	$\begin{array}{ c cccccccccccccccccccccccccccccccccc$	$\frac{4}{2}$ $\frac{2}{2}$ $\frac{-2}{2}$ $\frac{0}{2}$ $\frac{0}{2}$	0 0 0 2*E	(4) -2 * E(4)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0 0 0	0 0 2	2*E(4) $-2*E(4)$	-2 0	0 0	0 $-2*E(4)$	0								
	$ \chi_{27} 2 0 0 -2*E$	$E(4) 2*E(3)^2 -2 0 0$	0 0 0 $-2*E($	$(12)^{11} 2 * E(4)$	$2*E(3)$ $-2*E(3)^2$ 0	0 0 0	0 0 -2	$2*E(12)'$ $2*E(12)^{11}$	-2*E(3) 0	0 0	0 $2*E(12)'$	0								
	1 1 2 5 1 - 5 5	E(4) 2 * E(3) -2 0 0	· · · · · · · · · · · · · · · · · · ·	(12)' $2*E(4)$	$2*E(3)^2$ $-2*E(3)$ 0	0 0 0	0 0 -2	$2*E(12)^{11}$ $2*E(12)^{1}$	$-2*E(3)^2$ 0	0 0	$0 2 * E(12)^{11}$	0								
			0 0 $0 * E(1)$			0 0 0	$0 \qquad 0 \qquad 2$	$*E(12)^{7}$ $-2*E(12)^{1}$	-2*E(3) 0	0 0	$0 -2 * E(12)^7$	0								
	$\chi_{30} \mid 2 0 0 2 * E($	(4) 2 * E(3) -2 0 0	0 0 0 2*E($(12)^7 -2 * E(4)$	$2 * E(3)^2 - 2 * E(3) = 0$	0 0 0	0 0 2:	$*E(12)^{11} -2*E(12)$	$7 -2 * E(3)^2 0$	0 0	$0 -2 * E(12)^{11}$	1 0								
$\Pi: \mathbb{I} \longrightarrow \mathbb{I}$																				
Trivial source character table of $G \cong C3 \times ((C4 \times C2) : C2)$ at $p = 2$:	37	27	2.7	3.7	77	2.7	3.7	3.7	27	3.7		3.7	3.7	3.7	3.7	27	27		27	
Normalisers N_i p -subgroups of G up to conjugacy in G	N_1 N_2	N_3	N_4	N_5	N_6	N_7	N_8	N_9	N_{10}	N_{11}		N_{12}	N_{13}	N_{14}	N_{15}	N_{16}	N ₁₇	N ₁₈	N_{19}	N_{20}
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_{10}	P_{11}		P_{12}	P_{13}	P_{14}	P_{15}	P_{16}	P_{17}	P_{18}	P_{19}	P_{20}
Representatives $n_j \in N_i$	3a $3b$ $1a$ $3a$ $3b$	1a $3a$ $3b$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3a $3b$	1a 3a 3b	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	a = 3a = 3b	1a 3a 3b	1a $3a$ $3b$	b $1a$ $3a$	3b $1a$ $3a$	$\frac{a}{b} = \frac{1a}{b}$	3a $3b$ $1a$	3a 3b	a 3a 3b	1a $3a$ $3b$	1a 3a 3b	1a $3a$	3b $1a$ $3a$	3b $1a$ $3a$ 3
$ \left[1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 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} + 2 \cdot \chi_{25} + 2 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{29} + 0 \cdot \chi_{29} + 0 \cdot \chi_{20} \right] $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0 0	$0 \qquad 0 \qquad 0 \qquad 0$	0 0		$0 \qquad 0 \qquad 0 \qquad 0$	0 0	0 0 0	0 0 0	0 0	0 0 0	$0 \qquad 0$	$0 \qquad 0 \qquad 0$	0 0	0 0	0 0 0	0 0 0	0 0	$0 \qquad \mid 0 \qquad 0$	0 0 0
$ \left \begin{array}{cccccccccccccccccccccccccccccccccccc$		0 0 0	$0 \qquad 0 \qquad 0 \qquad 0$	0 0		$0 \qquad 0 \qquad 0 \qquad 0$	0 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	$0 \qquad 0$	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_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 1 \cdot \chi_{18} + 0 \cdot \chi_{21} + 1 \cdot \chi_{22} + 0 \cdot \chi_{23} + 1 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 2 \cdot \chi_{28} + 0 \cdot \chi_{29} + 2 \cdot \chi_{30}} \ \ 16 \ \$	$6*E(3) 16*E(3)^2 \mid 0 0 0$	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 0	0 0 0	0 0	0 0 0	0 0 0
$\left 1 \cdot \chi_{1} + 1 \cdot \chi_{2} + 1 \cdot \chi_{3} + 1 \cdot \chi_{4} + 1 \cdot \chi_{5} + 1 \cdot \chi_{6} + 1 \cdot \chi_{7} + 1 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} \right \\ 8$	8 8 8 8	0 0 0	$0 \qquad 0 \qquad 0$	0 0		$0 \qquad 0 \qquad 0 \qquad 0$	0 0	$0 \qquad 0 \qquad 0$	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	$0 \qquad 0$	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_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 1 \cdot \chi_{18} + 0 \cdot \chi_{19} + 1 \cdot \chi_{22} + 0 \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_{29} + 0 \cdot \chi_{30} \right \ 8 $			$0 \qquad 0 \qquad 0$	0 0		$0 \qquad 0 \qquad 0 \qquad 0$	0 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	$0 \qquad 0$	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_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 0 \cdot \chi_{16} + 1 \cdot \chi_{17} + 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 \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} \right \ 8 - 8 \cdot \chi_{10} + \chi_$	$*E(3)^2 8*E(3) 8*E(3)^2 8*E(3)$	0 0 0	$0 \qquad 0 \qquad 0$	0 0		$0 \qquad 0 \qquad 0 \qquad 0$	0 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	$0 \qquad 0$	0 0 0
$ \left[1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 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_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 1 \cdot \chi_{25} + 1 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} \right] 8 $	8 8 0 0 0	4 4 4	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	$0 \qquad 0$	0 0 0
