The group G is isomorphic to the group labelled by [72, 34] in the Small Groups library. Ordinary character table of  $G \cong C2 \times ((C3 \times C3) : C4)$ :

	1a	3a	3b	3c	3d	2a	6a	6b	6c	6d	4a	4b	2b	6e	6f	6g	6h	2c	6i	6j	6k	6l	4c	4d
$\chi_1$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_2$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1
$\chi_3$	1	1	1	1	1	-1	-1	-1	-1	-1	1	-1	1	1	1	1	1	-1	-1	-1	-1	-1	1	-1
$\chi_4$	1	1	1	1	1	1	1	1	1	1	-1	-1	1	1	1	1	1	1	1	1	1	1	-1	-1
$\chi_5$	1	1	1	1	1	-1	-1	-1	-1	-1	-E(4)	E(4)	-1	-1	-1	-1	-1	1	1	1	1	1	E(4)	-E(4)
$\chi_6$	1	1	1	1	1	-1	-1	-1	-1	-1	E(4)	-E(4)	-1	-1	-1	-1	-1	1	1	1	1	1	-E(4)	E(4)
$\chi_7$	1	1	1	1	1	1	1	1	1	1	-E(4)	-E(4)	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	E(4)	E(4)
$\chi_8$	1	1	1	1	1	1	1	1	1	1	E(4)	E(4)	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-E(4)	-E(4)
$\chi_9$	2	2	-1	-1	-1	-2	-2	1	1	1	0	0	-2	-2	1	1	1	2	2	-1	-1	-1	0	0
$\chi_{10}$	2	2	-1	-1	-1	-2	-2	1	1	1	0	0	2	2	-1	-1	-1	-2	-2	1	1	1	0	0
$\chi_{11}$	2	2	-1	-1	-1	2	2	-1	-1	-1	0	0	-2	-2	1	1	1	-2	-2	1	1	1	0	0
$\chi_{12}$	2	2	-1	-1	-1	2	2	-1	-1	-1	0	0	2	2	-1	-1	-1	2	2	-1	-1	-1	0	0
$\chi_{13}$	2	-1	2	-1	-1	2	-1	2	-1	-1	0	0	2	-1	2	-1	-1	2	-1	2	-1	-1	0	0
$\chi_{14}$	2	-1	2	-1	-1	2	-1	2	-1	-1	0	0	-2	1	-2	1	1	-2	1	-2	1	1	0	0
$\chi_{15}$	2	-1	2	-1	-1	-2	1	-2	1	1	0	0	2	-1	2	-1	-1	-2	1	-2	1	1	0	0
$\chi_{16}$	2	-1	2	-1	-1	-2	1	-2	1	1	0	0	-2	1	-2	1	1	2	-1	2	-1	-1	0	0
$\chi_{17}$	2	-1	-1	-1	2	-2	1	1	1	-2	0	0	-2	1	1	1	-2	2	-1	-1	-1	2	0	0
$\chi_{18}$	2	-1	-1	-1	2	-2	1	1	1	-2	0	0	2	-1	-1	-1	2	-2	1	1	1	-2	0	0
$\chi_{19}$	2	-1	-1	-1	2	2	-1	-1	-1	2	0	0	-2	1	1	1	-2	-2	1	1	1	-2	0	0
$\chi_{20}$	2	-1	-1	-1	2	2	-1	-1	-1	2	0	0	2	-1	-1	-1	2	2	-1	-1	-1	2	0	0
$\chi_{21}$	2	-1	-1	2	-1	-2	1	1	-2	1	0	0	-2	1	1	-2	1	2	-1	-1	2	-1	0	0
$\chi_{22}$	2	-1	-1	2	-1	-2	1	1	-2	1	0	0	2	-1	-1	2	-1	-2	1	1	-2	1	0	0
$\chi_{23}$	2	-1	-1	2	-1	2	-1	-1	2	-1	0	0	-2	1	1	-2	1	-2	1	1	-2	1	0	0
$\chi_{24}$	2	-1	-1	2	-1	2	-1	-1	2	-1	0	0	2	-1	-1	2	-1	2	-1	-1	2	-1	0	0

Trivial source character table of  $G \cong C2 \times ((C3 \times C3) : C4)$  at p = 3:

Normalisers $N_i$		$\overline{N_1}$			$N_2$				$N_3$				Λ	$V_4$				$\overline{N_5}$				$\overline{N_6}$	
p-subgroups of $G$ up to conjugacy in $G$		$P_1$			$P_2$				$P_3$				I	24				$\overline{P_5}$				$\overline{P_6}$	
Representatives $n_i \in N_i$	1a $2a$ $4a$	4b $2b$	2c $4c$	d $1a$ $2a$	4b $2b$ $4a$	2c $4d$	4c $1a$	2a $4b$	2b $4a$	2c $4d$	4c	1a $2a$ $4b$	2b	$\frac{1}{4a}$ $2c$	4d $4c$	1a $2a$	4b $2b$	$\frac{3}{4a}$ $2c$	4d $4c$	$\frac{1a}{a}$	4b $2b$	$\frac{3}{4a}$ $2c$	4d $4c$
$0 \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 + 1 \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} + 1 \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 $	$\frac{1}{24}  9  -9  -1$	1 9	-9 $-1$	1 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 \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_8 + 0 \cdot \chi_9 + 1 \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_{20} + 0 \cdot \chi_{21} + 1 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot $		-1 9	-9 1 -	-1 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 \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} + 1 \cdot \chi_{12} + 1 \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} + 1 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot $	·	-1 9	9 -1 -	-1 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
