	1 <i>a</i>	7a	7 <i>b</i>	7c	7d	7e	7f	2a	14a	14b	14c	14d	14e	14f	2b	14g	14h	14i	14 <i>j</i>	14k	14l	2c	14m	14n	140	14p	14q	14r
$\chi_1$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	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	-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	-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	1	1	1	1
$\chi_5$	1	E(7)	$E(7)^{2}$	$E(7)^{3}$	$E(7)^4$	$E(7)^{5}$	$E(7)^{6}$	1	E(7)	$E(7)^{2}$	$E(7)^{3}$	$E(7)^4$	$E(7)^{5}$	$E(7)^{6}$	1	E(7)	$E(7)^{2}$	$E(7)^{3}$	$E(7)^{4}$	$E(7)^{5}$	$E(7)^{6}$	1	E(7)	$E(7)^{2}$	$E(7)^{3}$	$E(7)^4$	$E(7)^{5}$	$E(7)^{6}$
$\chi_6$	1	E(7)	$E(7)^{2}$	$E(7)^{3}$	$E(7)^4$	$E(7)^{5}$	$E(7)^{6}$	-1	-E(7)	$-E(7)^2$	$-E(7)^{3}$	$-E(7)^4$	$-E(7)^{5}$	$-E(7)^{6}$	1	E(7)	$E(7)^{2}$	$E(7)^{3}$	$E(7)^4$	$E(7)^{5}$	$E(7)^{6}$	-1	-E(7)	$-E(7)^{2}$	$-E(7)^{3}$	$-E(7)^4$	$-E(7)^{5}$	$-E(7)^{6}$
$\chi_7$	1	E(7)	$E(7)^{2}$	$E(7)^{3}$	$E(7)^4$	$E(7)^{5}$	$E(7)^{6}$	1	E(7)	$E(7)^{2}$	$E(7)^{3}$	$E(7)^4$	$E(7)^{5}$	$E(7)^{6}$	-1	-E(7)	$-E(7)^{2}$	$-E(7)^{3}$	$-E(7)^4$	$-E(7)^{5}$	$-E(7)^{6}$	-1	-E(7)	$-E(7)^{2}$	$-E(7)^{3}$	$-E(7)^4$	$-E(7)^{5}$	$-E(7)^{6}$
$\chi_8$	1	E(7)	$E(7)^{2}$	$E(7)^{3}$	$E(7)^4$	$E(7)^{5}$	$E(7)^{6}$	-1	-E(7)	$-E(7)^2$	$-E(7)^{3}$	$-E(7)^4$	$-E(7)^{5}$	$-E(7)^{6}$	-1	-E(7)	$-E(7)^{2}$	$-E(7)^{3}$	$-E(7)^4$	$-E(7)^{5}$	$-E(7)^{6}$	1	E(7)	$E(7)^{2}$	$E(7)^{3}$	$E(7)^4$	$E(7)^{5}$	$E(7)_{-}^{6}$
$\chi_9$	1	$E(7)^2$	$E(7)^4$	$E(7)^{6}$	E(7)	$E(7)^{3}$	$E(7)^{5}$	1	$E(7)^2$	$E(7)^4$	$E(7)^{6}$	E(7)	$E(7)^{3}$	$E(7)^{5}$	1	$E(7)^{2}$	$E(7)^4$	$E(7)^{6}$	E(7)	$E(7)^{3}$	$E(7)^{5}$	1	$E(7)^2$	$E(7)^4$	$E(7)^{6}$	E(7)	$E(7)^{3}$	$E(7)^{5}$
$\chi_{10}$	1	$E(7)^2$	$E(7)^4$	$E(7)^6$	E(7)	$E(7)^{3}$	$E(7)^{5}$	-1	$-E(7)^2$	$-E(7)^4$	$-E(7)^{6}$	-E(7)	$-E(7)^{3}$	$-E(7)^{5}$	1	$E(7)^2$	$E(7)^4$	$E(7)^{6}$	E(7)	$E(7)^3$	$E(7)^{5}$	-1	$-E(7)^2$	$-E(7)^4$	$-E(7)^{6}$	-E(7)	$-E(7)^{3}$	$-E(7)^{5}$
$\chi_{11}$	1	$E(7)^2$	$E(7)^4$	$E(7)^6$	E(7)	$E(7)^3$	$E(7)^{5}$	1	$E(7)^2$	$E(7)^4$	$E(7)^{6}$	E(7)	$E(7)^3$	$E(7)^{5}$	-1	$-E(7)^2$	$-E(7)^4$	$-E(7)^{6}$	-E(7)	$-E(7)^{3}$	$-E(7)^{5}$	-1	$-E(7)^2$	$-E(7)^4$	$-E(7)^{6}$	-E(7)	$-E(7)^{3}$	$-E(7)^{5}$
$\chi_{12}$	1	$E(7)^2$	$E(7)^4$	$E(7)^{6}$	E(7)	$E(7)^{3}$	$E(7)^{3}$	-1	$-E(7)^{2}$	$-E(7)^4$	$-E(7)^{6}$	-E(7)	$-E(7)^{3}$	$-E(7)^{5}$	-1	$-E(7)^2$	$-E(7)^4$	$-E(7)^{6}$	-E(7)	$-E(7)^3$	$-E(7)^{5}$	1	$E(7)^2$	$E(7)^4$	$E(7)^6$	E(7)	$E(7)^3$	$E(7)^5$
$\chi_{13}$	1	$E(7)^3$	$E(7)^{6}$	$E(7)^2$	$E(7)^{5}$	E(7)	$E(7)^4$	1	$E(7)^3$	$E(7)^6$	$E(7)^2$	$E(7)^{5}$	E(7)	$E(7)^4$	1	$E(7)^3$	$E(7)^6$	$E(7)^2$	$E(7)^{5}$	E(7)	$E(7)^4$	1	$E(7)^3$	$E(7)^6$	$E(7)^2$	$E(7)^5$	E(7)	$E(7)^4$