$ \left \begin{array}{cccccccccccccccccccccccccccccccccccc$		$4 4 * E(3)^2 4 * E(3)$	$0 \qquad 0 \qquad 0 \qquad 0$	0 0	0 0 0	$0 \qquad 0 \qquad 0 \qquad 0$	0 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	$0 \qquad 0$	0 0 0
$\left \ 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{21} + 1 \cdot \chi_{22} + 0 \cdot \chi_{23} + 1 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 1 \cdot \chi_{28} + 0 \cdot \chi_{29} + 1 \cdot \chi_{30} \right \ 8 - 8 - 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0$	$*E(3) 8*E(3)^2 0 0 0$	$4 4 * E(3) 4 * E(3)^2$	$0 \qquad 0 \qquad 0 \qquad 0$	0 0	0 0 0	$0 \qquad 0 \qquad 0 \qquad 0$	0 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	$0 \qquad 0 \qquad 0$	0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 1 \cdot \chi_{25} + 1 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} = 8$	8 8 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 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
$\left \begin{array}{cccccccccccccccccccccccccccccccccccc$		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 0	0 0 0	$0 \qquad 0$	$0 \qquad 0 \qquad 0$	0 0	0 0	$\begin{vmatrix} 0 & 0 & 0 \end{vmatrix}$	0 0 0	0 0	$0 \qquad 0$	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_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 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} + 1 \cdot \chi_{20} + 0 \cdot \chi_{21} + 1 \cdot \chi_{22} + 0 \cdot \chi_{23} + 1 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 1 \cdot \chi_{28} + 0 \cdot \chi_{29} + 1 \cdot \chi_{30} \end{vmatrix} $		0 0 0	$4 4 * E(3) 4 * E(3)^2 0$	0 0		0 0 0 0	0 0	0 0 0	0 0 0	0 0	0 0 0	$0 \qquad 0$	$0 \qquad 0 \qquad 0$	0 0	0 0	0 0 0	0 0 0	0 0	$0 \qquad 0 \qquad 0$	0 0 0
$\frac{1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 1 \cdot \chi_{25} + 1 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30}}{8}$	8 8 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 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
$\begin{vmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{16} + 1 \cdot \chi_{17} + 0 \cdot \chi_{16} + 1 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 1 \cdot \chi_{27} + 0 \cdot \chi_{28} + 1 \cdot \chi_{29} + 0 \cdot \chi_{30} \end{vmatrix} = 0$	$*E(3)^2 8*E(3) 0 0 0$	0 0	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 0	0 0	$0 \qquad 0 \qquad 0$	0 0	0 0	0 0 0	0 0 0	0 0	0 0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$\begin{vmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 1 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 1 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 1 \cdot \chi_{28} + 0 \cdot \chi_{29} + 1 \cdot \chi_{30} \end{vmatrix} = 8$			0 0 0 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 0	$0 \qquad 0 \qquad 0$	0 0	0 0	$\begin{vmatrix} 0 & 0 & 0 \end{vmatrix}$	0 0	0 0	0 0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	4 4 4 4 4	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 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0 0	0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$\begin{vmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 1 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 1 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} \end{vmatrix} = 0$	$*E(3)$ $4*E(3)^2$ $4*E(3)$ $4*E(3)^2$			0 0	$\begin{bmatrix} 1 & 4 & *E(3) & 4 & *E(3)^2 \end{bmatrix}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0 0	0 0 0	0 0	0 0	0 0 0	$0 \qquad 0$	$0 \qquad 0 \qquad 0$	0 0	$0 \qquad 0$			0 0	0 0 0	0 0 0
$\begin{vmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_{10} +$				0 0	$\begin{bmatrix} 4 & 4*E(3)^2 & 4*E(3) \end{bmatrix}$		0 0	$0 \qquad 0 \qquad 0$		0 0	0 0 0	$0 \qquad 0$	$0 \qquad 0 \qquad 0$	0 0	$0 \qquad 0$				0 0 0	0 0 0
$\frac{1}{1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 1 \cdot \chi_{4} + 1 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 1 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{$	$\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$	4 4 4		0 0		$\frac{3}{4}$ $\frac{3}{4}$ $\frac{4}{4}$ $\frac{0}{1}$	0 0	0 0 0	0 0 0	0 0	0 0 0	0 0	0 0 0	0 0	$\frac{0}{0}$	0 0 0	0 0 0		$\frac{0}{0}$ 0 0	