$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_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \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} + 1 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot $		1 9	9 1	1     0  0	0 0 0	0 0	$0 \mid 0$	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 \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} + 1 \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_{18} + 1 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 1 \cdot \chi_{23} + 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_{22} + 1 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot $	-	E(4) -9	-9 - E(4) - I	$E(4) \mid 0 = 0$	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 \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} + 1 \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_{18} + 1 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 1 \cdot \chi_{23} + 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_{22} + 1 \cdot \chi_{23} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot $		$-\dot{E(4)}$ -9	-9  E(4)  E	(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 \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 + 1 \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} + 1 \cdot \chi_{16} + 1 \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_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot $		E(4) $-9$	9 $E(4)$ $-1$	$E(4) \mid 0 = 0$	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
$ \begin{vmatrix} 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_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} + 0 \cdot \chi_{15} + 1 \cdot \chi_{16} + 1 \cdot \chi_{17} + 0 \cdot \chi_{18} + 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$		$-\dot{E(4)}$ -9	9  -E(4)  E	$(4)' \mid 0 = 0$	0 0 0	0 0	$0 \mid 0$	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 7
$\frac{1}{0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} +$	· /	-E(4) $-3$	3 - E(4) E	(4)   3 -3 -	-E(4) $-3$ $E(4)$	3  E(4)	-E(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 \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 + 1 \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_{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_{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_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot $	(-1	E(4)' $-3$	E(4) - E(4)	$E(4) \mid 3 - 3 \mid 1$	$E(4)'$ $-3$ $-\dot{E}($	$(1)$ 3 $-\stackrel{\frown}{E}(4)$	E(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 \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} + 1 \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_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot $	·	E(4) $-3$	$-3$ $-\stackrel{\circ}{E}(\stackrel{\checkmark}{4})$ $-1$	$E(4) \mid 3  3  1$	E(4)  -3  E(4)	$\begin{pmatrix} -3 & -E(4) \end{pmatrix}$	$-\dot{E}(4) \mid 0$	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 7
$0 \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} + 1 \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_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot $		$-\stackrel{\widehat{E}(4)}{=} -3$	-3 $E(4)$ $E$	$(4)^{'} \mid 3  3  -$	$-\dot{E(4)}$ $-3$ $-\dot{E(}$	(4)  -3  E(4)	E(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 7
$0 \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 + 1 \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_{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 $		1 3	-3 $-1$	$1 \mid 3 \mid -3$	1 3 $-1$	-3 $1$	-1   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 7
$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_8 + 0 \cdot \chi_9 + 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_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot $		1 3	3 1	1 3 3	1 3 1	3 1	1 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 7
