdot \chi_{48} + 0 \cdot \chi_{47} + 0 \cdot \chi_{48} + 0 \cdot \chi_{49} + 0 \cdot \chi_$	$8 * E(3)^2$ $8 * E(3)$ 8	$8*E(3)^2$ $8*E(3)$ 0	0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0	0 0	0 0 0	0 0	0 0 0	0 0	0 0 0	0 0 0
$\left 1 \cdot \chi_{1} + 1 \cdot \chi_{2} + 1 \cdot \chi_{3} + 1 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{$	8 8 0	0 0 8	8 8	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0	$0 \qquad 0$	$0 \qquad 0 \qquad 0$	$0 \qquad \qquad 0$	$0 \qquad 0 \qquad 0$	0 0	0 0 0	0 0 0
$ \left \begin{array}{cccccccccccccccccccccccccccccccccccc$		0 0 8	$8 * E(3)$ $8 * E(3)^2$	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0	$0 \qquad 0$	$0 \qquad 0 \qquad 0$	$0 \qquad \qquad 0$	$0 \qquad 0 \qquad 0$	0 0		0 0 0
$\boxed{0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21$	$8*E(3)^2$ $8*E(3)$ 0	0 0 8	$8*E(3)^2$ $8*E(3)$	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0	0 0 0	0 0 0	0 0	0 0 0	0 0	0 0 0	0 0 0
$ \begin{vmatrix} 1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \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} +$	8 8 0	$0 \qquad 0 \qquad 0$	0 0	8 8 8	0 0 0	$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$	0 0 0	0 0 0	0 0	$\begin{bmatrix} 0 & 0 & 0 \end{bmatrix}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$0 \qquad 0$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0	0 0 0	$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$
$ \begin{vmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 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_{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} $		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0	8 8 * E(3) 8 * E(3)	0 0 0	$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$	0 0 0	0 0 0	$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$	$\begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c} 0 & 0 \\ 0 & 0 \end{array}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0		$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$
$\boxed{0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_{44} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot$	$8*E(3)^2$ $8*E(3)$ 0	0 0 0	0 0	$8 8 * E(3)^2 8 * E(3)$	0 0 0	0 0 0	0 0 0	0 0 0	0 0	$0 \qquad 0 \qquad 0$	0 0 0	0 0	0 0 0	0 0	0 0 0	0 0 0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \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_{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 $	4 4 4	4 4 4	4 4	4 4 4	4 4 4	$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$			$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$	$\begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}$	$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$	$0 \qquad 0$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0	0 0 0	$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$
$ \begin{vmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 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_{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} $	$4*E(3)$ $4*E(3)^2$ 4	$4*E(3)$ $4*E(3)^2$ 4	$4*E(3)$ $4*E(3)^2$	4 4 * E(3) 4 * E(3)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$				$\begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}$	$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$	$\begin{bmatrix} 0 \\ 0 \end{bmatrix}$	$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$	0 0	0 0	$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$