$ \begin{vmatrix} 1 & \chi_1 + 0 & \chi_2 + 0 & \chi_3 + 1 & \chi_4 + 1 & \chi_5 + 0 & \chi_6 + 0 & \chi_7 + 1 & \chi_8 + 0 & \chi_9 + 0 & \chi_{10} + 0 & \chi_{11} + 0 & \chi_{12} + 0 & \chi_{13} + 0 & \chi_{14} + 0 & \chi_{15} + 0 & \chi_{16} + 0 & \chi_{17} + 0 & \chi_{18} + 0 & \chi_{19} + 0 & \chi_{20} + 0 & \chi_{21} + 0 & \chi_{22} + 0 & \chi_{23} + 0 & \chi_{24} + 0 & \chi_{25} + 0 & \chi_{26} + 0 & \chi_{27} + 0 & \chi_{28} + 0 & \chi_{29} + 0 & \chi_{30} & 1 \\ 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_{11} + 0 \cdot \chi_{12} + 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_{30} & 1 \\ 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 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_{30} & 1 \\ 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} & 1 \\ 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot$	$*E(3)$ $A*E(3)^2$ $A*E(3)$ $A*E(3)^2$	$A = A * E(3) = A * E(3)^2$				$A = A * E(3) = A * E(3)^2 = 0$	0 0	0 0 0						0 0	0 0					$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \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_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} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 1 \cdot \chi_{21} + 0 \cdot \chi_{22} + 1 \cdot \chi_{23} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} \end{vmatrix} $		$A + E(3)^2 + E(3)$				$A + E(3)^2 + E(3) = 0$	0 0	0 0 0						0 0	0 0					$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$
$\frac{1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 1 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} + 4 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} + 0 \cdot \chi_{11} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 1 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{11} + 0 \cdot \chi_{11} + 0 \cdot \chi_{11} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{1$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		0 0		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	4 4	$\frac{0}{0}$		0 0	0 0 0	0 0	0 0 0	0 0	$\frac{0}{0}$	0 0 0	0 0 0			
$ \begin{vmatrix} 1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \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} + 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_{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_{30} + 0 \cdot \chi_{11} + 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_{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_{30} + 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_{30} + 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_{30} + 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_{30} + 0$				0 0			$A \star E(3) A \star E(3)^2$	0 0 0						0 0	0 0					$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \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_7 + 0 \cdot \chi_8 + 0 \cdot \chi_{29} + 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} + 1 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \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_{29} + 0 \cdot \chi_{30} + 0 \cdot \chi_{21} + 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_{30} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{11} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{11} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{12} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{11} + 0 \cdot \chi_{11} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{12} + 0 \cdot \chi_{12} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} $				0 0			$A \star F(3)^2 \qquad A \star F(3)$	0 0 0						0 0	0 0					$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$\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_{7} + 0 \cdot \chi_{8} + 1 \cdot \chi_{9} + 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} + 1 \cdot \chi_{17} + 0 \cdot \chi_{18} + 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 \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} + 4 \cdot \chi_{29} + 0 \cdot \chi_{30} + 4 \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_{30} + 4 \cdot \chi_{29} + 0 \cdot \chi_{30} + 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_{30} + 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_{30} + 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_{30} + 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_{30} + 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_{30} + 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_{30} + 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_{30} + 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_{30} + 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_{28}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0 0	4 4 4 0	0 0	0 0 0		$\frac{4*E(3)}{0}$	4 4 4	0 0 0	0 0	0 0 0	0 0	0 0 0	0 0	$\frac{0}{0}$	0 0 0	0 0 0			
