| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                    | 6e                          | 8a 8b 10a 12a | a 	 12b         | 12c                                   | 15a  | 15 <i>b</i>   | 24a  | 24b   | 30a                                    | 30b   |
|--|-----------------------------|---------------|-----------------|---------------------------------------|--|---|--|---|--|---|
| $\chi_1$ 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   |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                    | -1                          | 1 -1 1 1      | -1              | -1                                    | 1  | 1   | 1  | 1   | 1                                      | 1   |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                    | $(3)^2 - E(3) + E(3)^2$     | 0  0  1  0    | 0               | 0                                     | -1   | -1  | 0  | 0   | 1                                      | 1   |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                    | $(3)^2 = E(3) - E(3)^2 = 2$ | 0  0  1  0    | 0               | 0                                     | -1   | -1  | 0  | 0   | 1                                      | 1   |
| $\chi_5$   4 -4 0 4 1 -2 0 0 -1 -4 -1 2 0  | 0                           | 0  0  1  0    | $E(12)^{}7 - E$ | $E(12)^{}11 - E(12)^{}7 + E(12)^{}11$ | -1   | -1  | 0  | 0   | 1                                      | 1   |
| $\chi_6 \mid 4  -4  0  4  1  -2  0  0  -1  -4  -1  2  0$                                 | 0                           | 0  0  1  0    |                 | $E(12)^{}11  E(12)^{}7 - E(12)^{}11$  |  | -1  | 0  | 0   | 1                                      | 1   |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                    | 0                           | -1 $-1$ 0 1   | 1               | 1                                     | 0  | 0   | -1   | -1  | 0                                      | 0   |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                    | 0                           | -1  1  0  1   | -1              | -1                                    | 0  | 0   | -1   | -1  | 0                                      | 0   |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                    | -1                          | -1  1  0  1   | 0               | 0                                     | 0  | 0   | -1   | -1  | 0                                      | 0   |
| $\begin{vmatrix} \chi_{10} \\ \chi_{10} \end{vmatrix}$ 5 5 1 5 2 -1 -3 1 0 5 2 -1 1      | 1                           | -1 $-1$ 0 1   | 0               | 0                                     | 0  | 0   | -1   | -1  | 0                                      | 0   |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                    | 0                           | 2  0  1  1    | 0               | 0                                     | $-E(15) - E(15)^2 - E(15)^4 - E(15)^8$                 | $-E(15)^{} 7 - E(15)^{} 11 - E(15)^{} 13 - E(15)^{} 14$ | -1   | -1  | $-E(15) - E(15)^2 - E(15)^4 - E(15)^8$ | $-E(15)^{}7 - E(15)^{}11 - E(15)^{}13 - E(15)^{}14$     |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                    | 0                           | 2  0  1  1    | 0               | 0                                     | $-E(15)^{}7 - E(15)^{}11 - E(15)^{}13 - E(15)^{}14$    |   | -1   |   |  | $-E(15) - E(15)^2 - E(15)^4 - E(15)^8$                  |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                    | 0                           | 1  -1  -1  1  | 0               | 0                                     | -1   | -1  | 1  | 1   | -1                                     | -1  |
| $\left \begin{array}{cccccccccccccccccccccccccccccccccccc$                               | 0                           | 1 1 -1 1      | 0               | 0                                     | -1   | -1  | 1  | 1   | -1                                     | -1  |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                    | 1                           | 0  0  0  -2   | -1              | -1                                    | 0  | 0   | 0  | 0   | 0                                      | 0   |
| $\chi_{16}$   10   10   2   10   1   1   -2   -2   0   10   1   1   -1                   | -1                          | 0  0  0  -2   | 2 1             | 1                                     | 0  | 0   | 0  | 0   | 0                                      | 0   |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                    | 0                           | 0  0  2  -2   | 2 0             | 0                                     | -1   | -1  | 0  | 0   | -1                                     | -1  |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                    | 0                           | 0  0  -2  0   | 0               | 0                                     | -1   | -1  | $-E(24) - E(24)^{11} + E(24)^{17} + E(24)^{19}$      | $E(24) + E(24)^{} 11 - E(24)^{} 17 - E(24)^{} 19$ | 1                                      | 1   |