$ \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_{44} + 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 $	$4*E(3)^2$ $4*E(3)$ 4	$4*E(3)^2$ $4*E(3)$ 4	$4*E(3)^2$ $4*E(3)$	$\frac{4}{0} \frac{4*E(3)^2}{0} \frac{4*E(3)}{0}$	$\frac{4}{0} \frac{4*E(3)^2}{0} \frac{4*E(3)}{0}$	0 0 0	0 0 0	0 0 0	0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0 0	0 0	0 0 0	0 0	0 0 0	0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \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_{16} + 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_{21} + 0 $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$4 \qquad 4$ $4 \cdot E(2)^2 4 \cdot E(2)$			$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{pmatrix}$					0 0		0 0		$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$
$\begin{vmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_{44} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{21} + 0 \cdot$	$4*E(3)^2$ $4*E(3)$ 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$4*E(3)^2$ $4*E(3)$ $4*E(2)$ $4*E(2)^2$			$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{pmatrix} 3 \\ 2 \end{pmatrix}^2 \begin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{pmatrix}$					0 0		0 0		
$ \begin{vmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_{44} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 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 $	$\frac{4*E(3)}{4}$ $\frac{4*E(3)}{4}$ 0	0 0 4	$\frac{4*E(3)}{4*E(3)}$	0 0 0	0 0 0	$\frac{4}{0}$ $\frac{4*E(3)}{0}$ $\frac{4*E(4)}{0}$	$\frac{1}{2}$	0 0 0	0 0	0 0 0	0 0 0	0 0	0 0 0	0 0	0 0 0	$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$
$\begin{vmatrix} 1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_{44} + 0 \cdot \chi_{5} + 0 \cdot \chi_{46} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{11} + 0 \cdot $	$A + F(3)^2 \qquad A + F(3) \qquad 0$		$A + F(2)^2 \qquad A + F(2)$				$A = A + F(2)^2 + A + F(3)^2 +$	3) 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_{44} + 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_{21} + 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} + 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_{21} + 0 \cdot \chi_{21} + 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} + 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_{27} + 0 \cdot \chi_{28} + 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_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 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_{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_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 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} + 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_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 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_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 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_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 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_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot$		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$A * E(3)$ $A * E(3)^2$				$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\frac{3}{8}$ $\frac{3}{2}$ $\frac{3}$				0 0		0 0		$\begin{bmatrix} 0 & 0 & 0 \\ 1 & 0 & 0 \end{bmatrix}$