$\chi_{14}$	1	$E(7)^3$	$E(7)^{6}$	$E(7)^2$	$E(7)^{5}$	E(7)	$E(7)^4$	-1	$-E(7)^{3}$	$-E(7)^{6}$	$-E(7)^2$	$-E(7)^{5}$	-E(7)	$-E(7)^4$	1	$E(7)^3$	$E(7)^{6}$	$E(7)^2$	$E(7)^5$	E(7)	$E(7)^4$	- 4	$-E(7)^3$	$-E(7)^{6}$	$-E(7)^2$	$-E(7)^{5}$	-E(7)	$-E(7)^4$
$\chi_{15}$	1	$E(7)^3$	$E(7)^{6}$	$E(7)^2$	$E(7)^{5}$	E(7)	$E(7)^4$	1	$E(7)^3$	$E(7)^{6}$	$E(7)^2$	$E(7)^5$	E(7)	$E(7)^4$	-1	$-E(7)^3$	$-E(7)^{6}$	$-E(7)^2$	$-E(7)^{5}$	-E(7)	$-E(7)^4$	-1	$-E(7)^{3}$	$-E(7)^{6}$	$-E(7)^2$	$-E(7)^{5}$	-E(7)	$-E(7)^4$
$\chi_{16}$	1	$E(7)^3$	$E(7)^{6}$	$E(7)^2$	$E(7)^{5}$	E(7)	$E(7)^{2}$	-l	$-E(7)^3$		$-E(7)^2$	$-E(7)^{5}$	-E(7)	$-E(7)^4$	-1	$-E(7)^3$	$-E(7)^{6}$	$-E(7)^{2}$	$-E(7)^{5}$	-E(7)	$-E(7)^4$	1	$E(7)^3$	$E(7)^6$	$E(7)^2$	$E(7)^{5}$	E(7)	$E(7)^4$
$\chi_{17}$	1 1	$E(7)^4$	E(7)	$E(7)^{5}$	$E(7)^2$	$E(7)^{6}$	$E(7)^3$	1	$E(7)^4$	E(7)	$E(7)^5$	$E(7)^2$	$E(7)^6$	$E(7)^3$	1	$E(7)^4$	E(7)	$E(7)^5$	$E(7)^2$	$E(7)^6$	$E(7)^3$	1	$E(7)^4$	E(7)	$E(7)^5$	$E(7)^2$	$E(7)^{6}$	$E(7)^3$
$\chi_{18}$	1 1	$E(7)^4$ $E(7)^4$	E(7) $E(7)$	$E(7)^5$ $E(7)^5$	$E(7)^2  E(7)^2$	$E(7)^{6}$ $E(7)^{6}$	$E(7)^3$	-1 1	$-E(7)^4$	$ \begin{array}{c} -E(7) \\ E(7) \end{array} $	$-E(7)^5$ $E(7)^5$	$-E(7)^2$ $E(7)^2$	$-E(7)^6$ $E(7)^6$	$-E(7)^3$ $E(7)^3$	1	$E(7)^4 - E(7)^4$	E(7) - E(7)	$E(7)^5 - E(7)^5$	$E(7)^2 - E(7)^2$	$E(7)^6 - E(7)^6$	$E(7)^3 - E(7)^3$	-1 1	$-E(7)^4$ $-E(7)^4$	-E(7)	$-E(7)^5$ $-E(7)^5$	$-E(7)^2 - E(7)^2$	$-E(7)^6 - E(7)^6$	$-E(7)^3 - E(7)^3$
$\chi_{19}$	1	$E(7)^4$	E(7)	$E(7)^5$	$E(7)^2$	$E(7)^6$	$E(7)^3$	_1 _1	$E(7)^4 - E(7)^4$	E(7) $-E(7)$	$-E(7)^5$	$-E(7)^2$	$-E(7)^{6}$	$-E(7)^3$	-1 -1	$-E(7)^4$	-E(7) $-E(7)$	$-E(7)^{5}$	$-E(7)^2$	$-E(7)^{6}$	$-E(7)^{3}$ $-E(7)^{3}$	-1 1	$E(7)^4$	$ \begin{array}{c} -E(7) \\ E(7) \end{array} $	$\frac{-E(7)^5}{E(7)^5}$	$\frac{-E(7)}{E(7)^2}$	$E(7)^{6}$	$E(7)^3$
$\chi_{20}$	1	$E(7)^5$	$E(7)^3$	E(7)	$E(7)^{6}$	$E(7)^4$	$E(7)^2$	- <sub>1</sub>	$E(7)^{5}$	$E(7)^3$	E(7)	$E(7)^{6}$	$\frac{-E(7)}{E(7)^4}$	$\frac{-E(7)}{E(7)^2}$	- <sub>1</sub>	$E(7)^5$	$E(7)^3$	E(7)	$E(7)^{6}$	$E(7)^4$	$E(7)^2$	1	$E(7)^{5}$	$E(7)^3$	E(7)	$E(7)^{6}$	$E(7)^4$	$E(7)^2$
$\chi_{21}$	1	$E(7)^5$	$E(7)^3$	E(7)	$E(7)^{6}$	$E(7)^4$	$E(7)^2$	_1 _1	$-E(7)^5$	$-E(7)^3$	-E(7)	$-E(7)^{6}$	$-E(7)^4$	$-E(7)^2$	1	$E(7)^5$	$E(7)^3$	E(7)	$E(7)^6$	$E(7)^4$	$E(7)^2$	_1 _1		$-E(7)^3$	-E(7)	$-E(7)^{6}$	$-E(7)^4$	$-E(7)^{2}$
$\chi_{22}$	1	$E(7)^5$	$E(7)^3$	E(7)	$E(7)^{6}$	$E(7)^4$	$E(7)^2$	1	$E(7)^5$	$E(7)^3$	E(7)	$E(7)^{6}$	$E(7)^4$	$E(7)^2$	_1 _1	$-E(7)^5$	$-E(7)^3$	-E(7)	$-E(7)^{6}$	$-E(7)^4$	$-E(7)^2$	_1	$-E(7)^{5}$	$-E(7)^{3}$	-E(7)	$-E(7)^{6}$	$-E(7)^4$	$-E(7)^{2}$
