

$A_{16}.2 \pmod{11}$

| | blocks | defect | matrix |
|-------|--------|--------|---|
| $G :$ | 1 | 1 | 11×10 |
| | 2 | 1 | 11×10 |
| | 3 | 1 | 11×10 |
| | 4 | 1 | 11×10 |
| | 5 | 1 | 11×10 |
| | 6 | 1 | 11×10 |
| | 7 | 1 | 11×10 |
| | 8 | 0 | $440_1 = \chi_{5,0}, \varphi_{5,0}$ |
| | 9 | 0 | $440_2 = \chi_{5,1}, \varphi_{5,1}$ |
| | 10 | 0 | $1430_1 = \chi_{10,0}, \varphi_{10,0}$ |
| | 11 | 0 | $1430_2 = \chi_{10,1}, \varphi_{10,1}$ |
| | 12 | 0 | $2640_1 = \chi_{12,0}, \varphi_{12,0}$ |
| | 13 | 0 | $2640_2 = \chi_{12,1}, \varphi_{12,1}$ |
| | 14 | 0 | $3003_1 = \chi_{13,0}, \varphi_{13,0}$ |
| | 15 | 0 | $3003_2 = \chi_{13,1}, \varphi_{13,1}$ |
| | 16 | 0 | $3432_1 = \chi_{14,0}, \varphi_{15,0}$ |
| | 17 | 0 | $3432_2 = \chi_{14,1}, \varphi_{15,1}$ |
| | 18 | 0 | $4004_1 = \chi_{17,0}, \varphi_{17,0}$ |
| | 19 | 0 | $4004_2 = \chi_{17,1}, \varphi_{17,1}$ |
| | 20 | 0 | $5005_1 = \chi_{18,0}, \varphi_{18,0}$ |
| | 21 | 0 | $5005_2 = \chi_{18,1}, \varphi_{18,1}$ |
| | 22 | 0 | $6435_1 = \chi_{19,0}, \varphi_{19,0}$ |
| | 23 | 0 | $6435_2 = \chi_{19,1}, \varphi_{19,1}$ |
| | 24 | 0 | $13860_1 = \chi_{24,0}, \varphi_{24,0}$ |
| | 25 | 0 | $13860_2 = \chi_{24,1}, \varphi_{24,1}$ |
| | 26 | 0 | $14300_1 = \chi_{25,0}, \varphi_{25,0}$ |
| | 27 | 0 | $14300_2 = \chi_{25,1}, \varphi_{25,1}$ |
| | 28 | 0 | $18018_1 = \chi_{27,0}, \varphi_{27,0}$ |
| | 29 | 0 | $18018_2 = \chi_{27,1}, \varphi_{27,1}$ |
| | 30 | 0 | $20020_1 = \chi_{28,0}, \varphi_{29,0}$ |
| | 31 | 0 | $20020_2 = \chi_{28,1}, \varphi_{29,1}$ |
| | 32 | 0 | $23100_1 = \chi_{32,0}, \varphi_{33,0}$ |
| | 33 | 0 | $23100_2 = \chi_{32,1}, \varphi_{33,1}$ |
| | 34 | 0 | $24024_1 = \chi_{22+}, \varphi_{22+}$ |
| | 35 | 0 | $24024_2 = \chi_{33,0}, \varphi_{34,0}$ |
| | 36 | 0 | $24024_3 = \chi_{33,1}, \varphi_{34,1}$ |
| | 37 | 0 | $30030_1 = \chi_{35,0}, \varphi_{37,0}$ |
| | 38 | 0 | $30030_2 = \chi_{35,1}, \varphi_{37,1}$ |
| | 39 | 0 | $32032_1 = \chi_{36,0}, \varphi_{39,0}$ |
| | 40 | 0 | $32032_2 = \chi_{36,1}, \varphi_{39,1}$ |