$\frac{0 \cdot \chi_{11} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 1 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{11} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_$	$A \qquad A \qquad A$	4 4 0	$\frac{1+L(0)}{0} \frac{1+L(0)}{0}$	0 0 0	0 0 0	0 0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\frac{1}{4}$	0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0 0	0 0	0 0 0	0 0		$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$
$\begin{vmatrix} 1 \cdot \chi_{11} + 1 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{46} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 1 \cdot \chi_{12} + 0 \cdot \chi_{31} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{31} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{38} + 0 \cdot \chi_{31} + 0 \cdot \chi_{11} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{11} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi$	$4*E(3)^2$ $4*E(3)$ 4	$4 * E(3)^2 4 * E(3) 0$	0 0					$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	3) $\begin{vmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{vmatrix}$			0 0		0 0		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		$4*E(3)$ $4*E(3)^2$ 0	0 0					4 4 * E(3) 4 * E(3)	$\frac{3}{3}$ $\frac{1}{2}$ $\frac{3}{0}$ $\frac{3}{0}$		$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$	0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0	$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$	$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$
$\frac{1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 1 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi$	4 4 4	4 4 0	0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	$\frac{3}{4}$ $\frac{3}{4}$ $\frac{3}{4}$	$\frac{3}{4}$ 0 0	0 0 0	0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0	0 0 0	$\begin{bmatrix} 0 & 0 & 0 \\ \hline 0 & 0 & 0 \end{bmatrix}$
$\begin{vmatrix} 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 $	$4*E(3)^2$ $4*E(3)$ 4	$4*E(3)^2$ $4*E(3)$ 0	0 0	$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$	0 0 0	$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$	0 0 0	0 0 0	$4 4 * E(3)^2 4 * I$	$E(3) \mid 0 \qquad 0$	$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$	$0 \qquad 0$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0 0	0 0 0	$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{19} + 1 \cdot \chi_{29} + 0 \cdot \chi_{31} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{31} + 0 \cdot \chi_{41} + 0 \cdot \chi_{42} + 0 \cdot \chi_{43} + 0 \cdot \chi_{44} + 0 \cdot \chi_{45} + 0 \cdot \chi_{46} + 0 \cdot \chi_{47} + 0 \cdot \chi_{48} + 0 \cdot \chi_{49} + 0 \cdot \chi_{41} + 0 \cdot \chi_{42} + 0 \cdot \chi_{43} + 0 \cdot \chi_{44} + 0 \cdot \chi_{45} + 0 \cdot \chi_{46} + 0 \cdot \chi_{47} + 0 \cdot \chi_{48} + 0 \cdot \chi_{49} + 0 \cdot \chi_{4$	` '	$4*E(3)$ $4*E(3)^2$ 0	0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	4 4 * E(3) 4 * E(3)	$E(3)^2 \mid 0 = 0$	0 0 0	0 0	0 0 0	0 0	0 0 0	$\begin{bmatrix} 0 & 0 & 0 \end{bmatrix}$