$\begin{vmatrix} 1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} \end{vmatrix} = 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 1 \cdot \chi_{20} + 0 \cdot \chi_{21} + 1 \cdot \chi_{22} + 0 \cdot \chi_{23} + 1 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} \end{vmatrix} = 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 1 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 1 \cdot \chi_{22} + 0 \cdot \chi_{23} + 1 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} \end{vmatrix} = 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{11$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0 0			0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{pmatrix}$					0 0) 0 0					$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
			$4 + 4 \times E(3) + 4 \times E(3) + 0$	0 0			0 0	4 + 4 * E(3) + 4 * E(3)						0 0) 0 0					$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 1 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{19} + 0 \cdot \chi_{20} + 1 \cdot \chi_{21} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 1 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} \begin{vmatrix} 4 & 4 & 4 & 4 & 4 & 4 & 4 & 4 & 4 & 4$			$\frac{4}{0} \frac{4*E(3)}{0} \frac{4*E(3)}{0} \frac{0}{0}$	0 0	0 0 0		0 0	$\frac{4}{0} \frac{4*E(3)}{0} \frac{4*E(3)}{0}$	3) 0 0	0 0	0 0 0	0 0	0 0 0	0 0	$\frac{0}{0}$	0 0 0	0 0 0			
$1 \cdot \chi_{1} + 1 \cdot \chi_{2} + 0 \cdot \chi_{3} + 1 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 1 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} \right] 4$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			$\begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}$			0 0	0 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1(2)2 0 0	$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$		$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$	0 0	0 0					$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$
$ \begin{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_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \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_{29} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \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_{29} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21} + 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$				0 0			0 0	0 0 0	4 4*E(3) 4*E(4)	$\frac{1}{2}(3)^2 \mid 0 \qquad 0$	0 0 0		$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$	0 0						$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$
	$*E(3)^2$ $4*E(3)$ $4 *E(3)^2 4*E(3)$	0 0	0 0 0	0 0	0 0 0		0 0	0 0	$4 4 * E(3)^2 4 * E$	$\frac{\mathcal{E}(3)}{2}$	0 0 0	0 0	0 0 0	0 0	$\frac{0}{0}$	0 0 0	0 0 0	0 0	0 0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$1 \cdot \chi_{1} + 1 \cdot \chi_{2} + 1 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 1 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} \begin{vmatrix} 4 & 4 & 4 & 4 & 4 & 4 & 4 & 4 \\ 4 & 4 &$	$\frac{4}{5}$			0 0			0 0	0 0 0		4 4	$\frac{4}{4} 0 0$	$0 \qquad 0$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0	0 0				$\begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \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_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 1 \cdot \chi_{22} + 0 \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_{29} + 0 \cdot \chi_{30} \end{vmatrix} \ 4 $				0 0			0 0	0 0 0		4 4 * E(3)	$4*E(3)^2 = 0$	$0 \qquad 0$	$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$	0 0	0 0				$\begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}$	$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$
	$*E(3)^2$ $4*E(3)$ 4 $4*E(3)^2$ $4*E(3)$	0 0 0	0 0 0	0 0	0 0 0	0 0 0	0 0	0 0 0	0 0 0	$\frac{1}{2} \frac{4}{3} \frac{4 * E(3)^2}{3}$	4*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
$\left \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\frac{4}{5}$ $\frac{4}$		$0 \qquad 0 \qquad 0 \qquad 4$	4 4		0 0 0	0 0	0 0 0	0 0 0	0 0	0 4 4	$\frac{4}{2}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0	0 0	0 0 0	0 0 0	0 0	$0 \qquad 0 \qquad 0$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	* $E(3)$ 4 * $E(3)^2$ 4 4 * $E(3)$ 4 * $E(3)^2$		0 0 0 4 4 *	$*E(3) 4*E(3)^2$		0 0 0	0 0	0 0 0	0 0 0	0 0	$0 \qquad 4 \qquad 4*E$	$E(3) = 4 * E(3)^2 = 0$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0	0 0	0 0 0	0 0 0	0 0	$0 \qquad 0 \qquad 0$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
70- 70- 70- 70- 70- 70- 70- 70- 70- 70-	$*E(3)^2 4*E(3) 4 4*E(3)^2 4*E(3)$	0 0 0	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 0	$0 \qquad 4 4*E$	$(3)^2 4*E(3) 0$	0 0 0	0 0	0 0	0 0 0	0 0 0	0 0	0 0 0	0 0 0
$\left 1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 1 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} \right 2$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0 0		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0 0	2 2 2	0 0 0	$\begin{vmatrix} 2 & 2 \end{vmatrix}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$0 \qquad \ 2$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0	0 0	0 0 0	0 0 0	0 0	$0 \qquad 0$	0 0 0