$0 \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} + 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_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot $		-1 3	3 -1 -	-1 3 3	-1 3 $-1$	3 -1	$-1 \mid 0$	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 7
$0 \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_8 + 0 \cdot \chi_9 + 1 \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_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot $	-	-1 3	-3 1 -	$-1 \mid 3 -3$	-1 3 1	-3 $-1$	1 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 7
$\frac{1}{0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} +$		$\overline{-E(4)}$ $-3$	-3 $E(4)$ $E$	(4) 0 0	0 0 0	0 0	0 3	3 - E(4)	4) -3 -E(4)	(4)  -3  E(4)	E(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 \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_{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} + 1 \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 $	· /	E(4) $-3$	-3 $-E(4)$ $-1$	$E(4) \mid 0 = 0$	0 0 0	0 0	0   3	3   E(4)	-3  E(4)	)' -3 - E(4)	$-\dot{E(4)}$	0 0 0	0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0 7
$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_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} + 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 $	·	E(4) $-3$	3  E(4)  -1	$E(4) \mid 0 = 0$	0 0 0	0 0	0   3	-3 $E(4)$	$-3 - \dot{E}(4)$	(4) 3 $-E(4)$	E(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 7
$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_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} + 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 $		$-\dot{E(4)}$ $-3$	3  -E(4)  E	$(4)' \mid 0 = 0$	0 0 0	0 0	0   3	$-3$ $-\hat{E}(4)$	$\stackrel{'}{4}$ ) -3 $E(\stackrel{.}{4})$	) $3  E(4)$	$-\stackrel{\widehat{E}(4)}{=}$	0 0 0	0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0 7
$0 \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_{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_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot $		1 3	-3 $-1$	$\hat{1} \mid 0  0$	0 0 0	0 0	0   3	-3 1	$3 \qquad -1$	-3 $1$	-1	0 0 0	0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0 7
$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_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 $		1 3	3 1	1     0  0	0 0 0	0 0	0   3	3 1	3 1	3 1	1	0 0 0	0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0 7
$0 \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_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{19} + 1 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 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_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot $	-	-1 3	3 -1 -	-1 0 0	0 0 0	0 0	0 3	3 -1	3 -1	3 -1	-1	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 \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_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_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot $	*	-1 3	-3 1 -	-1 0 0	0 0 0	0 0	0   3	-3 $-1$	3 1	-3 $-1$	1	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 \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_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 1 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot $		$\overline{-E(4)}$ $-3$	-3 $E(4)$ $E$	(4) 0 0	0 0 0	0 0	0 0	0 0	0 0	0 0	0	3  3  -E(	(4)  -3  -1	E(4) $-3$ $E$	E(4) $E(4)$	0 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_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_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 1 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot $	$\frac{1}{24} \mid 3  3  E(4)$	E(4) $-3$	-3 - E(4) - E(4)	$\widetilde{\mathcal{E}}(4) \mid 0 = 0$	0 0 0	0 0	0 0	0 0	0 0	0 0	0	3   3   E(4	(4) $-3$ $E$	-3 - 1	E(4) $-E(4)$	0 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 + 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_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{20} + 1 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	E(4) $-3$	3  E(4)  -1	$E(4) \mid 0 = 0$	0 0 0	0 0	0 0	0 0	0 0	0 0	0	3 -3 E(4	(1) $-3$ $-1$	$\widehat{E}(4)$ 3 $-1$	E(4) $E(4)$	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0 7
$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_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_{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 $	$\begin{bmatrix} 24 & 3 & -3 & E(4) \end{bmatrix}$	-E(4) -3	3 - E(4) E	(4) 0 0	0 0 0	0 0	0   0	0 0	0 0	0 0	0	3 -3 -E(	(4) $-3$ $E$	E(4) 3 $E$	E(4) $-E(4)$	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0 7
$0 \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_{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_{20} + 0 \cdot \chi_{21} + 1 \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_{24} + 0 \cdot \chi_{25} + 0 \cdot $	$_{24} \mid 3  -3  -1$	1 3	-3 $-1$	$1 \mid 0 \mid 0$	0 0 0	0 0	0 0	0 0	0 0	0 0	0	3 -3 1	3 -	-1 $-3$	1 -1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0 7
$1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 1 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} +$	24 3 3 1	1 3	3 1	1     0  0	0 0 0	0 0	0   0	0 0	0 0	0 0	0	3 3 1	3	1 3	1 1	0 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 + 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_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 1 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 1 \cdot \chi_{24} + 0 \cdot $	$\frac{1}{24} \mid 3  3  -1$	-1 3	3 -1 -	-1 0 0	0 0 0	0 0	0 0	0 0	0 0	0 0	0	3  3  -1	1 3 -	-1 3 -	-1 $-1$	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
$0 \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_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_{20} + 0 \cdot \chi_{21} + 1 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot $	$\frac{1}{24} \mid 3 - 3 = 1$	-1 3	-3 1 -	-1 0 0	0 0 0	0 0	0   0	0 0	0 0	0 0	0	3 -3 -1	1 3	1 -3 -	-1 1	0 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 + 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_{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_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot $	$\frac{1}{24}$ 3 $-3$ $-E(4)$	E(4) $-3$	3   E(4)   -1	E(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	3 -3 I	$\overline{E(4)}$ $-3$ $-$	E(4) 3 -	$-\overline{E(4)}$ $E(4)$	1) 0 0	0 0	0 0	0 0
$0 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 1 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} +$	$\begin{bmatrix} 24 & 3 & -3 & E(4) \end{bmatrix}$	-E(4) -3	3 - E(4) E	(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	3 -3 -	-E(4) -3 /	$\mathbb{Z}(4)$ 3 1	E(4) $-E(4)$	$(4) \mid 0 = 0$	0 0	0 0	0 0
$0 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 1 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} +$	$(24 \   \ 3 \   \ 3 \   \ E(4)$	E(4) -3	-3 - E(4) - E(4)	$E(4) \mid 0 = 0$	0 0 0	0 0	0   0	0 0	0 0	0 0	0	0  0  0	0	0 0	0 0	$\begin{vmatrix} 3 & 3 & I \end{vmatrix}$	E(4) $-3$ $E(4)$	E(4) = -3 -	-E(4) - E(4)	$(4) \mid 0 = 0$	0 0	0 0	0 0
$0 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 1 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} +$	$_{24} \mid 3  3  -E(4)$	-E(4) -3	-3 $E(4)$ $E$	(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	3 3 -	-E(4) -3 -	E(4) -3 /	E(4) $E(4)$	1) 0 0	0 0	0 0	0 0