$\frac{1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_$	4 4 0	0 0 0	0 0	4 4 4	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 4 4	4 0 0	0 0	0 0 0	0 0	0 0 0	0 0 0
$0 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{10} + 0 \cdot \chi_{10} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{27} + 0 \cdot \chi_{27$	$4*E(3)^2$ $4*E(3)$ 0	$0 \qquad 0 \qquad 0$	0 0	$4 4 * E(3)^2 4 * E(3)^2$	0 0 0	0 0 0	0 0 0	0 0 0	0 0	$0 4 4*E(3)^2$	4*E(3) = 0 0	0 0	$0 \qquad 0 \qquad 0$	0 0	0 0 0	0 0 0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_4 + 1 \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_{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_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{26} + 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_{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_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{27} $	$4*E(3)$ $4*E(3)^2$ 0	$0 \qquad 0 \qquad 0$	0 0	4 4 * E(3) 4 * E(3)	0 0 0	0 0 0	0 0 0	0 0 0	0 0	$0 \qquad \boxed{4} 4*E(3)$	$4*E(3)^{2} \mid 0 \qquad 0$	0 0	$0 \qquad 0 \qquad 0$	0 0	0 0 0	$\begin{bmatrix} 0 & 0 & 0 \end{bmatrix}$
$1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 1 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21$	4 4 0	0 0 0	0 0	4 4 4	0 0 0	0 0 0	0 0 0	0 0 0	0 0	0 0	0 4 4	4 0	0 0 0	0 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_6 + 0 \cdot \chi_{10} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \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$	$4*E(3)^2$ $4*E(3)$ 0	$0 \qquad 0 \qquad 0$	0 0	$4 4 * E(3)^2 4 * E(3)$	0 0 0	0 0 0	0 0 0	0 0 0	0 0	$0 \qquad 0$	$0 \qquad 4 4*E($	$(3)^2 4 * E(3) 0$	$0 \qquad 0 \qquad 0$	0 0	0 0 0	0 0 0
$\boxed{0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_{40} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{22} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot$		$0 \qquad 0 \qquad 0$	0 0	4 4 * E(3) 4 * E(3)	0 0 0	0 0 0	0 0 0	0 0 0	0 0	0 0	$0 \qquad 4 4*E$	(3) $4*E(3)^2 \mid 0$	$0 \qquad 0 \qquad 0$	0 0	0 0 0	0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{2$	2 2 2	2 2 2	2 2	2 2 2	2 2 2	2 2 2	2 2 2	0 0 0	0 0 (0 0	0 0 0	0 2	2 2 0	0 0	0 0 0	0 0 0
$ \left \begin{array}{cccccccccccccccccccccccccccccccccccc$	$2 * E(3)$ $2 * E(3)^2$ 2	$2 * E(3) 2 * E(3)^2 2$	$2 * E(3)$ $2 * E(3)^2$	2 2 * E(3) 2 * E(3)	2 2 * E(3) 2 * E(3)	2 2 * E(3) 2 * E(3)	$(3)^2 \mid 2 = 2 * E(3) = 2 * E(3)$	$(3)^2 \mid 0 \qquad 0 \qquad 0$	0 0	$0 \qquad 0$	$0 \qquad 0 \qquad 0$	$0 \qquad \qquad 2 \qquad 2$	$*E(3) 2*E(3)^2 0$	0 0	0 0 0	0 0 0
$\boxed{0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_{40} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot$	$2 * E(3)^2$ $2 * E(3)$ 2	$2 * E(3)^2 2 * E(3) 2$	$2 * E(3)^2 2 * E(3)$	$2 2 * E(3)^2 2 * E(3)^2$	$2 2 * E(3)^2 2 * E(3)$	$2 2 * E(3)^2 2 * E(3)^2$	(3) $2 \cdot 2 \cdot E(3)^2 \cdot 2 \cdot E(3)$	3) 0 0 0	0 0	0 0	0 0 0	0 2 2:	$*E(3)^2 2*E(3) 0$	0 0	0 0 0	0 0 0