$\left \begin{array}{cccccccccccccccccccccccccccccccccccc$	$*E(3)^2 2*E(3) 2*E(3)^2 2*E(3)$	$2 2 * E(3)^2 2 * E(3)$	$2 2 * E(3)^2 2 * E(3) \mid 0$	0 0		$2 2 * E(3)^2 2 * E(3) 0$	0 0	$2 2 * E(3)^2 2 * E(3)^2$	0 0	$2 2 * E(3)^2$	2*E(3) = 0 0	$0 \qquad 2 2 \rangle$	$E(3)^2 2*E(3) 0$	0 0	0 0	0 0 0	0 0 0	0 0	$0 \qquad 0$	$0 \qquad 0 \qquad 0$
$ \left[\begin{array}{c ccccccccccccccccccccccccccccccccccc$	* $E(3)$ 2 * $E(3)^2$ 2 * $E(3)$ 2 * $E(3)^2$	$2 2 * E(3) 2 * E(3)^2$	$2 2 * E(3) 2 * E(3)^2 0$	0 0	0 0 0	$2 2 * E(3) 2 * E(3)^2 0$	0 0	$2 ext{ } 2*E(3) ext{ } 2*E(3)$	$)^{2} \mid 0 \qquad 0 \qquad 0$	$0 \qquad 2 \qquad 2 * E(3) \qquad 3$	$2*E(3)^2 = 0$ 0	$0 \qquad \qquad 2 \qquad 2$	$*E(3) 2*E(3)^2 0$	0 0	0 0	0 0 0	0 0 0	0 0	0 0 0	0 0 0
$\left 1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 1 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} \right 2$	2 2 2 2 2	0 0 0	$2 \qquad 2 \qquad 0$	0 0		$0 \qquad 0 \qquad 0 \qquad 0$	0 0	$2 \qquad 2 \qquad 2$	2 2 2	0 0	0 0 0	0 0	$0 \qquad 0 \qquad 2$	2 2	0 0	0 0 0	0 0 0	0 0	$0 \qquad 0$	0 0 0
$ \left \begin{array}{cccccccccccccccccccccccccccccccccccc$	$*E(3)^2 2*E(3) 2*E(3)^2 2*E(3)$	0 0	$2 2 * E(3)^2 2 * E(3) \mid 0$	0 0	$2 2 * E(3)^2 2 * E(3)$	0 0 0 0	0 0	$2 2 * E(3)^2 2 * E(3)^2$	3) 2 $2*E(3)^2$ $2*E$	$E(3) \mid 0 \qquad 0$	0 0 0	0 0	$0 \qquad 0 \qquad 2$	$2*E(3)^2 2*E(3)$	0 0	0 0	0 0 0	0 0	0 0 0	$0 \qquad 0 \qquad 0$
70- 70- 70- 70- 70- 70- 70- 70- 70- 70-	* $E(3)$ 2 * $E(3)^2$ 2 * $E(3)$ 2 * $E(3)^2$	0 0	$2 2 * E(3) 2 * E(3)^2 0$	0 0	$2 2 * E(3) 2 * E(3)^2$	0 0 0	0 0	2 2 * E(3) 2 * E(3)	$)^2 \mid 2 2 * E(3) 2 * E(3)$	$C(3)^2 \mid 0 = 0$	0 0 0	0 0	$0 \qquad 0 \qquad 2$	$2 * E(3)$ $2 * E(3)^2$	0 0	0 0 0	0 0 0	0 0	0 0 0	0 0 0
$\boxed{1 \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_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 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 $	2 2 2 2	0 0	2 2 2 2	2	0 0	$0 \qquad 0 \qquad 0 \qquad 2$	2	$\overline{2}$ $\overline{2}$ $\overline{2}$	0 0	0 0	$0 \boxed{2} 2$	2 0	0 0	0 0	2 2 2	0 0	0 0	0 0	0 0 0	0 0 0
$ \left \begin{array}{cccccccccccccccccccccccccccccccccccc$	$*E(3)^2 2*E(3) 2 2*E(3)^2 2*E(3)$	0 0	$2 2 * E(3)^2 2 * E(3) \mid 2 2 *$	$E(3)^2 2 * E(3)$		$0 \qquad 0 \qquad 0 \qquad 2$	$2*E(3)^2$ $2*E(3)$	$2 2 * E(3)^2 2 * E(3)^2$	0 0 0	0 0	$0 \qquad 2 2*E$	$(3)^2 2 * E(3) \mid 0$	$0 \qquad 0 \qquad 0$	0 0	$2 \cdot 2 * E(3)^2 \cdot 2 * E(3)$	0 0	0 0 0	0 0	0 0 0	0 0 0
$ \left \begin{array}{cccccccccccccccccccccccccccccccccccc$	* $E(3)$ 2 * $E(3)^2$ 2 * $E(3)$ 2 * $E(3)^2$		$2 2 * E(3) 2 * E(3)^2 \mid 2 2 *$	$*E(3) 2*E(3)^2$		$0 \qquad 0 \qquad 0 \qquad 2$	$2*E(3)$ $2*E(3)^2$	2 2 * E(3) 2 * E(3)	$)^2 \mid 0 \qquad 0 \qquad 0$	0 0	$0 \qquad 2 2*E$	$E(3) 2 * E(3)^2 \mid 0$	$0 \qquad 0 \qquad 0$	0 0	2 * E(3) 2 * E(3)	$^{2} \mid 0 $	0 0 0	0 0	0 0 0	0 0 0
$1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 1 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} +$	2 2 2 2	2 2 2	0 0 0 0	0 0	2 2 2	2 2 2 2	2 2	0 0 0	0 0 0	0 0	0 0 0	0 0	0 0 0	0 0	0 0	2 2 2	0 0 0	0 0	0 0 0	0 0 0
$\left \begin{array}{cccccccccccccccccccccccccccccccccccc$	$*E(3)^2 2*E(3) 2 *E(3)^2 2*E(3)$	$2 2 * E(3)^2 2 * E(3)$	$0 \qquad 0 \qquad 0 \qquad 0$	0 0	$2 2 * E(3)^2 2 * E(3)$	$2 2 * E(3)^2 2 * E(3) \mid 2$	$2*E(3)^2$ $2*E(3)$	0 0 0	0 0 0	0 0	0 0 0	0 0	$0 \qquad 0 \qquad 0$	0 0	0 0	$2 2 * E(3)^2 2 * E($	$(3) \mid 0 \qquad 0 \qquad 0$	0 0	$0 \qquad 0$	0 0 0
	* $E(3)$ 2 * $E(3)^2$ 2 * $E(3)$ 2 * $E(3)^2$	$2 \times E(3) \times E(3)^2$	$0 \qquad 0 \qquad 0 \qquad 0$	0 0	$2 2 * E(3) 2 * E(3)^2$	2 $2*E(3)$ $2*E(3)^2$ 2	$2*E(3)$ $2*E(3)^2$	0 0 0	0 0 0	0 0	0 0 0	0 0	$0 \qquad 0 \qquad 0$	0 0	0 0	2 2 * E(3) 2 * E(3)	$(3)^2 \mid 0 \qquad 0 \qquad 0$	0 0	$0 \qquad 0$	0 0 0
$1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 1 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} \end{vmatrix} 2$	2 2 2 2	2 2 2	0 0 0 2	2 2	0 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0 0	0 0 0	2 2 2	2 0 0	0 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 \cdot y_1 + 0 \cdot y_2 + 0 \cdot y_3 + 0 \cdot y_4 + 0 \cdot y_5 + 0 \cdot y_6 + 0 \cdot $	$*E(3)^2 = 2*E(3) = 2*E(3)^2 = 2*E(3)$	$2 2 * E(3)^2 2 * E(3)$	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	$2 + 2 * E(3)^2 + 2 * E$	$\mathbb{E}(3) \mid 0 = 0$	$0 \qquad \qquad 2 * E$	$E(3)^2 = 2 * E(3) = 0$	0 0 0	0 0	0 0	$\downarrow 0$ 0 0	$2 \cdot 2 * E(3)^2 \cdot 2 * E(3)^2$	$(3) \perp 0 = 0$	0 0 0	0 0 0