| | blocks | defect | matrix |
|--|--------|--------|--|
| | 41 | 0 | $36036_1 = \chi_{37,0}, \varphi_{40,0}$ |
| | 42 | 0 | $36036_2 = \chi_{37,1}, \varphi_{40,1}$ |
| | 43 | 0 | $36608_1 = \chi_{38,0}, \varphi_{41,0}$ |
| | 44 | 0 | $36608_2 = \chi_{38,1}, \varphi_{41,1}$ |
| | 45 | 0 | $42042_1 = \chi_{29+}, \varphi_{30+}$ |
| | 46 | 0 | $43120_1 = \chi_{41,0}, \varphi_{42,0}$ |
| | 47 | 0 | $43120_2 = \chi_{41,1}, \varphi_{42,1}$ |
| | 48 | 0 | $45760_1 = \chi_{42,0}, \varphi_{43,0}$ |
| | 49 | 0 | $45760_2 = \chi_{42,1}, \varphi_{43,1}$ |
| | 50 | 0 | $51480_1 = \chi_{43,0}, \varphi_{45,0}$ |
| | 51 | 0 | $51480_2 = \chi_{43,1}, \varphi_{45,1}$ |
| | 52 | 0 | $60060_1 = \chi_{44,0}, \varphi_{49,0}$ |
| | 53 | 0 | $60060_2 = \chi_{44,1}, \varphi_{49,1}$ |
| | 54 | 0 | $60060_3 = \chi_{45,0}, \varphi_{50,0}$ |
| | 55 | 0 | $60060_4 = \chi_{45,1}, \varphi_{50,1}$ |
| | 56 | 0 | $68640_1 = \chi_{47,0}, \varphi_{53,0}$ |
| | 57 | 0 | $68640_2 = \chi_{47,1}, \varphi_{53,1}$ |
| | 58 | 0 | $71500_1 = \chi_{49,0}, \varphi_{55,0}$ |
| | 59 | 0 | $71500_2 = \chi_{49,1}, \varphi_{55,1}$ |
| | 60 | 0 | $82368_1 = \chi_{54,0}, \varphi_{56,0}$ |
| | 61 | 0 | $82368_2 = \chi_{54,1}, \varphi_{56,1}$ |
| | 62 | 0 | $85800_1 = \chi_{55,0}, \varphi_{57,0}$ |
| | 63 | 0 | $85800_2 = \chi_{55,1}, \varphi_{57,1}$ |
| | 64 | 0 | $91520_1 = \chi_{56,0}, \varphi_{58,0}$ |
| | 65 | 0 | $91520_2 = \chi_{56,1}, \varphi_{58,1}$ |
| | 66 | 0 | $100100_1 = \chi_{58,0}, \varphi_{59,0}$ |
| | 67 | 0 | $100100_2 = \chi_{58,1}, \varphi_{59,1}$ |
| | 68 | 0 | $105600_1 = \chi_{59,0}, \varphi_{60,0}$ |
| | 69 | 0 | $105600_2 = \chi_{59,1}, \varphi_{60,1}$ |
| | 70 | 0 | $112112_1 = \chi_{60,0}, \varphi_{61,0}$ |
| | 71 | 0 | $112112_2 = \chi_{60,1}, \varphi_{61,1}$ |
| | 72 | 0 | $112112_3 = \chi_{61,0}, \varphi_{62,0}$ |
| | 73 | 0 | $112112_4 = \chi_{61,1}, \varphi_{62,1}$ |
| | 74 | 0 | $114400_1 = \chi_{62,0}, \varphi_{63,0}$ |
| | 75 | 0 | $114400_2 = \chi_{62,1}, \varphi_{63,1}$ |
| | 76 | 0 | $115830_1 = \chi_{64,0}, \varphi_{64,0}$ |
| | 77 | 0 | $115830_2 = \chi_{64,1}, \varphi_{64,1}$ |
| | 78 | 0 | $140140_1 = \chi_{68,0}, \varphi_{67,0}$ |
| | 79 | 0 | $140140_2 = \chi_{68,1}, \varphi_{67,1}$ |
| | 80 | 0 | $150150_1 = \chi_{69,0}, \varphi_{68,0}$ |