$\left 1 \cdot \chi_{1} + 1 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_$	2 2 2	2 2 2	2 2	2 2 2	2 2 2	0 0 0	0 0 0	2 2 2	2 2	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$0 \qquad 0 \qquad 0$	0 0	$0 \qquad 0 \qquad 2$	2 2	0 0 0	0 0 0
$\left \begin{array}{cccccccccccccccccccccccccccccccccccc$	$2*E(3)$ $2*E(3)^2$ 2	$2*E(3)$ $2*E(3)^2$ 2	$2*E(3)$ $2*E(3)^2$	2 * E(3) 2 * E(3)	2 2 * E(3) 2 * E(3)	0 0 0	0 0 0	2 2 * E(3) 2 * E(3)	$(3)^2 \mid 2 2*E(3) 2*E(3)$	$E(3)^2 \mid 0 = 0$	$0 \qquad 0 \qquad 0$	0 0	$0 \qquad 0 \qquad 2$	$2 * E(3)$ $2 * E(3)^2$	0 0 0	0 0 0
$\boxed{0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_{44} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot$	$2*E(3)^2$ $2*E(3)$ 2	$2 * E(3)^2 2 * E(3) 2$	$2*E(3)^2$ $2*E(3)$	$2 2 * E(3)^2 2 * E(3)$	$2 2 * E(3)^2 2 * E(3)$	0 0 0	0 0 0	$2 2*E(3)^2 2*E(3)^2$	3) $2 \cdot 2 * E(3)^2 \cdot 2 * E(3)^3 \cdot 2 * E(3)^$	E(3) 0 0	0 0 0	0 0	0 0 2	$2*E(3)^2$ $2*E(3)$	0 0 0	0 0 0
$\left 1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 1 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2 2	2 2 2	2 2 2	0 0 0	0 0 0	0 0 0	0 0	$0 \qquad 2 \qquad 2$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c} 2 & 0 \end{array}$	$0 \qquad 0 \qquad 0$	0 0	2 2 2	0 0 0
$ \begin{vmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_{44} + 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 $	$2*E(3)$ $2*E(3)^2$ 2	$2 * E(3)$ $2 * E(3)^2$ 2	$2 * E(3)$ $2 * E(3)^2$	2 2 * E(3) 2 * E(3)	2 2 * E(3) 2 * E(3)	0 0 0	0 0 0	0 0 0	0 0	$0 \qquad \qquad 2 * E(3)$	$2 * E(3)^2 \mid 2 = 2 * E$	$(3) 2*E(3)^2 \mid 0$	$0 \qquad 0 \qquad 0$	0 0	$2 * E(3) 2 * E(3)^2$	0 0 0
$\boxed{0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_{44} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot$	$2*E(3)^2$ $2*E(3)$ 2	$2*E(3)^2$ $2*E(3)$ 2	$2*E(3)^2$ $2*E(3)$	$2 2 * E(3)^2 2 * E(3)^2$	$2 2 * E(3)^2 2 * E(3)$	0 0 0	0 0 0	0 0 0	0 0	$0 2 2 * E(3)^2$	2*E(3) 2 $2*E($	$(3)^2 2*E(3) 0$	0 0 0	0 0	$2 2 * E(3)^2 2 * E(3)$	0 0 0
$1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{10} + 0 \cdot \chi_{10} + 0 \cdot \chi_{10} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{22} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{22$	$\frac{1}{\Gamma(\alpha)^2}$ $\frac{1}{\Gamma(\alpha)}$ $\frac{1}{\Gamma(\alpha)}$	$\frac{1}{\mathbf{F}(\mathbf{a})^2}$ $\frac{1}{\mathbf{F}(\mathbf{a})}$	$\frac{1}{2}$	$\begin{bmatrix} 1 & 1 & 1 \\ 1 & 7(0)^2 & 7(0) \end{bmatrix}$	$\begin{bmatrix} 1 & 1 & 1 \\ 1 & 1 & 1 \end{bmatrix}$	$\begin{bmatrix} 1 & 1 & 1 \\ 1 & 1 & 2 \end{bmatrix}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$	$\begin{bmatrix} 1 & 1 \\ 1 & 7 & 2 \end{bmatrix}$	$\begin{pmatrix} 1 & 1 & 1 \\ 1 & 1 & 7 \end{pmatrix}$	$\frac{1}{\Gamma(2)}$ $\frac{1}{1}$ $\frac{1}{\Gamma(3)}$	$\frac{1}{R(0)}$	$\frac{1}{\Gamma(2)^2}$ $\frac{1}{\Gamma(2)}$ $\frac{1}{\Gamma(2)}$	$\frac{1}{\pi(a)^2}$	$\begin{bmatrix} 1 & 1 & 1 \\ 1 & 1 & 2 \end{bmatrix}$	$\begin{bmatrix} 1 & 1 & 1 \\ 1 & 1 & 2 \end{bmatrix}$