 $\begin{vmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0$

 $\begin{vmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 1 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi$

 $\begin{bmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_{10} + 0$

1 E(3) $E(3)^2$ 1 $E(3)^2$ $-E(3)^2$ -E(3) $-E(3)^2$ -E(3)

1 $E(3)^2$ E(3) 1 E(3) -E(3) $-E(3)^2$ -E(3) $-E(3)^2$ $E(3)^2$

-1 $E(3)^2$ E(3) 1 -E(3) E(3) $-E(3)^2$ -E(3) $E(3)^2$ $-E(3)^2$

1 E(3) $E(3)^2$ -1 $-E(3)^2$ $-E(3)^2$ -E(3) E(3) E(3)

1 $E(3)^2$ E(3) -1 -E(3) -E(3) $-E(3)^2$ E(3) $E(3)^2$

1 E(3) $E(3)^2$ -1 $-E(3)^2$ $E(3)^2$ E(3) $-E(3)^2$ E(3)

-1 E(3) $E(3)^2$ 1 $-E(3)^2$ $E(3)^2$ -E(3) $-E(3)^2$ E(3) -E(3) $-E(3)^2$

-1 E(3) $E(3)^2$ 1 $-E(3)^2$ $-E(3)^2$ E(3) $E(3)^2$ -E(3) -E(3) $-E(3)^2$

1 $E(3)^2$ E(3) -1 -E(3) E(3) $E(3)^2$ -E(3) $-E(3)^2$ $E(3)^2$

E(3) $-E(3)^2$ E(3) E(3) E(3) -E(3) -E(3)

 $E(3)^2$ -E(3) $E(3)^2$ $E(3)^2$ $E(3)^2$ $-E(3)^2$ $-E(3)^2$

E(3) $E(3)^2$ E(3) -E(3) E(3) E(3)

 $E(3)^2$ E(3) $E(3)^2$ $-E(3)^2$ $-E(3)^2$ $E(3)^2$ $E(3)^2$

E(3) $E(3)^2$ -E(3) E(3) -E(3) E(3)

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E(3) $-E(3)^2$ -E(3) -E(3) E(3) E(3)

 $E(3)^2$ -E(3) $-E(3)^2$ $-E(3)^2$ $E(3)^2$ $E(3)^2$ $-E(3)^2$

E(3) $E(3)^2$ -E(3) -E(3) E(3) E(3)

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E(3) $-E(3)^2$ -E(3) E(3) -E(3) E(3) -E(3)

 $E(3)^2$ -E(3) $-E(3)^2$ $E(3)^2$ $-E(3)^2$ $E(3)^2$ $-E(3)^2$

E(3) $-E(3)^2$ E(3) -E(3) -E(3) -E(3)

 $E(3)^2$ -E(3) $E(3)^2$ $-E(3)^2$ $-E(3)^2$ $-E(3)^2$

-E(3)

 $E(3)^{2}$

E(3)

-E(3)

 $E(3)^{2}$

E(3)

 $E(3)^{2}$

 $1 \qquad E(3) \qquad E(3)^2 \qquad 1 \qquad E(3)^2 \qquad E(3) \qquad E(3)^2 \qquad E(3) \qquad E(3) \qquad E(3)^2 \qquad E(3) \qquad E(3)$

 $\chi_{22} \mid 1 \quad 1 \quad 1 \quad -1 \quad E(3) \quad 1 \quad 1 \quad -1 \quad E(3) \quad -1 \quad E(3) \quad -E(3) \quad -1 \quad E(3)^2 \quad E(3) \quad -1 \quad E(3) \quad -E(3) \quad E(3)^2 \quad -E(3) \quad -E(3)^2 \quad -E(3) \quad$

 $P_3 = Group([(1,3)(2,7)(4,11)(5,12)(6,13)(8,18)(9,19)(10,20)(14,25)(15,26)(16,27)(17,28)(21,32)(22,33)(23,34)(24,35)(29,39)(30,40)(31,41)(36,43)(37,44)(38,45)(42,47)(46,48)]) \cong \mathbb{C}_2$ $P_4 = Group([(1,2)(3,20)(4,8)(5,9)(6,10)(7,13)(11,33)(12,35)(14,21)(15,22)(16,23)(17,24)(18,26)(19,28)(25,44)(27,45)(29,36)(30,37)(31,38)(32,40)(34,41)(39,48)(42,46)(43,47)]) \cong \mathbb{C}_2$

 $P_2 = Group([(1,6)(2,10)(3,13)(4,15)(5,17)(7,20)(8,22)(9,24)(11,26)(12,28)(14,30)(16,31)(18,33)(19,35)(21,37)(23,38)(25,40)(27,41)(29,42)(32,44)(34,45)(36,46)(39,47)(43,48)]) \cong C2(3,23)(3,23$

 $P_{5} = Group([(1,33)(2,26)(3,8)(4,7)(5,44)(6,18)(9,40)(10,11)(12,21)(13,22)(14,19)(15,20)(16,48)(17,32)(23,47)(24,25)(27,36)(28,37)(29,34)(30,35)(31,43)(38,39)(41,46)(42,45)]) \cong \mathbb{C}_{2}$

 $P_7 = Group([(1,6)(2,10)(3,13)(4,15)(5,17)(7,20)(8,22)(9,24)(11,26)(12,28)(14,30)(16,31)(18,33)(19,35)(21,37)(23,38)(25,40)(27,41)(29,42)(32,44)(34,45)(36,46)(39,47)(43,48), (1,3)(2,7)(4,11)(5,12)(6,13)(8,18)(9,19)(10,20)(14,25)(15,26)(16,27)(17,28)(21,32)(22,33)(23,34)(24,35)(29,39)(30,40)(31,41)(36,43)(37,44)(38,45)(42,47)(46,48)]) \\ \cong C_2 \times C_2 \times C_3 \times C_3 \times C_3 \times C_4 \times$

