

## $L_2(13).2 \pmod{3}$

|       | blocks | defect | matrix                             |         | blocks | defect | matrix                                  |
|-------|--------|--------|------------------------------------|---------|--------|--------|---|
| $G :$ | 1      | 1      | $3 \times 2$                       | $2.G :$ | 10     | 0      | $12_7 = \chi_{10+}, \varphi_{8+}$       |
|       | 2      | 1      | $3 \times 2$                       |         | 11     | 0      | $12_8 = \chi_{12,0}, \varphi_{10,0}$    |
|       | 3      | 1      | $3 \times 1$                       |         | 12     | 0      | $12_9 = \chi_{12,1}, \varphi_{10,1}$    |
|       | 4      | 0      | $12_1 = \chi_{4,0}, \varphi_{4,0}$ |         | 13     | 0      | $12_{10} = \chi_{13,0}, \varphi_{11,0}$ |
|       | 5      | 0      | $12_2 = \chi_{4,1}, \varphi_{4,1}$ |         | 14     | 0      | $12_{11} = \chi_{13,1}, \varphi_{11,1}$ |
|       | 6      | 0      | $12_3 = \chi_{5,0}, \varphi_{5,0}$ |         | 15     | 0      | $12_{12} = \chi_{14,0}, \varphi_{12,0}$ |
|       | 7      | 0      | $12_4 = \chi_{5,1}, \varphi_{5,1}$ |         | 16     | 0      | $12_{13} = \chi_{14,1}, \varphi_{12,1}$ |
|       | 8      | 0      | $12_5 = \chi_{6,0}, \varphi_{6,0}$ |         | 17     | 1      | $3 \times 1$                            |
|       | 9      | 0      | $12_6 = \chi_{6,1}, \varphi_{6,1}$ |         | 18     | 1      | $3 \times 1$                            |

| Block 1:            | $\varphi_{1,0}$ | $\varphi_{7,1}$ |
|---------------------|-----------------|-----------------|
| $1_1 = \chi_{1,0}$  | 1               | .               |
| $13_2 = \chi_{7,1}$ | .               | 1               |
| $14_2 = \chi_{8,0}$ | 1               | 1               |

$$\begin{aligned} \varphi_{1,0} &= 1_1 \\ \varphi_{7,1} &= 13_2 \end{aligned}$$

| Block 2:            | $\varphi_{1,1}$ | $\varphi_{7,0}$ |
|---------------------|-----------------|-----------------|
| $1_2 = \chi_{1,1}$  | 1               | .               |
| $13_1 = \chi_{7,0}$ | .               | 1               |
| $14_3 = \chi_{8,1}$ | 1               | 1               |

$$\begin{aligned} \varphi_{1,1} &= 1_2 \\ \varphi_{7,0} &= 13_1 \end{aligned}$$

| Block 3:            | $\varphi_{2+}$ |
|---------------------|----------------|
| $14_1 = \chi_{2+}$  | 1              |
| $14_4 = \chi_{9,0}$ | 1              |
| $14_5 = \chi_{9,1}$ | 1              |

$$\varphi_{2+} = 14_1$$

| Block 17:               | $\varphi_{13,0}$ |
|-------------------------|------------------|
| $14_6 = \chi_{15,0}$    | 1                |
| $14_8 = \chi_{16,0}$    | 1                |
| $14_{10} = \chi_{17,0}$ | 1                |

$$\varphi_{13,0} = 14_2$$

| <b>Block 18:</b>        | $\varphi_{13,1}$ |
|-------------------------|------------------|
| $14_7 = \chi_{15,1}$    | 1                |
| $14_9 = \chi_{16,1}$    | 1                |
| $14_{11} = \chi_{17,1}$ | 1                |

$$\varphi_{13,1} = 14_3$$