$ \begin{vmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 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} +$	$E(3)^2$ $E(3)$ 1	$E(3)^2$ $E(3)$ 1	$E(3)^2$ $E(3)$	$E(3)^2$ $E(3)$	$E(3)^2$ $E(3)$	$\frac{1}{1}$ $\frac{E(3)^2}{E(2)}$ $\frac{E(3)}{E(3)}$	$\frac{1}{2} = \frac{1}{1} = \frac{E(3)^2}{E(3)} = \frac{E(3)}{E(3)}$	$\frac{1}{2} = \frac{E(3)^2}{1} = \frac{E(3)^2}{E(3)} = \frac{E(3)^2}{E(3)}$	$\begin{bmatrix} 1 & E(3)^2 & E(3)^2 & E(3)^2 \end{bmatrix}$	$(3) 1 E(3)^2$	$E(3) = \frac{1}{1} = \frac{E(3)}{1}$	E(3) 1	$E(3)^{*}$ $E(3)$ 1	$E(3)^2$ $E(3)$	(/	$\begin{bmatrix} 1 & E(3)^2 & E(3) \\ 1 & E(2) & E(3)^2 \end{bmatrix}$
$\boxed{0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_{40} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot$	$E(3)$ $E(3)^2$ 1	$E(3)$ $E(3)^2$ 1	$E(3)$ $E(3)^2$	1 $E(3)$ $E(3)^2$	$E(3)$ $E(3)^2$	E(3) $E(3)$	$\stackrel{\sim}{=} 1 E(3) E(3)$	E(3)	E(3)	E(3) 1 $E(3)$	$E(3)^{*} \mid 1 = E(3)^{*}$	$E(3)^2 = 1$	$E(3)$ $E(3)^2$ 1	$E(3)$ $E(3)^2$	1 $E(3)$ $E(3)^2$	$1 E(3) E(3)^2$

$$\begin{split} P_1 &= Group([()]) \cong 1 \\ P_2 &= Group([(4,6)(5,7)]) \cong \text{C2} \\ P_3 &= Group([(8,10)(9,11)]) \cong \text{C2} \\ P_4 &= Group([(4,6)(5,7)(8,10)(9,11)]) \cong \text{C2} \\ P_5 &= Group([(8,10)(9,11),(4,6)(5,7)]) \cong \text{C2} \times \text{C2} \\ P_6 &= Group([(8,9,10,11),(8,10)(9,11)]) \cong \text{C4} \\ P_7 &= Group([(4,6)(5,7)(8,9,10,11),(8,10)(9,11)]) \cong \text{C4} \\ P_8 &= Group([(4,5,6,7),(4,6)(5,7)]) \cong \text{C4} \\ P_9 &= Group([(4,5,6,7)(8,10)(9,11),(4,6)(5,7)]) \cong \text{C4} \\ P_{10} &= Group([(4,5,6,7)(8,9,10,11),(4,6)(5,7)(8,10)(9,11)]) \cong \text{C4} \\ P_{11} &= Group([(4,7,6,5)(8,9,10,11),(4,6)(5,7)(8,10)(9,11)]) \cong \text{C4} \\ P_{12} &= Group([(8,10)(9,11),(4,6)(5,7),(8,9,10,11)]) \cong \text{C4} \times \text{C2} \\ P_{13} &= Group([(8,10)(9,11),(4,6)(5,7),(4,5,6,7)]) \cong \text{C4} \times \text{C2} \\ P_{14} &= Group([(8,10)(9,11),(4,6)(5,7),(4,5,6,7)(8,9,10,11)]) \cong \text{C4} \times \text{C2} \\ P_{15} &= Group([(8,10)(9,11),(4,6)(5,7),(8,9,10,11),(4,5,6,7)]) \cong \text{C4} \times \text{C4} \end{split}$$

 $P_{14} = Group([(3,10)(9,11),(4,0)(5,7),(4,3,0,7)(6,3,10,11)]) \\ P_{15} = Group([(8,10)(9,11),(4,6)(5,7),(8,9,10,11)]) \cong C12 \times C4 \\ N_2 = Group([(1,2,3),(4,5,6,7),(8,9,10,11)]) \cong C12 \times C4 \\ N_3 = Group([(1,2,3),(4,5,6,7),(8,9,10,11)]) \cong C12 \times C4 \\ N_4 = Group([(1,2,3),(4,5,6,7),(8,9,10,11)]) \cong C12 \times C4 \\ N_5 = Group([(1,2,3),(4,5,6,7),(8,9,10,11)]) \cong C12 \times C4 \\ N_6 = Group([(1,2,3),(4,5,6,7),(8,9,10,11)]) \cong C12 \times C4 \\ N_7 = Group([(1,2,3),(4,5,6,7),(8,9,10,11)]) \cong C12 \times C4 \\ N_8 = Group([(1,2,3),(4,5,6,7),(8,9,10,11)]) \cong C12 \times C4 \\ N_9 = Group([(1,2,3),(4,5,6,7),(8,9,10,11)]) \cong C12 \times C4 \\ N_{10} = Group([(1,2,3),(4,5,6,7),(8,9,10,11)]) \cong C12 \times C4 \\ N_{11} = Group([(1,2,3),(4,5,6,7),(8,9,10,11)]) \cong C12 \times C4 \\ N_{12} = Group([(1,2,3),(4,5,6,7),(8,9,10,11)]) \cong C12 \times C4 \\ N_{13} = Group([(1,2,3),(4,5,6,7),(8,9,10,11)]) \cong C12 \times C4 \\ N_{14} = Group([(1,2,3),(4,5,6,7),(8,9,10,11)]) \cong C12 \times C4 \\ N_{14} = Group([(1,2,3),(4,5,6,7),(8,9,10,11)]) \cong C12 \times C4 \\ N_{15} = Group([(1,2,3),(4,5,6,7),(8,9,10,11)$