 $P_8 = Group([(1,6)(2,10)(3,13)(4,15)(5,17)(7,20)(8,22)(9,24)(11,26)(12,28)(14,30)(16,31)(18,33)(19,35)(21,37)(23,38)(25,40)(27,41)(29,42)(32,44)(12,14,28,30)(16,39,31,47)(19,21,35,37)(23,48,48)(27,29,41,42)(34,36,45,46)]) \cong C4$ $P_9 = Group([(1,6)(2,10)(3,13)(4,15)(5,17)(7,20)(8,22)(9,24)(11,26)(12,28)(14,30)(16,31)(18,33)(19,35)(21,37)(23,38)(25,40)(27,41)(29,42)(32,44)(34,45)(36,46)(39,47)(43,48),(1,2)(3,20)(4,8)(5,9)(6,10)(7,13)(11,33)(12,35)(14,21)(15,22)(16,23)(17,24)(18,26)(19,28)(25,44)(27,45)(29,36)(30,37)(31,38)(32,40)(34,41)(39,48)(42,46)(43,47)] \\ \cong C_2 \times C_2 \times C_3 \times C_$

 $P_{10} = Group([(1,6)(2,10)(3,13)(4,15)(5,17)(7,20)(8,22)(9,24)(11,26)(12,28)(14,30)(16,31)(18,33)(19,35)(21,37)(23,38)(25,40)(27,41)(19,42,430)(12,44,28,32)(16,36,31,46)(19,40,35,25)(23,29,38,42)(27,48,41,43)(34,47,45,39)]) \cong C4$ $P_{11} = Group([(1,6)(2,10)(3,13)(4,15)(5,17)(7,20)(8,22)(9,24)(11,26)(12,28)(14,30)(16,31)(18,33)(19,35)(21,37)(23,38)(25,40)(27,41)(9,28,24,12)(14,44,30,32)(16,45,31,34)(21,40,37,25)(23,41,38,27)(29,48,42,43)(36,47,46,39)]) \cong C4$

 $P_{12} = Group([(1,6)(2,10)(3,13)(4,15)(5,17)(7,20)(8,22)(9,24)(11,26)(12,28)(14,30)(16,31)(18,33)(19,35)(21,37)(23,38)(25,40)(27,41)(29,42)(32,44)(34,45)(36,46)(39,47)(43,48), (1,33)(2,26)(3,44)(34,45)(36,46)(39,47)(43,48), (1,33)(2,26)(3,44)(34,45)(36,46)(39,47)(43,48), (1,33)(2,26)(3,47)(24,25)(27,36)(28,37)(29,34)(30,35)(31,43)(38,39)(41,46)(42,45)] \\ \cong C_{12} \times C$

 $1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot$

 $7_{14} = Group([(1,6)(2,10)(3,13)(4,15)(5,17)(7,20)(8,22)(9,24)(11,26)(12,38)(14,30)(16,31)(18,33)(19,35)(21,37)(23,38)(25,40)(27,41)(29,42)(32,44)(34,45)(36,46)(27,45)(29,36)(30,37)(21,38)(25,40)(27,41)(29,42)(32,44)(34,45)(36,46)(39,47)(43,48), \\ (1,2)(3,20)(4,8)(2,30)(4,30)(2,30)(4,8)(2,30)(4,8)(2,30)(4,8)(27,41)(29,42)(32,44)(34,45)(36,46)(39,47)(43,48), \\ (1,2)(3,20)(4,30)(4$ $F_{15} = Group([(1,6)(2,10)(3,13)(4,15)(5,17)(7,20)(8,22)(9,24)(11,26)(12,28)(14,30)(16,31)(18,33)(19,35)(21,37)(23,48)(27,41)(29,42)(34,46)(39,47)(43,48), (1,11,6,26)(2,18,10,33)(3,4,13,15)(5,25,17,40)(7,8,20,22)(9,32,44)(12,14,28,30)(16,31)(18,33)(19,35)(21,37)(23,48)(27,45)(29,40)(27,41)(29,42)(32,44)(27,45)(29,42)(32,44)(27,45)(29,42)(32,44)(27,45)(29,42)(32,44)(27,45)(29,42)(32,44)(27,45)(29,42)(32,44)(27,45)(29,42)(32,44)(27,45)(29,42)(32,44)(27,45)(29,42)(32,44)(27,45)(29,42)(32,44)(27,45)(29,42)(32,44)(32$

 $P_{16} = Group([(1,6)(2,10)(3,13)(4,15)(5,17)(7,20)(8,22)(9,24)(11,26)(15,26)(16,27)(17,28)(21,37)(23,38)(25,40)(27,31)(43,45)(5,17)(7,20)(8,22)(9,24)(11,26)(15,26)(16,27)(17,28)(21,37)(23,38)(25,40)(27,31)(23,34)(24,35)(29,32)(23,34)(24,35)(23,$ $P_{17} = Group([(1,6)(2,10)(3,13)(4,15)(5,17)(7,20)(8,22)(9,24)(11,26)(15,27)(4,10)(5,17)(7,20)(8,23)(23,34)(24,35)(29,34)(14,26)(15,27)(17,20)(8,22)(9,24)(11,26)(15,27)(17,20)(8,21)(17,20)(18,23)(19,35)(21,37)(23,38)(25,40)(27,41)(29,42)(21,32)(22,33)(23,34)(24,35)(29,34)(11,26)(12,28)(14,30)(16,31)(18,33)(19,35)(21,37)(23,38)(25,40)(27,41)(29,42)(21,32)(22,33)(23,34)(24,35)(29,34)(29,34)$