| $\left \begin{array}{c cccccccccccccccccccccccccccccccccc$                               | 0                           | 0  0  -2  0   | 0               | 0                                     | -1   |   | $E(24) + E(24)^{2} 11 - E(24)^{2} 17 - E(24)^{2} 19$ |   | 1                                      | 1   |
| $\left \begin{array}{c cccccccccccccccccccccccccccccccccc$                               | 0                           | 0  0  1  0    | 0               | 0                                     | 1  | 1   | 0  | 0   | 1                                      | 1   |
| $\begin{vmatrix} \chi_{21} \\ \chi_{21} \end{vmatrix}$ 16 -16 0 16 -2 -2 0 0 1 -16 2 2 0 | 0                           | 0  0  -1  0   | 0               | 0                                     | 1  | 1   | 0  | 0   | -1                                     | -1  |
| $\left \begin{array}{c cccccccccccccccccccccccccccccccccc$                               | 0                           | 2  0  -2  -1  | 1 0             | 0                                     | 1  | 1   | -1   | -1  | 1                                      | 1   |
| $\left \begin{array}{c cccccccccccccccccccccccccccccccccc$                               | 0                           | 0 0 0 0       | 0               | 0                                     | 0  | 0   | 0  | 0   | 0                                      | 0   |
| $\left \begin{array}{c cccccccccccccccccccccccccccccccccc$                               | 0                           | 0  0  1  0    | 0               | 0                                     | $E(15) + E(15)^2 + E(15)^4 + E(15)^8$                  | $E(15)^{7} + E(15)^{11} + E(15)^{13} + E(15)^{14}$      | 0  | 0   | $-E(15) - E(15)^2 - E(15)^4 - E(15)^8$ | $-E(15)^{} 7 - E(15)^{} 11 - E(15)^{} 13 - E(15)^{} 14$ |
| $\left \begin{array}{c cccccccccccccccccccccccccccccccccc$                               | 0                           | 0  0  1  0    | 0               | 0                                     | $E(15)^{} 7 + E(15)^{} 11 + E(15)^{} 13 + E(15)^{} 14$ | $E(15) + E(15)^2 + E(15)^4 + E(15)^8$                   | 0  |   |  | $-E(15) - E(15)^2 - E(15)^4 - E(15)^8$                  |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                    | 0                           | -2  0  0  1   | 0               | 0                                     | 0  | 0   | 1  | 1   | 0                                      | 0   |

Trivial source character table of G  $\cong$  (C6 . A6) : C2 at p = 5

| Normalisers $N_i$  |                                 |                   |                   |                        |                  |   | N <sub>1</sub>        |  |   |   |  |                | $\overline{N}$                | 0                      |  |                          |
|--|---------------------------------|-------------------|-------------------|------------------------|------------------|---|-----------------------|--|---|---|--|----------------|-------------------------------|------------------------|--|--------------------------|
| p - subgroups of $G$ up to conjugacy in $G$  |                                 |                   |                   |                        |                  |   | P,                    |  |   |   |  |                | $\frac{1}{D}$                 |                        |  |                          |
| Representatives $n_i \in N_i$  | 1a 2a 2h 3a                     | 3b $3c$ $4a$ $4b$ | 6a 6h 6a          | 6.4                    | 60               | 8a 8b 12a   | 19h                   | 190  | 24a   | 24h   | 1a $2a$ $3a$                                     | 1h 1h          | $\frac{1}{6a}$ $\frac{1}{8h}$ |                        | $\frac{1}{8h}$                             | $\frac{12a}{12a}$        |
| $\frac{1 \cdot x_1 + 0 \cdot x_2 + 0 \cdot x_3 + 0 \cdot x_4 + 0 \cdot x_5 + 0 \cdot x_6 + 0 \cdot x_7 + 0 \cdot x_8 + 0 \cdot x_9 + 0 \cdot x_{10} + 0 \cdot x_{11} + 0 \cdot x_{12} + 1 \cdot x_{13} + 0 \cdot x_{14} + 0 \cdot x_{15} + 0 \cdot x_{16} + 0 \cdot x_{17} + 0 \cdot x_{18} + 0 \cdot x_{21} + 0 \cdot x_{22} + 0 \cdot x_{23} + 0 \cdot x_{24} + 0 \cdot x_{25} + 0 $   |                                 |                   | 10 1 1            | 1                      | 1                | 2 0 2   | 120                   | 126  | 240   | 240   | 0 0 0  | 0 0            | $\frac{0a}{0}$                | 0 60                   | $\frac{3}{0}$ $\frac{30}{0}$ $\frac{1}{2}$ | $\frac{.2u}{0}$          |
