

$L_2(32).5 \pmod{3}$

| | blocks | defect | matrix |
|-------|--------------------|--------|-------------------------------------|
| $G :$ | 1 | 1 | 3×2 |
| | 2 | 1 | 3×2 |
| | 3 | 1 | 3×2 |
| | $4 = \overline{3}$ | 1 | 3×2 |
| | $5 = \overline{2}$ | 1 | 3×2 |
| | 6 | 1 | 3×1 |
| | 7 | 0 | $165_1 = \chi_{19+}, \varphi_{8+}$ |
| | 8 | 0 | $165_2 = \chi_{24+}, \varphi_{13+}$ |
| | 9 | 0 | $165_3 = \chi_{29+}, \varphi_{18+}$ |

| Block 1: | $\varphi_{1,0}$ | $\varphi_{2,0}$ | |
|----------------------|-----------------|-----------------|---|
| $1_1 = \chi_{1,0}$ | 1 | . | $\varphi_{1,0} = 1_1$ $\varphi_{2,0} = 31_1$ |
| $31_1 = \chi_{2,0}$ | . | 1 | |
| $32_1 = \chi_{18,0}$ | 1 | 1 | |

| Block 2: | $\varphi_{1,1}$ | $\varphi_{2,1}$ | |
|----------------------|-----------------|-----------------|---|
| $1_2 = \chi_{1,1}$ | 1 | . | $\varphi_{1,1} = 1_2$ $\varphi_{2,1} = 31_2$ |
| $31_2 = \chi_{2,1}$ | . | 1 | |
| $32_2 = \chi_{18,1}$ | 1 | 1 | |

| Block 3: | $\varphi_{1,2}$ | $\varphi_{2,2}$ | |
|----------------------|-----------------|-----------------|---|
| $1_3 = \chi_{1,2}$ | 1 | . | $\varphi_{1,2} = 1_3$ $\varphi_{2,2} = 31_3$ |
| $31_3 = \chi_{2,2}$ | . | 1 | |
| $32_3 = \chi_{18,2}$ | 1 | 1 | |

| Block 4: | $\varphi_{1,3}$ | $\varphi_{2,3}$ | |
|----------------------|-----------------|-----------------|---|
| $1_4 = \chi_{1,3}$ | 1 | . | $\varphi_{1,3} = 1_4$ $\varphi_{2,3} = 31_4$ |
| $31_4 = \chi_{2,3}$ | . | 1 | |
| $32_4 = \chi_{18,3}$ | 1 | 1 | |

| Block 5: | $\varphi_{1,4}$ | $\varphi_{2,4}$ | |
|----------------------|-----------------|-----------------|------------------------|
| $1_5 = \chi_{1,4}$ | 1 | . | $\varphi_{1,4} = 1_5$ |
| $31_5 = \chi_{2,4}$ | . | 1 | $\varphi_{2,4} = 31_5$ |
| $32_5 = \chi_{18,4}$ | 1 | 1 | |

| Block 6: | φ_{3+} | |
|----------------------|----------------|------------------------|
| $155_1 = \chi_{3+}$ | 1 | $\varphi_{3+} = 155_1$ |
| $155_2 = \chi_{8+}$ | 1 | |
| $155_3 = \chi_{13+}$ | 1 | |