$0 \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_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_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot $	$\frac{1}{24} \mid 3 - 3 = 1$	-1 3	-3 1 -	-1 0 0	0 0 0	0 0	0   0	0 0	0 0	0 0	0	0  0  0	0	0 0	0 0	3 -3	-1 3	1  -3	-1 1	0 0	0 0	0 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_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_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 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 $	$\frac{1}{24} \mid 3  3  1$	1 3	3 1	1 0 0	0 0 0	0 0	0   0	0 0	0 0	0 0	0	0  0  0	0	0 0	0 0	3 3	1 3	1 3	1 1	0 0	0 0	0 0	0 0
$0 \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} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot $	$\frac{1}{24} \mid 3  3  -1$	-1 3	3 -1 -	-1 0 0	0 0 0	0 0	0   0	0 0	0 0	0 0	0	0  0  0	0	0 0	0 0	3 3	-1 3	-1 3	-1 $-1$	0 0	0 0	0 0	0 0
$0 \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_{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_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot $	$\begin{bmatrix} 24 & 3 & -3 & -1 \end{bmatrix}$	1 3	-3 $-1$	1 0 0	0 0 0	0 0	0 0	0 0	0 0	0 0	0	0 0 0	0	0 00	0 0	3 -3	1 3	-1 $-3$	$1 \qquad -1$	0 0	0 0	0 0	0 0
$1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} +$	24 1 1 1	1 1	1 1	1 1 1	1 1 1	1 1	1 1	1 1	1 1	1 1	1	1 1 1	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
$0 \cdot \chi_{1} + 0 \cdot \chi_{2} + 1 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} +$	$\begin{bmatrix} 24 & 1 & -1 & 1 \end{bmatrix}$	-1 1	-1 1 -	-1   1 -1	-1 1 1	-1 $-1$	1   1	-1 $-1$	. 1 1	-1 $-1$	1	1 -1 -1	l 1	1 -1 -	-1 1	1 -1	-1 1	1 -1	-1 1	$\begin{vmatrix} 1 & -1 \end{vmatrix}$	-1 1	1 -1	-1 1
$0 \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_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 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 $	$_{24} \mid 1  1  -1$	-1 1	1 -1 -	-1   1 1	-1 1 $-1$	1 -1	$-1 \mid 1$	1 -1	1 -1	1 -1	-1	1  1  -1	l 1 -	-1 1 -	-1 $-1$	1 1	-1 1	-1 1	-1 $-1$	.   1 1	-1 1	-1 1	-1 $-1$
$0 \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_{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_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot $	$\begin{bmatrix} 24 & 1 & -1 & -1 \end{bmatrix}$	1 1	-1 $-1$	1   1 -1	1   1   -1	-1 1	$-1 \mid 1$	-1 1	1 -1	-1 1	-1	$1  -1 \qquad 1$	1 -	-1 $-1$	$1 \qquad -1$	1 -1	1 1	-1 $-1$	1 -1	.   1 -1	1 1	-1 $-1$	1 -1
$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_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_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot $		-E(4) -1	1 - E(4) E	$(4) \mid 1 - 1 -$	-E(4) -1 $E(4)$	1   E(4)	-E(4)   1	-1 - E(4)	4) $-1$ $E(4)$	) $1   E(4)$	-E(4)	1 $-1$ $-E($	(4) -1 E	E(4) 1 $E$	E(4) - E(4)	1 -1 -	-E(4) -1 /	$\mathcal{Z}(4)$ 1 ?	E(4) $-E(4)$	$(4) \mid 1 -1$	-E(4) -1	E(4) 1	E(4) $-E(4)$
		E(4) $-1$	1 $E(4) - E(4)$	$E(4) \mid 1 - 1 \mid E(4) \mid 1$	E(4) $-1$ $-E($	1) $1 - E(4)$	E(4) 1	-1 $E(4)$	-1  -E(4)	(4)   1   -E(4)	E(4)	1 $-1$ $E(4$	(1) $-1$ $-1$	E(4) 1 $-1$	E(4) $E(4)$	$\mid 1 -1 \mid F$	E(4) -1 -	E(4) 1 -	-E(4) $E(4)$	1 1 -1	E(4) $-1$	-E(4) 1	-E(4) $E(4)$
				$E(4) \mid 1 \mid 1 \mid 1$	E(4) $-1$ $E(4)$	-1 - E(4)	$-E(4) \mid 1$	1   E(4)	-1  E(4)	) $-1$ $-E(4)$	-E(4)	1 1 $E(4)$	(1) $-1$ $E$	-1 - 1	E(4) $-E(4)$	$\mid 1  1  I$	E(4) $-1$ $E(4)$	$\mathcal{Z}(4)$ $-1$ -	-E(4) $-E(4)$	(4) 1 1	E(4) $-1$	E(4) $-1$	-E(4) $-E(4)$