| 761 761 761 761 761 761 761 761 761 761  | / (20                           |                   | 10 1 1            | 1                      | 1                | 2 0 2   | 1<br>1                | 1  | 2   | 2   |  | 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} + 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} + 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} + 1 \cdot \chi_{21} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot $  |                                 |                   | 20 4 1            | -1                     | $E(3) - E(3)^2$  | 0 0 0   | -1                    | <u>-1</u>                                    | 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_{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_{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} + 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 $  | 76-0                            |                   |                   | -E(3) + E(3)/2         | E(3) - E(3) - 2  | 0 0 0   | U<br>E(19)^7 E(19)^11 | $-E(12)^{}7 + E(12)^{}11$                    | 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_{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_{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} + 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 $  | 70-0                            |                   |                   | 0                      | 0                |   | ( / /                 | E(12) + E(12) = 11<br>E(12) - 7 - E(12) = 11 | 0   | 0   |  | 0 0            | 0 0                           | 0 0                    | 0 0  |                          |
|  | ,                               |                   | -20 1 4<br>20 4 1 | $E(2) \qquad E(2)^2 2$ | $-E(3) + E(3)^2$ |   | -E(12) + E(12) + 11   | E(12) = E(12) = 11                           | 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} + 1 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot $  |                                 |                   | -20 4 I           | E(3) - E(3) = 2        | - (°) · - (°) -  |   | 0                     | 0  | 1   | 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 + 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_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot $  |                                 |                   | 5 2 -1<br>5 0 1   | 1                      |                  | -1 $-1$ 1 $-1$ 1                                      | 0                     | 0  | - <u>1</u>  | -1<br>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 + 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_{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 $  |                                 |                   | 5 Z -1            | -1                     |                  | -1 1 1<br>-1 1 1                                      | 1                     | 0  | - <u>1</u>  | -1<br>1   |  | 0 0            | 0 0                           | 0 0                    | 0 0  |                          |
| $0\cdot\chi_{1}+0\cdot\chi_{2}+0\cdot\chi_{3}+0\cdot\chi_{4}+0\cdot\chi_{5}+0\cdot\chi_{6}+0\cdot\chi_{7}+1\cdot\chi_{8}+0\cdot\chi_{9}+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{15}+0\cdot\chi_{16}+0\cdot\chi_{17}+0\cdot\chi_{18}+0\cdot\chi_{20}+0\cdot\chi_{21}+0\cdot\chi_{22}+0\cdot\chi_{23}+0\cdot\chi_{24}+0\cdot\chi_{25}+0\cdot\chi_{19}+0$ |                                 |                   | 5 -1 2            | 0                      | -                |   | -1                    | -1<br>1                                      | -1<br>1   | -1  | 0 0 0  | 0 0            | 0 0                           | 0 0                    | 0 0  |                          |
| $0\cdot\chi_{1}+0\cdot\chi_{2}+0\cdot\chi_{3}+0\cdot\chi_{4}+0\cdot\chi_{5}+0\cdot\chi_{6}+1\cdot\chi_{7}+0\cdot\chi_{8}+0\cdot\chi_{9}+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{15}+0\cdot\chi_{16}+0\cdot\chi_{17}+0\cdot\chi_{18}+0\cdot\chi_{20}+0\cdot\chi_{21}+0\cdot\chi_{22}+0\cdot\chi_{23}+0\cdot\chi_{24}+0\cdot\chi_{25}+0\cdot\chi_{16}+0\cdot\chi_{17}+0\cdot\chi_{18}+0\cdot\chi_{19}+0$ |                                 |                   | 5 -1 2            | 0                      | 0                | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | 1                     | 1  | -1  | -1  |  | 0 0            | 0 0                           | 0 0                    | 0 0  |                          |