 $P_{19} = Group([(1,6)(2,10)(3,13)(4,15)(5,17)(7,20)(8,22)(9,24)(11,26)(12,33)(14,35)(5,21,17,37)(7,26,20,11)(9,14,24,30)(12,44,28,32)(16,36,41,45)(5,21,17,37)(7,26,20,11)(9,14,24,30)(12,44,28,32)(16,36,41,45)(3,44,14,36)(12,44,28,32)(16,36,41,45)(12,44,28,32)(16,36,41,45)(12,44,28,32)(16,36,41,45)(12,44,28,32)(16,36,41,45)(12,44,28,32)(16,36,41,45)(12,44,28,32)(16,36,41,45)(12,44,28,32)(16,36,41,45)(12,44,28,32)(16,36,41,45)(12,44,28,32)(16,36,41,45)(12,44,28,32)(16,36,41,45)(12,44,28,32)(16,36,41,45)(12,44,28,32)(16,36,41,45)(12,44,28,32)(16,36,41,45)(12,44,28,32)(16,36,41,45)(16,$ $P_{20} = Group([(1,6)(2,10)(3,13)(4,15)(5,17)(7,20)(8,21)(1,32)(22,33)(23,34)(24,35)(24,37)(12,25,28,40)(16,23)(17,24)(18,26)(19,28)(25,44)(23,36)(24,37)(23,38)(25,40)(27,41)(29,42)(32,43)(23,34)(24,35)(29,34)(29,34)($

 $|\chi_2|$ 1 -1 -1 1 1 1 1 -1 1 -1

 $|\chi_{11}|$ 1 -1 -1 1 $E(3)^2$ 1 1 -1 - $E(3)^2$ -1 - $E(3)^2$ $E(3)^2$

 $|\chi_{12}|$ 1 -1 -1 1 E(3) 1 1 -1 -E(3) -1 -E(3)

 $|\chi_{16}|$ 1 -1 1 E(3) 1 -1 -1 -E(3) 1 E(3)

 $|\chi_{19}|$ 1 1 -1 1 $E(3)^2$ 1 -1 1 $E(3)^2$ -1 $-E(3)^2$ $E(3)^2$

 $\chi_{20} \mid 1 \quad 1 \quad -1 \quad 1 \qquad E(3) \quad 1 \quad -1 \quad 1 \quad E(3) \quad -1 \quad -E(3) \qquad E(3)$

 $|\chi_{23}|$ 1 1 1 $E(3)^2$ 1 1 $E(3)^2$ $E(3)^2$

 $N_3 = Group([(1,3)(2,7)(4,11)(5,12)(6,13)(2,7)(4,11)(5,12)(6,13)(8,18)(9,19)(10,20)(14,25)(15,26)(16,27)(17,28)(21,32)(22,33)(23,34)(24,35)(29,39)(30,40)(31,41)(36,43)(21,36)(10,24,38)(11,25,39)(13,28,41)(15,30,42)(18,32,43)(22,33)(23,34)(24,35)(29,39)(30,40)(31,41)(36,43)(37,44)(38,45)(29,39)(30,40)(31,41)(36,43)(37,44)(38,45)(29,39)(30,40)(31,41)(36,43)(37,44)(38,45)(29,39)(30,40)(31,41)(36,43)(37,44)(38,45)(29,39)(30,40)(31,41)(36,43)(37,44)(38,45)(29,39)(30,40)(31,41)(36,43)(37,44)(38,45)(29,39)(30,40)(31,41)(36,43)(37,44)(38,45)(49,47)(46,48)(19,39)(30,40)(31,41)(36,43)(37,44)(38,45)(49,47)(46,48)(19,39)(30,40)(31,41)(36,43)(37,44)(38,45)(49,47)(46,48)(19,39)(30,40)(31,41)(36,43)(37,44)(38,45)(49,47)(46,48)(19,39)(49,47)(46,48)(19,39)(49,47)(46,48)(19,39)(49,47)(46,48)(19,39)(49,47)(46,48)(19,39)(49,47)(46,48)(19,39)(49,47)(46,48)(19,39)(49,47)(46,48)(19,39)(49,47)(46,48)(19,39)(49,47)(46,48)(19,39)(49,47)(46,48)(19,39)(49,47)(46,48)(19,39)(49,47)(49,48)(49,47)(46,48)(49,47)(49,48)$ $N_4 = Group([(1,2)(3,20)(4,8)(5,9)(6,10)(1,2)(3,20)(4,8)(5,9)(6,10)(1,2)(3,20)(4,8)(2,30)(1,2,3)(1,2,3)(1,3,3,3)(1,3,3,3,3)(1,3,3,3)(1,3,3,3)(1,3,3,3)(1,3,3,3)(1,3,3,3)(1,3,3,3)(1,3,3,3)(1,3,3,3)(1,3,3,3)(1,3,3,3)(1,3,3,3)(1,3,3,3)(1,3,3,3)(1,3,3,3,3)(1,3,3,3)(1,3,3,3)(1,3,3,3,3)(1,3,3,3,3)(1,3,3,3,3,3)(1,3,3,3,3)(1,3,3,3,3)(1,3,3,3,3)(1,3,3,3,3)(1,3,3,3,3)(1,3,3,3,3)(1,3,3$

 $N_0 = Grow([1, 2)(3, 2)(4, 3)(2, 3)(4, 4)(3, 4)(4, 4$

 $x_{1}, x_{2}, x_{3}, x_{4}, x_{5}, x_{5},$