$0 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 1 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} +$	$_{.24} \mid 1  1  -E(4)$	-E(4) -1	-1 $E(4)$ $E$	(4)   1  1  -	-E(4) $-1$ $-E($	1) $-1$ $E(4)$	$E(4) \mid 1$	1 - E(4	4) $-1 - E(4)$	4) $-1$ $E(4)$	E(4)	1  1  -E(	(4)  -1  -1	E(4) $-1$ $E$	E(4) $E(4)$	1 1 -	-E(4) -1 -	E(4) $-1$ $I$	E(4) $E(4)$	<sub>1</sub> ) 1 1	-E(4) -1	-E(4) -1	E(4) $E(4)$
				•			•				•												

$$\begin{split} P_1 &= Group([()]) \cong 1 \\ P_2 &= Group([(10,12,11)]) \cong \text{C3} \\ P_3 &= Group([(7,8,9)(10,12,11)]) \cong \text{C3} \\ P_4 &= Group([(7,8,9)(10,11,12)]) \cong \text{C3} \\ P_5 &= Group([(7,9,8)]) \cong \text{C3} \\ P_6 &= Group([(10,12,11),(7,8,9)(10,12,11)]) \cong \text{C3} \times \text{C3} \end{split}$$

$$\begin{split} N_1 &= Group([(1,2,3,4)(5,6)(8,9)(11,12),(1,3)(2,4)(5,6),(1,3)(2,4),(7,9,8)(10,11,12),(7,8,9)]) \cong \operatorname{C2} \times ((\operatorname{C3} \times \operatorname{C3}) : \operatorname{C4}) \\ N_2 &= Group([(1,2,3,4)(5,6)(8,9)(11,12),(1,3)(2,4)(5,6),(1,3)(2,4),(7,9,8)(10,11,12),(7,8,9)]) \cong \operatorname{C2} \times ((\operatorname{C3} \times \operatorname{C3}) : \operatorname{C4}) \\ N_3 &= Group([(1,2,3,4)(5,6)(8,9)(11,12),(1,3)(2,4)(5,6),(1,3)(2,4),(7,9,8)(10,11,12),(7,8,9)]) \cong \operatorname{C2} \times ((\operatorname{C3} \times \operatorname{C3}) : \operatorname{C4}) \\ N_4 &= Group([(1,2,3,4)(5,6)(8,9)(11,12),(1,3)(2,4)(5,6),(1,3)(2,4),(7,9,8)(10,11,12),(7,8,9)]) \cong \operatorname{C2} \times ((\operatorname{C3} \times \operatorname{C3}) : \operatorname{C4}) \\ N_5 &= Group([(1,2,3,4)(5,6)(8,9)(11,12),(1,3)(2,4)(5,6),(1,3)(2,4),(7,9,8)(10,11,12),(7,8,9)]) \cong \operatorname{C2} \times ((\operatorname{C3} \times \operatorname{C3}) : \operatorname{C4}) \\ N_6 &= Group([(1,2,3,4)(5,6)(8,9)(11,12),(1,3)(2,4)(5,6),(1,3)(2,4),(7,9,8)(10,11,12),(7,8,9)]) \cong \operatorname{C2} \times ((\operatorname{C3} \times \operatorname{C3}) : \operatorname{C4}) \\ N_6 &= Group([(1,2,3,4)(5,6)(8,9)(11,12),(1,3)(2,4)(5,6),(1,3)(2,4),(7,9,8)(10,11,12),(7,8,9)]) \cong \operatorname{C2} \times ((\operatorname{C3} \times \operatorname{C3}) : \operatorname{C4}) \\ N_6 &= Group([(1,2,3,4)(5,6)(8,9)(11,12),(1,3)(2,4)(5,6),(1,3)(2,4),(7,9,8)(10,11,12),(7,8,9)]) \cong \operatorname{C2} \times ((\operatorname{C3} \times \operatorname{C3}) : \operatorname{C4}) \\ N_6 &= Group([(1,2,3,4)(5,6)(8,9)(11,12),(1,3)(2,4)(5,6),(1,3)(2,4),(7,9,8)(10,11,12),(7,8,9)]) \cong \operatorname{C2} \times ((\operatorname{C3} \times \operatorname{C3}) : \operatorname{C4}) \\ N_6 &= Group([(1,2,3,4)(5,6)(8,9)(11,12),(1,3)(2,4)(5,6),(1,3)(2,4),(7,9,8)(10,11,12),(7,8,9)]) \cong \operatorname{C2} \times ((\operatorname{C3} \times \operatorname{C3}) : \operatorname{C4}) \\ N_6 &= Group([(1,2,3,4)(5,6)(8,9)(11,12),(1,3)(2,4)(5,6),(1,3)(2,4),(7,9,8)(10,11,12),(7,8,9)]) \cong \operatorname{C2} \times ((\operatorname{C3} \times \operatorname{C3}) : \operatorname{C4}) \\ N_7 &= Group([(1,2,3,4)(5,6)(8,9)(11,12),(1,3)(2,4)(5,6),(1,3)(2,4),(7,9,8)(10,11,12),(7,8,9)]) \cong \operatorname{C2} \times ((\operatorname{C3} \times \operatorname{C3}) : \operatorname{C4}) \\ N_7 &= Group([(1,2,3,4)(5,6)(8,9)(11,12),(1,3)(2,4)(5,6),(1,3)(2,4),(7,9,8)(10,11,12),(7,8,9)]) \cong \operatorname{C2} \times ((\operatorname{C3} \times \operatorname{C3}) : \operatorname{C4}) \\ N_7 &= Group([(1,2,3,4)(5,6)(8,9)(11,12),(1,3)(2,4)(5,6),(1,3)(2,4),(7,9,8)(10,11,12),(7,8,9)]) \cong \operatorname{C2} \times ((\operatorname{C3} \times \operatorname{C3}) : \operatorname{C4}) \\ N_7 &= Group([(1,2,3,4)(5,6)(8,9)(11,12),(1,3)(2,4)(5,6),(1,3)(2,4),(7,9,8)(10,11,12),(7,8,9)]) \cong \operatorname{C2} \times ((\operatorname{C3} \times \operatorname{C3}) : \operatorname{C4}) \\ N_7 &= Group([(1,2,3,4)(5,6)(8,9$$