| $0\cdot\chi_{1}+0\cdot\chi_{2}+0\cdot\chi_{3}+0\cdot\chi_{4}+0\cdot\chi_{5}+0\cdot\chi_{6}+0\cdot\chi_{7}+0\cdot\chi_{8}+0\cdot\chi_{9}+0\cdot\chi_{10}+1\cdot\chi_{11}+1\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{15}+0\cdot\chi_{16}+0\cdot\chi_{17}+0\cdot\chi_{18}+0\cdot\chi_{19}+0\cdot\chi_{20}+0\cdot\chi_{21}+1\cdot\chi_{22}+0\cdot\chi_{23}+0\cdot\chi_{24}+0\cdot\chi_{25}+0\cdot\chi_{19}+0$ |                                 |                   |                   | 0                      | 0                | 0 0 1   | 0                     | 0  | -3  | -3  | 0 0 0  | 0 0            | 0 0                           | 0 0                    | 0 1  | 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} + 1 \cdot \chi_{13} + 0 \cdot \chi_{16} + 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_{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_{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 $  | 76-0                            |                   |                   | 0                      | 0                | 1 -1 1  | 0                     | 0  | 1   | 1   | 0 0 0  | 0 0            | 0 0                           | 0 0                    | 0 1  | 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} + 1 \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 $  |                                 |                   |                   | 0                      | 0                | 1 1 1   | 0                     | 0  |   | 1   | 0 0 0  | 0 0            | 0 0                           | 0 0                    | 0 1  | 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} + 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} + 0 \cdot $  | ,                               |                   |                   | -1                     | -1               | 0  0  -2  | 1                     | 1  | 0   | 0   | 0 0 0  | 0 0            | 0 0                           | 0 0                    | 0 1  | 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} + 1 \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 $  | 76-0                            |                   |                   | 1                      | 1                | 0  0  -2  | -1                    | -1   | U = E(04) \( \) E(04) \( \) 11 = E(04) \( \) 15 = E(04) \( \) 10 = E(04)  | U<br>E(04)\\(^11 \) E(04)\\(^15 \) E(04)\\(^16 \) |  | 0 0            | 0 0                           | 0 0                    | 0 1  | 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} + 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} + 1 \cdot \chi_{24} + 1 \cdot \chi_{25} + 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_{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} + 1 \cdot \chi_{24} + 1 \cdot \chi_{25} + 0 \cdot \chi_{10} + 0 \cdot $  |                                 |                   |                   | 0                      | 0                | 0 0 0   | 0                     | 0  | $E(24) + E(24)^{} 11 - E(24)^{} 17 - E(24)^{} 19 - E(24) - E(24)^{} 19$   |   |  | 0 0            | 0 0                           | 0 0                    | 0 1  | 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} + 0 \cdot \chi_{17} + 1 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 1 \cdot \chi_{24} + 1 \cdot \chi_{25} + 0 \cdot \chi_{10} + 0 \cdot $  |                                 |                   |                   | 0                      | 0                | 0 0 0   | 0                     | 0  | $-E(24) - E(24)^{} 11 + E(24)^{} 17 + E(24)^{} 19 $ $E(24) + E(24)^{} 19$ | -E(24) 11 $-E(24)$ 17 $-E(24)$ 19                 |  | 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_{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} + 1 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot $  |                                 |                   |                   | 0                      | ů.               | 2 	 0 	 -3  | 0                     | 0  | -1  | -1  | 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 + 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_{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_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{10} + 0 \cdot $  |                                 |                   |                   | 0                      | Ů.               | 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 + 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} + 1 \cdot \chi_{25} + 0 \cdot $  |                                 | 5  0  0  0  -2    | -15 	 0 	 0       | 0                      | 0                | -2 	 0 	 1  | 0                     | 0  | 1   | 1   | 0 0 0  | 0 0            | 0 0                           | 0 0                    | $\frac{1}{2}$                              | 0 0                      |
| $1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{10} +$   | 76-0                            | 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 \qquad 1 \qquad     $ |
| $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 $  | , ,                             | 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 \qquad 1 \qquad  $    |
