# $M_{12}$ (mod 11)

| | blocks | defect | matrix |
|---|---|---|---|
| $G:$ | 1 | 1 | $7 \times 5$ |
| | 2 | 0 | $11_1 = \chi_2, \varphi_2$ |
| | 3 | 0 | $11_2 = \chi_3, \varphi_3$ |
| | 4 | 0 | $55_1 = \chi_8, \varphi_7$ |
| | 5 | 0 | $55_2 = \chi_9, \varphi_8$ |
| | 6 | 0 | $55_3 = \chi_{10}, \varphi_9$ |
| | 7 | 0 | $66_1 = \chi_{11}, \varphi_{10}$ |
| | 8 | 0 | $99_1 = \chi_{12}, \varphi_{12}$ |
| | 9 | 0 | $176_1 = \chi_{15}, \varphi_{13}$ |
| $2.G:$ | 10 | 1 | $7 \times 5$ |
| | 11 | 0 | $44_1 = \chi_{20}, \varphi_{18}$ |
| | $12 = \overline{11}$ | 0 | $44_2 = \chi_{21}, \varphi_{19}$ |
| | 13 | 0 | $110_1 = \chi_{22}, \varphi_{21}$ |
| | $14 = \overline{13}$ | 0 | $110_2 = \chi_{23}, \varphi_{22}$ |

| **Block 1:** | $\varphi_1$ | $\varphi_4$ | $\varphi_5$ | $\varphi_6$ | $\varphi_{11}$ |
|---|---|---|---|---|---|
| $1_1 = \chi_1$ | 1 | . | . | . | . |
| $16_1 = \chi_4$ | . | 1 | . | . | . |
| $16_2 = \chi_5$ | . | 1 | . | . | . |
| $45_1 = \chi_6$ | . | 1 | 1 | . | . |
| $54_1 = \chi_7$ | 1 | . | . | 1 | . |
| $120_1 = \chi_{13}$ | . | . | 1 | . | 1 |
| $144_1 = \chi_{14}$ | . | . | . | 1 | 1 |

$\varphi_1 = 1_1$
$\varphi_4 = 16_1$
$\varphi_5 = 29_1$
$\varphi_6 = 53_1$
$\varphi_{11} = 91_1$

| **Block 10:** | $\varphi_{14}$ | $\varphi_{15}$ | $\varphi_{16}$ | $\varphi_{17}$ | $\varphi_{20}$ |
|---|---|---|---|---|---|
| $10_1 = \chi_{16}$ | 1 | . | . | . | . |
| $10_2 = \chi_{17}$ | . | 1 | . | . | . |
| $12_1 = \chi_{18}$ | . | . | 1 | . | . |
| $32_1 = \chi_{19}$ | . | . | . | 1 | . |
| $120_2 = \chi_{24}$ | . | . | 1 | . | 1 |
| $160_1 = \chi_{25}$ | 1 | 1 | . | 1 | 1 |
| $160_2 = \chi_{26}$ | 1 | 1 | . | 1 | 1 |

$\varphi_{14} = 10_1$
$\varphi_{15} = 10_2$
$\varphi_{16} = 12_1$
$\varphi_{17} = 32_1$
$\varphi_{20} = 108_1$