

$$L_2(25).2_2 \pmod{2}$$

| | blocks | defect | matrix |
|-------|--------|--------|---------------|
| 2.G : | 1 | 5 | 15×3 |
| | 2 | 1 | 2×1 |
| | 3 | 1 | 2×1 |
| | 4 | 1 | 2×1 |
| | 5 | 4 | 7×1 |

| Block 1: | $\varphi_{1,0}$ | $\varphi_{2,0}$ | $\varphi_{3,0}$ | |
|----------------------|-----------------|-----------------|-----------------|------------------------|
| $1_1 = \chi_{1,0}$ | 1 | . | . | |
| $1_2 = \chi_{1,1}$ | 1 | . | . | |
| $13_1 = \chi_{2,0}$ | 1 | . | 1 | |
| $13_2 = \chi_{2,1}$ | 1 | . | 1 | |
| $13_3 = \chi_{3,0}$ | 1 | 1 | . | |
| $13_4 = \chi_{3,1}$ | 1 | 1 | . | |
| $25_1 = \chi_{10,0}$ | 1 | 1 | 1 | $\varphi_{1,0} = 1_1$ |
| $25_2 = \chi_{10,1}$ | 1 | 1 | 1 | $\varphi_{2,0} = 12_1$ |
| $26_3 = \chi_{12,0}$ | 2 | 1 | 1 | $\varphi_{3,0} = 12_2$ |
| $26_4 = \chi_{12,1}$ | 2 | 1 | 1 | |
| $12_1 = \chi_{16,0}$ | . | 1 | . | |
| $12_2 = \chi_{16,1}$ | . | 1 | . | |
| $12_3 = \chi_{17,0}$ | . | . | 1 | |
| $12_4 = \chi_{17,1}$ | . | . | 1 | |
| $52_2 = \chi_{24+}$ | 4 | 2 | 2 | |

| Block 2: | φ_{4+} | |
|---------------------|----------------|-----------------------|
| $48_1 = \chi_{4+}$ | 1 | $\varphi_{4+} = 48_1$ |
| $48_4 = \chi_{18+}$ | 1 | |

| Block 3: | φ_{6+} | |
|---------------------|----------------|-----------------------|
| $48_2 = \chi_{6+}$ | 1 | $\varphi_{6+} = 48_2$ |
| $48_5 = \chi_{20+}$ | 1 | |

| Block 4: | φ_{8+} |
|---------------------|----------------|
| $48_3 = \chi_{8+}$ | 1 |
| $48_6 = \chi_{22+}$ | 1 |

$$\varphi_{8+} = 48_3$$

| Block 5: | $\varphi_{10,0}$ |
|----------------------|------------------|
| $26_1 = \chi_{11,0}$ | 1 |
| $26_2 = \chi_{11,1}$ | 1 |
| $26_5 = \chi_{13,0}$ | 1 |
| $26_6 = \chi_{13,1}$ | 1 |
| $52_1 = \chi_{14+}$ | 2 |
| $52_3 = \chi_{26+}$ | 2 |
| $52_4 = \chi_{28+}$ | 2 |

$$\varphi_{10,0} = 26_1$$