| | blocks | defect | matrix |
|--|--------|--------|--|
| | 81 | 0 | $150150_2 = \chi_{69,1}, \varphi_{68,1}$ |
| | 82 | 0 | $150150_3 = \chi_{70,0}, \varphi_{69,0}$ |
| | 83 | 0 | $150150_4 = \chi_{70,1}, \varphi_{69,1}$ |
| | 84 | 0 | $155232_1 = \chi_{71,0}, \varphi_{70,0}$ |
| | 85 | 0 | $155232_2 = \chi_{71,1}, \varphi_{70,1}$ |
| | 86 | 0 | $168168_1 = \chi_{72,0}, \varphi_{71,1}$ |
| | 87 | 0 | $168168_2 = \chi_{72,1}, \varphi_{71,0}$ |
| | 88 | 0 | $171600_1 = \chi_{73,0}, \varphi_{72,0}$ |
| | 89 | 0 | $171600_2 = \chi_{73,1}, \varphi_{72,1}$ |
| | 90 | 0 | $173250_1 = \chi_{74,0}, \varphi_{73,0}$ |
| | 91 | 0 | $173250_2 = \chi_{74,1}, \varphi_{73,1}$ |
| | 92 | 0 | $180180_1 = \chi_{75,0}, \varphi_{74,0}$ |
| | 93 | 0 | $180180_2 = \chi_{75,1}, \varphi_{74,1}$ |
| | 94 | 0 | $180180_3 = \chi_{76,0}, \varphi_{75,0}$ |
| | 95 | 0 | $180180_4 = \chi_{76,1}, \varphi_{75,1}$ |
| | 96 | 0 | $194040_1 = \chi_{77,0}, \varphi_{77,0}$ |
| | 97 | 0 | $194040_2 = \chi_{77,1}, \varphi_{77,1}$ |
| | 98 | 0 | $197120_1 = \chi_{78,0}, \varphi_{78,0}$ |
| | 99 | 0 | $197120_2 = \chi_{78,1}, \varphi_{78,1}$ |
| | 100 | 0 | $200200_1 = \chi_{79,0}, \varphi_{79,0}$ |
| | 101 | 0 | $200200_2 = \chi_{79,1}, \varphi_{79,1}$ |
| | 102 | 0 | $200200_3 = \chi_{80,0}, \varphi_{80,0}$ |
| | 103 | 0 | $200200_4 = \chi_{80,1}, \varphi_{80,1}$ |
| | 104 | 0 | $210210_1 = \chi_{84,0}, \varphi_{84,0}$ |
| | 105 | 0 | $210210_2 = \chi_{84,1}, \varphi_{84,1}$ |
| | 106 | 0 | $231660_1 = \chi_{85,0}, \varphi_{85,0}$ |
| | 107 | 0 | $231660_2 = \chi_{85,1}, \varphi_{85,1}$ |
| | 108 | 0 | $240240_1 = \chi_{86,0}, \varphi_{87,0}$ |
| | 109 | 0 | $240240_2 = \chi_{86,1}, \varphi_{87,1}$ |
| | 110 | 0 | $240240_3 = \chi_{87,0}, \varphi_{88,0}$ |
| | 111 | 0 | $240240_4 = \chi_{87,1}, \varphi_{88,1}$ |
| | 112 | 0 | $250250_1 = \chi_{66+}, \varphi_{65+}$ |
| | 113 | 0 | $280280_1 = \chi_{90,0}, \varphi_{91,0}$ |
| | 114 | 0 | $280280_2 = \chi_{90,1}, \varphi_{91,1}$ |
| | 115 | 0 | $280280_3 = \chi_{91,0}, \varphi_{92,0}$ |
| | 116 | 0 | $280280_4 = \chi_{91,1}, \varphi_{92,1}$ |
| | 117 | 0 | $292864_1 = \chi_{92,0}, \varphi_{93,0}$ |
| | 118 | 0 | $292864_2 = \chi_{92,1}, \varphi_{93,1}$ |
| | 119 | 0 | $300300_1 = \chi_{93,0}, \varphi_{94,0}$ |
| | 120 | 0 | $300300_2 = \chi_{93,1}, \varphi_{94,1}$ |

