

$L_2(81).4_2 \pmod{2}$

| | blocks | defect | matrix |
|-------|--------|--------|-------------------------------------|
| $G :$ | 1 | 6 | 16×2 |
| | 2 | 0 | $320_1 = \chi_{4+}, \varphi_{4+}$ |
| | 3 | 0 | $320_2 = \chi_{8+}, \varphi_{8+}$ |
| | 4 | 0 | $320_3 = \chi_{12+}, \varphi_{12+}$ |
| | 5 | 0 | $320_4 = \chi_{16+}, \varphi_{16+}$ |
| | 6 | 0 | $320_5 = \chi_{20+}, \varphi_{20+}$ |
| | 7 | 4 | 7×1 |

| Block 1: | $\varphi_{1,0}$ | $\varphi_{2,0+}$ | |
|------------------------|-----------------|------------------|-------------------------|
| $1_1 = \chi_{1,0}$ | 1 | . | |
| $1_2 = \chi_{1,1}$ | 1 | . | |
| $1_3 = \chi_{1,2}$ | 1 | . | |
| $1_4 = \chi_{1,3}$ | 1 | . | |
| $82_1 = \chi_{2,0+}$ | 2 | 1 | |
| $82_2 = \chi_{2,1+}$ | 2 | 1 | |
| $81_1 = \chi_{24,0}$ | 1 | 1 | $\varphi_{1,0} = 1_1$ |
| $81_2 = \chi_{24,1}$ | 1 | 1 | $\varphi_{2,0+} = 80_1$ |
| $81_3 = \chi_{24,2}$ | 1 | 1 | |
| $81_4 = \chi_{24,3}$ | 1 | 1 | |
| $82_3 = \chi_{25,0}$ | 2 | 1 | |
| $82_4 = \chi_{25,1}$ | 2 | 1 | |
| $82_5 = \chi_{25,2}$ | 2 | 1 | |
| $82_6 = \chi_{25,3}$ | 2 | 1 | |
| $164_3 = \chi_{28,0+}$ | 4 | 2 | |
| $164_4 = \chi_{28,1+}$ | 4 | 2 | |

| Block 7: | $\varphi_{24,0+}$ | |
|------------------------|-------------------|---------------------------|
| $164_1 = \chi_{26,0+}$ | 1 | |
| $164_2 = \chi_{26,1+}$ | 1 | |
| $164_5 = \chi_{30,0+}$ | 1 | $\varphi_{24,0+} = 164_1$ |
| $164_6 = \chi_{30,1+}$ | 1 | |
| $328_1 = \chi_{32+}$ | 2 | |
| $328_2 = \chi_{36+}$ | 2 | |
| $328_3 = \chi_{40+}$ | 2 | |