$\chi_{23}$	1	$E(7)^5$	$E(7)^3$	E(7)	$E(7)^{6}$	$E(7)^4$	$E(7)^2$	_1 _1	$-E(7)^5$	$-E(7)^3$	-E(7)	$-E(7)^{6}$	$-E(7)^4$	$-E(7)^2$	-1	$-E(7)^{5}$	$-E(7)^3$	-E(7)	$-E(7)^{6}$	$-E(7)^4$	$-E(7)^2$	1	$E(7)^5$	$E(7)^3$	E(7)	$E(7)^{6}$	$E(7)^4$	$E(7)^2$
$\chi_{24}$	1	$E(7)^{6}$	$E(7)^{5}$	$E(7)^4$	$E(7)^3$	$E(7)^2$	E(7)	1	$E(7)^{6}$	$E(7)^{5}$	$E(7)^4$	$E(7)^3$	$E(7)^2$	E(7)	1	$E(7)^{6}$	$E(7)^{5}$	$E(7)^4$	$E(7)^3$	$E(7)^2$	E(7)	1	$E(7)^{6}$	$E(7)^{5}$	$E(7)^4$	$E(7)^3$	$E(7)^2$	E(7)
$\chi_{25}$	1	$E(7)^6$	$E(7)^{5}$	$E(7)^4$	$E(7)^3$	$E(7)^2$	E(7)	_1 _1	$-E(7)^{6}$	$-E(7)^5$	$-E(7)^4$	$-E(7)^3$	$-E(7)^2$	-E(7)	1	$E(7)^{6}$	$E(7)^{5}$	$E(7)^4$	$E(7)^3$	$E(7)^2$	E(7)	<u>-1</u>	$-E(7)^{6}$	$-E(7)^{5}$	$-E(7)^4$	$-E(7)^3$	$-E(7)^2$	-E(7)
$\chi_{27}$	1	$E(7)^{6}$	$E(7)^{5}$	$E(7)^4$	$E(7)^3$	$E(7)^2$	E(7)	1	$E(7)^{6}$	$E(7)^{5}$	$E(7)^4$	$E(7)^3$	$E(7)^2$	E(7)	<u>-</u> 1	$-E(7)^{6}$	$-E(7)^5$	$-E(7)^4$	$-E(7)^3$	$-E(7)^2$	-E(7)	<u>-1</u>	$-E(7)^{6}$	$-E(7)^{5}$	$-E(7)^4$	$-E(7)^3$	$-E(7)^2$	-E(7)
$\chi_{28}$	1	$E(7)^6$	$E(7)^5$	$E(7)^4$	$E(7)^3$	$E(7)^2$	E(7)	-1	$-E(7)^{6}$	$-E(7)^5$	$-E(7)^4$	$-E(7)^3$	$-E(7)^2$	-E(7)	-1	$-E(7)^{6}$	$-E(7)^{5}$	$-E(7)^4$	$-E(7)^3$	$-E(7)^2$	-E(7)	1	$E(7)^{6}$	$E(7)^{5}$	$E(7)^4$	$E(7)^3$	$E(7)^2$	E(7)

Trivial source character table of  $G \cong C14 \times C2$  at p = 2: Normalisers  $N_i$ 

Normalisers $N_i$	$N_1$	$N_2$	$N_3$	$N_4$	$N_5$
p-subgroups of $G$ up to conjugacy in $G$	$P_1$	$P_2$	$P_3$	$P_4$	$P_5$
Representatives $n_j \in N_i$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	7f $1a$ $7a$ $7b$ $7c$ $7d$ $7e$ $7f$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{bmatrix} 1a & 7a & 7b & 7c & 7d & 7e & 7f \end{bmatrix}$
$\boxed{1 \cdot \chi_{1} + 1 \cdot \chi_{2} + 1 \cdot \chi_{3} + 1 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{25}$			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		$\begin{bmatrix} 5 & 0 & 0 & 0 & 0 & 0 & 0 \end{bmatrix}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		
$\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 + 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} + 1 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 1 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 $		0 0 0 0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0 0 0 0 0	0 0 0 0 0 0
$1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 1 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} +$					
