

$U_3(4) \pmod{13}$

| | blocks | defect | matrix |
|-------|---------------|--------|----------------------------|
| $G :$ | 1 | 1 | 7×3 |
| | 2 | 0 | $13_1 = \chi_3, \varphi_3$ |
| | $3 = \bar{2}$ | 0 | $13_2 = \chi_4, \varphi_4$ |
| | 4 | 0 | $13_3 = \chi_5, \varphi_5$ |
| | $5 = \bar{4}$ | 0 | $13_4 = \chi_6, \varphi_6$ |
| | 6 | 0 | $39_1 = \chi_7, \varphi_7$ |
| | 7 | 0 | $39_2 = \chi_8, \varphi_8$ |
| | 8 | 0 | $52_1 = \chi_9, \varphi_9$ |

| | blocks | defect | matrix |
|--|-----------------|--------|----------------------------------|
| | $9 = \bar{8}$ | 0 | $52_2 = \chi_{10}, \varphi_{10}$ |
| | 10 | 0 | $52_3 = \chi_{11}, \varphi_{11}$ |
| | $11 = \bar{10}$ | 0 | $52_4 = \chi_{12}, \varphi_{12}$ |
| | 12 | 0 | $65_1 = \chi_{14}, \varphi_{14}$ |
| | 13 | 0 | $65_2 = \chi_{15}, \varphi_{15}$ |
| | $14 = \bar{13}$ | 0 | $65_3 = \chi_{16}, \varphi_{16}$ |
| | 15 | 0 | $65_4 = \chi_{17}, \varphi_{17}$ |
| | $16 = \bar{15}$ | 0 | $65_5 = \chi_{18}, \varphi_{18}$ |

| Block 1: | φ_1 | φ_2 | φ_{13} |
|--------------------|-------------|-------------|----------------|
| $1_1 = \chi_1$ | 1 | . | . |
| $12_1 = \chi_2$ | . | 1 | . |
| $64_1 = \chi_{13}$ | 1 | . | 1 |
| $75_1 = \chi_{19}$ | . | 1 | 1 |
| $75_2 = \chi_{20}$ | . | 1 | 1 |
| $75_3 = \chi_{21}$ | . | 1 | 1 |
| $75_4 = \chi_{22}$ | . | 1 | 1 |

$$\begin{aligned} \varphi_1 &= 1_1 \\ \varphi_2 &= 12_1 \\ \varphi_{13} &= 63_1 \end{aligned}$$