| | blocks | defect | matrix |
|--|--------|--------|---|
| | 121 | 0 | $320320_1 = \chi_{96,0}, \varphi_{96,0}$ |
| | 122 | 0 | $320320_2 = \chi_{96,1}, \varphi_{96,1}$ |
| | 123 | 0 | $336336_1 = \chi_{97,0}, \varphi_{97,0}$ |
| | 124 | 0 | $336336_2 = \chi_{97,1}, \varphi_{97,1}$ |
| | 125 | 0 | $337920_1 = \chi_{98,0}, \varphi_{98,0}$ |
| | 126 | 0 | $337920_2 = \chi_{98,1}, \varphi_{98,1}$ |
| | 127 | 0 | $360360_1 = \chi_{99,0}, \varphi_{99,0}$ |
| | 128 | 0 | $360360_2 = \chi_{99,1}, \varphi_{99,1}$ |
| | 129 | 0 | $360360_3 = \chi_{100,0}, \varphi_{100,0}$ |
| | 130 | 0 | $360360_4 = \chi_{100,1}, \varphi_{100,1}$ |
| | 131 | 0 | $404250_1 = \chi_{81+}, \varphi_{81+}$ |
| | 132 | 0 | $411840_1 = \chi_{101,0}, \varphi_{102,0}$ |
| | 133 | 0 | $411840_2 = \chi_{101,1}, \varphi_{102,1}$ |
| | 134 | 0 | $416988_1 = \chi_{102,0}, \varphi_{103,0}$ |
| | 135 | 0 | $416988_2 = \chi_{102,1}, \varphi_{103,1}$ |
| | 136 | 0 | $429000_1 = \chi_{103,0}, \varphi_{105,0}$ |
| | 137 | 0 | $429000_2 = \chi_{103,1}, \varphi_{105,1}$ |
| | 138 | 0 | $429000_3 = \chi_{104,0}, \varphi_{106,0}$ |
| | 139 | 0 | $429000_4 = \chi_{104,1}, \varphi_{106,1}$ |
| | 140 | 0 | $448448_1 = \chi_{105,0}, \varphi_{107,0}$ |
| | 141 | 0 | $448448_2 = \chi_{105,1}, \varphi_{107,1}$ |
| | 142 | 0 | $480480_1 = \chi_{108,0}, \varphi_{109,0}$ |
| | 143 | 0 | $480480_2 = \chi_{108,1}, \varphi_{109,1}$ |
| | 144 | 0 | $500500_1 = \chi_{109,0}, \varphi_{110,0}$ |
| | 145 | 0 | $500500_2 = \chi_{109,1}, \varphi_{110,1}$ |
| | 146 | 0 | $512512_1 = \chi_{110,0}, \varphi_{111,0}$ |
| | 147 | 0 | $512512_2 = \chi_{110,1}, \varphi_{111,1}$ |
| | 148 | 0 | $549120_1 = \chi_{112,0}, \varphi_{112,0}$ |
| | 149 | 0 | $549120_2 = \chi_{112,1}, \varphi_{112,1}$ |
| | 150 | 0 | $600600_1 = \chi_{115,0}, \varphi_{113,0}$ |
| | 151 | 0 | $600600_2 = \chi_{115,1}, \varphi_{113,1}$ |
| | 152 | 0 | $630630_1 = \chi_{116,0}, \varphi_{114,0}$ |
| | 153 | 0 | $630630_2 = \chi_{116,1}, \varphi_{114,1}$ |
| | 154 | 0 | $630630_3 = \chi_{117,0}, \varphi_{115,0}$ |
| | 155 | 0 | $630630_4 = \chi_{117,1}, \varphi_{115,1}$ |
| | 156 | 0 | $640640_1 = \chi_{118,0}, \varphi_{116,0}$ |
| | 157 | 0 | $640640_2 = \chi_{118,1}, \varphi_{116,1}$ |
| | 158 | 0 | $648648_1 = \chi_{119,0}, \varphi_{117,0}$ |
| | 159 | 0 | $648648_2 = \chi_{119,1}, \varphi_{117,1}$ |
| | 160 | 0 | $1153152_1 = \chi_{123,0}, \varphi_{118,0}$ |

| | | | |
|--|--------|--------|---|
| | blocks | defect | matrix |
| | 161 | 0 | $1153152_2 = \chi_{123,1}, \varphi_{118,1}$ |