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$2*E(7)^4 \mid 0 \qquad 0 \qquad 0 \qquad 0 \qquad 0$		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		$2 + 2 * E(7)^6 + 2 * E(7)^5 + 2 * E(7)^4 + 2 * E(7)^3 + 2 * E(7)^2 + 2 * E(7)^3 + 2 * E(7)^2 + 2 * E(7)^3 +$	$2*E(7) \mid 0 \qquad 0 \qquad 0 \qquad 0 \qquad 0$		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	70-0 70-0 70-0 70-0 70-0 70-0 70-0 70-0	$\begin{bmatrix} 5 \\ 2 \end{bmatrix} = 2 * E(7)^{2} = 2 * E(7)^{4} = 2 * E(7)^{6} = 2 * E(7) = 2 * E(7)^{3} = 2$	$2*E(7)^{5} \mid 0 \qquad 0 \qquad 0 \qquad 0 \qquad 0$		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		$\begin{bmatrix} 2 & 2 * E(7)^5 & 2 * E(7)^3 & 2 * E(7) & 2 * E(7)^6 & 2 * E(7)^4 & 2 \end{bmatrix}$	$2*E(7)^2 \mid 0 \qquad 0 \qquad 0 \qquad 0 \qquad 0$		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		$\begin{bmatrix} 6 & 2 & 2*E(7) & 2*E(7)^2 & 2*E(7)^3 & 2*E(7)^4 & 2*E(7)^5 & 2 \end{bmatrix}$	$2*E(7)^{6} \mid 0 \qquad 0 \qquad 0 \qquad 0 \qquad 0$		
$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 + 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} + 0 \cdot \chi_{21} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot $		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$2*E(7)^3 \mid 0 \qquad 0 \qquad 0 \qquad 0 \qquad 0$	0 0 0 0 0 0	0 0 0 0 0 0
$1 \cdot \chi_{1} + 1 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} +$			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		
$ 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} + 1 \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_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot$		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 2 $2*E(7)^3$ 2 $E(7)^6$ 2 $E(7)^2$ 2 $E(7)^5$ 2 $E(7)$ 2 $E(7)$ 2	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	70-0 70-0 70-0 70-0 70-0 70-0 70-0 70-0		$0   2   2 * E(7)^6   2 * E(7)^5   2 * E(7)^4   2 * E(7)^3   2 * E(7)^2   2 * E(7)^5   2 * E(7)^6   2 * E(7)$		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		$\begin{bmatrix} 5 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{bmatrix}$	$0   2   2 * E(7)^{2}   2 * E(7)^{4}   2 * E(7)^{6}   2 * E(7)   2 * E(7)^{3}   2 * E(7)^{4}$		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			0 2 $2*E(7)^5$ 2 $E(7)^3$ 2 $E(7)$ 2 $E(7)^6$ 2 $E(7)^4$ 2 $E(7)^4$ 2 $E(7)^6$ 2	$\begin{bmatrix} 2 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{bmatrix}$	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			0   2 $2*E(7)$   $2*E(7)^2$   $2*E(7)^3$   $2*E(7)^4$   $2*E(7)^5$   $2*E(7)^4$   $2*E(7)^5$   $2*E(7)^4$   $2*E(7)^5$		
