

$A_{12} \pmod{11}$

| | blocks | defect | matrix |
|---------|----------------------|--------|------------------------------------|
| $G :$ | 1 | 1 | 7×5 |
| | 2 | 0 | $11_1 = \chi_2, \varphi_2$ |
| | 3 | 0 | $55_1 = \chi_4, \varphi_4$ |
| | 4 | 0 | $132_1 = \chi_5, \varphi_5$ |
| | 5 | 0 | $154_1 = \chi_6, \varphi_6$ |
| | 6 | 0 | $165_1 = \chi_7, \varphi_7$ |
| | 7 | 0 | $275_1 = \chi_8, \varphi_9$ |
| | 8 | 0 | $297_1 = \chi_9, \varphi_{10}$ |
| | 9 | 0 | $330_1 = \chi_{11}, \varphi_{11}$ |
| | 10 | 0 | $462_1 = \chi_{12}, \varphi_{12}$ |
| | 11 | 0 | $462_2 = \chi_{13}, \varphi_{13}$ |
| | 12 | 0 | $616_1 = \chi_{14}, \varphi_{14}$ |
| | 13 | 0 | $891_1 = \chi_{15}, \varphi_{16}$ |
| | 14 | 0 | $1155_1 = \chi_{19}, \varphi_{18}$ |
| | 15 | 0 | $1320_1 = \chi_{20}, \varphi_{19}$ |
| | 16 | 0 | $1320_2 = \chi_{21}, \varphi_{20}$ |
| | $17 = \overline{16}$ | 0 | $1320_3 = \chi_{22}, \varphi_{21}$ |
| | 18 | 0 | $1408_1 = \chi_{23}, \varphi_{22}$ |
| | 19 | 0 | $1485_1 = \chi_{24}, \varphi_{23}$ |
| | 20 | 0 | $1650_1 = \chi_{25}, \varphi_{24}$ |
| | 21 | 0 | $1925_1 = \chi_{27}, \varphi_{25}$ |
| | 22 | 0 | $1925_2 = \chi_{28}, \varphi_{26}$ |
| | 23 | 0 | $2079_1 = \chi_{29}, \varphi_{27}$ |
| | 24 | 0 | $2112_1 = \chi_{30}, \varphi_{28}$ |
| | 25 | 0 | $2376_1 = \chi_{31}, \varphi_{29}$ |
| | 26 | 0 | $2673_1 = \chi_{32}, \varphi_{30}$ |
| | 27 | 0 | $2970_1 = \chi_{33}, \varphi_{31}$ |
| | 28 | 0 | $3080_1 = \chi_{34}, \varphi_{32}$ |
| | 29 | 0 | $3520_1 = \chi_{35}, \varphi_{33}$ |
| | 30 | 0 | $3564_1 = \chi_{36}, \varphi_{34}$ |
| | 31 | 0 | $3696_1 = \chi_{37}, \varphi_{35}$ |
| | 32 | 0 | $3850_1 = \chi_{38}, \varphi_{36}$ |
| | $33 = \overline{32}$ | 0 | $3850_2 = \chi_{39}, \varphi_{37}$ |
| | 34 | 0 | $4158_1 = \chi_{40}, \varphi_{38}$ |
| | 35 | 0 | $4455_1 = \chi_{41}, \varphi_{39}$ |
| | 36 | 0 | $5632_1 = \chi_{42}, \varphi_{40}$ |
| | 37 | 0 | $5775_1 = \chi_{43}, \varphi_{41}$ |
| $2.G :$ | 38 | 1 | 7×5 |
| | 39 | 0 | $704_1 = \chi_{47}, \varphi_{44}$ |
| | $40 = \overline{39}$ | 0 | $704_2 = \chi_{48}, \varphi_{45}$ |

| | blocks | defect | matrix |
|--|----------------------|--------|------------------------------------|
| | 41 | 0 | $1408_2 = \chi_{49}, \varphi_{46}$ |
| | 42 | 0 | $1408_3 = \chi_{50}, \varphi_{47}$ |
| | 43 | 0 | $1760_1 = \chi_{51}, \varphi_{49}$ |
| | 44 | 0 | $1760_2 = \chi_{52}, \varphi_{50}$ |
| | $45 = \overline{44}$ | 0 | $1760_3 = \chi_{53}, \varphi_{51}$ |
| | 46 | 0 | $1760_4 = \chi_{54}, \varphi_{52}$ |
| | 47 | 0 | $1760_5 = \chi_{55}, \varphi_{53}$ |
| | 48 | 0 | $2112_2 = \chi_{57}, \varphi_{54}$ |
| | $49 = \overline{48}$ | 0 | $2112_3 = \chi_{58}, \varphi_{55}$ |
| | 50 | 0 | $2640_1 = \chi_{59}, \varphi_{56}$ |
| | $51 = \overline{50}$ | 0 | $2640_2 = \chi_{60}, \varphi_{57}$ |
| | 52 | 0 | $5632_2 = \chi_{63}, \varphi_{60}$ |
| | 53 | 0 | $7392_1 = \chi_{64}, \varphi_{61}$ |

| Block 1: | φ_1 | φ_3 | φ_8 | φ_{15} | φ_{17} | |
|----------------------|-------------|-------------|-------------|----------------|----------------|-------------------------|
| $1_1 = \chi_1$ | 1 | . | . | . | . | $\varphi_1 = 1_1$ |
| $54_1 = \chi_3$ | 1 | 1 | . | . | . | $\varphi_3 = 53_1$ |
| $320_1 = \chi_{10}$ | . | 1 | 1 | . | . | $\varphi_8 = 267_1$ |
| $945_1 = \chi_{16}$ | . | . | 1 | 1 | . | $\varphi_{15} = 678_1$ |
| $1050_1 = \chi_{17}$ | . | . | . | . | 1 | $\varphi_{17} = 1050_1$ |
| $1050_2 = \chi_{18}$ | . | . | . | . | 1 | |
| $1728_1 = \chi_{26}$ | . | . | . | 1 | 1 | |

| Block 38: | φ_{42} | φ_{43} | φ_{48} | φ_{58} | φ_{59} | |
|----------------------|----------------|----------------|----------------|----------------|----------------|-------------------------|
| $32_1 = \chi_{44}$ | 1 | . | . | . | . | $\varphi_{42} = 32_1$ |
| $160_1 = \chi_{45}$ | 1 | 1 | . | . | . | $\varphi_{43} = 128_1$ |
| $160_2 = \chi_{46}$ | 1 | 1 | . | . | . | $\varphi_{48} = 1664_1$ |
| $1792_1 = \chi_{56}$ | . | 1 | 1 | . | . | $\varphi_{58} = 3840_1$ |
| $3840_1 = \chi_{61}$ | . | . | . | 1 | . | $\varphi_{59} = 3936_1$ |
| $5600_1 = \chi_{62}$ | . | . | 1 | . | 1 | |
| $7776_1 = \chi_{65}$ | . | . | . | 1 | 1 | |