| $0 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 1 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{10} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 1 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} +$   | 70-0                            |                   |                   | 0                      | 0                | 0  0  0   | 0                     | 0  | 0   | 0   | 1 1 1  | -1 $-1$        | 1 $E(4)$                      | -E(4) $E($             | -E(4) -                                    | -1 $-1$                  |
| $0 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 1 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 1 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} +$   | $\chi_{26} \mid 16  16  0  16$  | -2  -2  0  0      | 16  -2  -2        | 0                      | 0                | 0  0  0   | 0                     | 0  | 0   | 0   | 1 1 1  | -1 $-1$        | $1 \qquad -E(4)$              | E(4) $-E$              | $\mathcal{L}(4)$ $E(4)$ -                  | -1 $-1$                  |
| $0 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 1 \cdot \chi_{21} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{10} +$   | ,                               |                   |                   | 0                      | 0                | 0  0  0   | 0                     | 0  | 0   | 0   | 1 -1 1 -   | E(4) $E(4)$    | -1 $E(8)$                     | $E(8)^{} 3 \qquad -E$  | $L(8) - E(8)^3 E$                          | E(4) - E(4)              |
| $0 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 1 \cdot \chi_{21} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{10} +$   | $\chi_{26} \mid 16 - 16  0  16$ | -2 $-2$ 0 0       | -16 2 2           | 0                      | 0                | 0  0  0   | 0                     | 0  | 0   | 0   | 1 -1 1 -   | E(4) $E(4)$    | -1 - E(8)                     | $-E(8)^3$ $E($         | (8) $E(8)^3 = E$                           | E(4) - E(4)              |
|  | $\chi_{26} \mid 16 - 16  0  16$ | -2 $-2$ 0 0       | -16 2 2           | 0                      | 0                | 0  0  0   | 0                     | 0  | 0   | 0   | 1 -1 1 1   | E(4) $-E(4)$   | $-1 -E(8)^3$                  | $B - E(8) \qquad E(8)$ | 8) $^{}$ 3 $E(8) - E(8)$                   | E(4) $E(4)$              |
| $0 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{20} + 1 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} +$   | $\chi_{26} \mid 16 - 16  0  16$ | -2 $-2$ 0 0       | -16 2 2           | 0                      | 0                | 0  0  0   | 0                     | 0  | 0   | 0   | 1 -1 1 1   | E(4) $-E(4)$   | $-1  E(8)^{} 3$               | $E(8) \qquad -E(9)$    | $(8)^3 - E(8) - I$                         | E(4) $E(4)$              |
| $0 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} +$   |                                 |                   |                   | 0                      | 0                | 0  0  0   | 0                     | 0  | $E(24) + E(24)^{1} - E(24)^{1} - E(24)^{1} - E(24)^{2} - E(24)^{2}$       | $-E(24)^{}11 + E(24)^{}17 + E(24)^{}19$           | $\begin{vmatrix} 2 & -2 & -1 & -2 \end{vmatrix}$ | *E(4) $2*E(4)$ | 1 0                           | 0 (                    | $0 \qquad -I$                              | 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 + 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 $  | $\chi_{26} \mid 12 - 12  0  -6$ | 0  0  0  0        | 6 	 0 	 0         | 0                      | 0                | 0  0  0   | 0                     | 0  | $-E(24) - E(24)^{} 11 + E(24)^{} 17 + E(24)^{} 19 $ $E(24) + E(24)^{} 19$ | $-E(24)^{}11 - E(24)^{}17 - E(24)^{}19$           | 2 -2 -1 2*                                       | E(4) $-2*E(4)$ | .) 1 0                        | 0 (                    | 0 	 E                                      | 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 + 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 $  | $\chi_{26} \mid 12  12  0  -6$  | 6 0 0 0 4         | -6 	 0 	 0        | 0                      | 0                | 0  0  -2  | 0                     | 0  | 0   | 0   | 2 	 2 	 -1                                       | 2 2            | -1 0                          | 0 (                    | J 0 -                                      | -1 $-1$                  |
| $0 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} +$   | $\chi_{26} \mid 12  12  0  -6$  | 0  0  0  -4       | -6 	 0 	 0        | 0                      | 0                | 4  0  2   | 0                     | 0  | -2  | -2  | 2  2  -1   | -2 $-2$        | -1 0                          | 0 (                    | J 0  | 1 1                      |

 $P_1 = Group([()]) \cong 1$  $P_2 \cong C5$ 

 $N_1 \cong (C6 . A6) : C2$  $N_2 \cong C3 : (C5 : C8)$