$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} + 1 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 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} + 1 \cdot \chi_{17} + 1 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot $		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$0   2   2 * E(7)^4   2 * E(7)   2 * E(7)^5   2 * E(7)^2   2 * E(7)^6   2 * E(7)^6$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0 0 0 0 0
$1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 1 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} +$			0     0   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$			0     0   0   0   0   0	$2  2 * E(7)^3  2 * E(7)^6  2 * E(7)^2  2 * E(7)^5  2 * E(7)  2 * E(7)^5$	$(7)^4 \mid 0  0  0  0  0  0$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$2  2 * E(7)^{6}  2 * E(7)^{5}  2 * E(7)^{4}  2 * E(7)^{3}  2 * E(7)^{2}  2 * E(7)^{2}$	$(7) \mid 0  0  0  0  0  0      $
$0 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 1 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} +$		$\begin{bmatrix} 5 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ 2  2 * E(7)^5  2 * E(7)^3  2 * E(7)  2 * E(7)^6  2 * E(7)^4  2 * E(7)^6 $	$\frac{7}{10} \begin{vmatrix} 0 & 0 & 0 & 0 & 0 & 0 \end{vmatrix}$
$0 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 1 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 1 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} +$		$\begin{bmatrix} 0 & 0 & 0 & 0 & 0 & 0 \\ 2 & 0 & 0 & 0 & 0 & 0 \end{bmatrix}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\frac{7}{6} \begin{vmatrix} 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 &$
$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 + 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_{19} + 1 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{10} + 0 \cdot \chi_{10} + 0 \cdot \chi_{10} + 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} + 1 \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_{24} + 0 \cdot \chi_{25} + 0 \cdot $		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0 0 0 0 0 0	$2  2 * E(7)^4  2 * E(7)  2 * E(7)^5  2 * E(7)^2  2 * E(7)^6  2 * E(7)^6$	$7)^3 0 0 0 0 0 0 0$
$1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} +$	7620 1 7620 1 7620				
$0 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 1 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{10} +$		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$E(7)^{\circ}$   1 $E(7)$ $E(7)^{2}$ $E(7)^{3}$ $E(7)^{4}$ $E(7)^{5}$ $E(7)^{6}$	1 $E(7)$ $E(7)^2$ $E(7)^3$ $E(7)^4$ $E(7)^5$ $E(7)$	$\begin{bmatrix} 1 & E(7) & E(7)^2 & E(7)^3 & E(7)^4 & E(7)^5 & E(7)^6 \end{bmatrix}$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		$   1   E(7)^2   E(7)^4   E(7)^6   E(7)   E(7)^3 $	$E(7)^{3}$   1 $E(7)^{2}$ $E(7)^{4}$ $E(7)^{6}$ $E(7)$ $E(7)^{3}$ $E(7)^{5}$	1 $E(7)^2$ $E(7)^4$ $E(7)^6$ $E(7)$ $E(7)^3$ $E(7)$	$\begin{bmatrix} 5 \\ 4 \end{bmatrix} \begin{bmatrix} 1 \\ E(7)^2 \end{bmatrix} \underbrace{E(7)^4}_{6} \underbrace{E(7)^6}_{6} \underbrace{E(7)}_{6} \underbrace{E(7)^3}_{6} \underbrace{E(7)^5}_{6} \begin{bmatrix} 1 \\ 1 \end{bmatrix}$
$0 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{10} +$		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$E(7)^4 \mid 1  E(7)^3  E(7)^6  E(7)^2  E(7)^5  E(7)$	$1   E(7)^3   E(7)^6   E(7)^2   E(7)^5   E(7)   E(7)$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$0 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 1 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{10} + 0 \cdot \chi_{10} + 0 \cdot \chi_{10} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 1 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} +$		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$E(7)^3$   1 $E(7)^4$ $E(7)$ $E(7)^5$ $E(7)^2$ $E(7)^6$ $E(7)^3$	$1   E(7)^4   E(7)   E(7)^5   E(7)^2   E(7)^6   E(7)$	$\begin{bmatrix} 1 & E(7)^4 & E(7) & E(7)^5 & E(7)^2 & E(7)^6 & E(7)^3 \end{bmatrix}$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		$   1   E(7)^5   E(7)^3   E(7)   E(7)^6   E(7)^4 $	$E(7)^2 \mid 1  E(7)^5  E(7)^3  E(7)  E(7)^6  E(7)^4  E(7)^2$	1 $E(7)^5$ $E(7)^3$ $E(7)$ $E(7)^6$ $E(7)^4$ $E(7)$	$E(7)^{5}$ $E(7)^{5}$ $E(7)^{3}$ $E(7)$ $E(7)^{6}$ $E(7)^{4}$ $E(7)^{2}$
$1 + \frac{1}{2} (0.00000000000000000000000000000000000$	$\cdot \cdot $	$  1   E(7)^6   E(7)^5   E(7)^4   E(7)^3   E(7)^2$	$E(7) \mid 1  E(7)^6  E(7)^5  E(7)^4  E(7)^3  E(7)^2  E(7)$	$= 1   E(7)^6   E(7)^5   E(7)^4   E(7)^3   E(7)^2   E(7)^5$	)   1 $E(7)^6$ $E(7)^5$ $E(7)^4$ $E(7)^3$ $E(7)^2$ $E(7)$

$$\begin{split} P_1 &= Group([()]) \cong 1 \\ P_2 &= Group([(3,4)]) \cong C2 \\ P_3 &= Group([(1,2)]) \cong C2 \\ P_4 &= Group([(1,2)(3,4)]) \cong C2 \\ P_5 &= Group([(3,4),(1,2)]) \cong C2 \times C2 \end{split}$$

 $N_1 = Group([(1,2), (3,4), (5,6,7,8,9,10,11)]) \cong C14 \times C2$   $N_2 = Group([(1,2), (3,4), (5,6,7,8,9,10,11)]) \cong C14 \times C2$ 

 $N_3 = Group([(1,2), (3,4), (5,6,7,8,9,10,11)]) \cong C14 \times C2$   $N_4 = Group([(1,2), (3,4), (5,6,7,8,9,10,11)]) \cong C14 \times C2$   $N_5 = Group([(1,2), (3,4), (5,6,7,8,9,10,11)]) \cong C14 \times C2$