| Block 1: | $\varphi_{1,0}$ | $\varphi_{9,1}$ | $\varphi_{16,0}$ | $\varphi_{20,1}$ | $\varphi_{32,0}$ | $\varphi_{36,1}$ | $\varphi_{38,1}$ | $\varphi_{44,1}$ | $\varphi_{46,0}$ | $\varphi_{52,0}$ |
|--------------------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| $1_1 = \chi_{1,0}$ | 1 | . | . | . | . | . | . | . | . | . |
| $1365_2 = \chi_{9,1}$ | . | 1 | . | . | . | . | . | . | . | . |
| $3640_1 = \chi_{15,0}$ | 1 | . | 1 | . | . | . | . | . | . | . |
| $11648_2 = \chi_{21,1}$ | . | 1 | . | 1 | . | . | . | . | . | . |
| $24960_1 = \chi_{34,0}$ | . | . | 1 | . | 1 | . | . | . | . | . |
| $42120_2 = \chi_{40,1}$ | . | . | . | 1 | . | . | 1 | . | . | . |
| $73710_1 = \chi_{51,0}$ | . | . | . | . | 1 | . | . | . | 1 | . |
| $76440_2 = \chi_{52,1}$ | . | . | . | . | . | 1 | . | 1 | . | . |
| $80640_2 = \chi_{53,1}$ | . | . | . | . | . | . | 1 | 1 | . | . |
| $91728_1 = \chi_{57,0}$ | . | . | . | . | . | 1 | . | . | . | 1 |
| $116480_1 = \chi_{65,0}$ | . | . | . | . | . | . | . | . | 1 | 1 |

$$\begin{aligned}
\varphi_{1,0} &= 1_1 & \varphi_{36,1} &= 27637_2 \\
\varphi_{9,1} &= 1365_2 & \varphi_{38,1} &= 31837_2 \\
\varphi_{16,0} &= 3639_1 & \varphi_{44,1} &= 48803_2 \\
\varphi_{20,1} &= 10283_2 & \varphi_{46,0} &= 52389_1 \\
\varphi_{32,0} &= 21321_1 & \varphi_{52,0} &= 64091_1
\end{aligned}$$

| Block 2: | $\varphi_{1,1}$ | $\varphi_{9,0}$ | $\varphi_{16,1}$ | $\varphi_{20,0}$ | $\varphi_{32,1}$ | $\varphi_{36,0}$ | $\varphi_{38,0}$ | $\varphi_{44,0}$ | $\varphi_{46,1}$ | $\varphi_{52,1}$ |
|--------------------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| $1_2 = \chi_{1,1}$ | 1 | . | . | . | . | . | . | . | . | . |
| $1365_1 = \chi_{9,0}$ | . | 1 | . | . | . | . | . | . | . | . |
| $3640_2 = \chi_{15,1}$ | 1 | . | 1 | . | . | . | . | . | . | . |
| $11648_1 = \chi_{21,0}$ | . | 1 | . | 1 | . | . | . | . | . | . |
| $24960_2 = \chi_{34,1}$ | . | . | 1 | . | 1 | . | . | . | . | . |
| $42120_1 = \chi_{40,0}$ | . | . | . | 1 | . | . | 1 | . | . | . |
| $73710_2 = \chi_{51,1}$ | . | . | . | . | 1 | . | . | . | 1 | . |
| $76440_1 = \chi_{52,0}$ | . | . | . | . | . | 1 | . | 1 | . | . |
| $80640_1 = \chi_{53,0}$ | . | . | . | . | . | . | 1 | 1 | . | . |
| $91728_2 = \chi_{57,1}$ | . | . | . | . | . | 1 | . | . | . | 1 |
| $116480_2 = \chi_{65,1}$ | . | . | . | . | . | . | . | . | 1 | 1 |

$$\begin{aligned}
\varphi_{1,1} &= 1_2 & \varphi_{36,0} &= 27637_1 \\
\varphi_{9,0} &= 1365_1 & \varphi_{38,0} &= 31837_1 \\
\varphi_{16,1} &= 3639_2 & \varphi_{44,0} &= 48803_1 \\
\varphi_{20,0} &= 10283_1 & \varphi_{46,1} &= 52389_2 \\
\varphi_{32,1} &= 21321_2 & \varphi_{52,1} &= 64091_2
\end{aligned}$$

| Block 3: | $\varphi_{2,0}$ | $\varphi_{6,1}$ | $\varphi_{11,0}$ | $\varphi_{26,1}$ | $\varphi_{47,1}$ | $\varphi_{48,1}$ | $\varphi_{51,0}$ | $\varphi_{83,0}$ | $\varphi_{89,1}$ | $\varphi_{95,0}$ |
|---------------------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| $15_1 = \chi_{2,0}$ | 1 | . | . | . | . | . | . | . | . | . |
| $455_2 = \chi_{6,1}$ | . | 1 | . | . | . | . | . | . | . | . |
| $2548_1 = \chi_{11,0}$ | 1 | . | 1 | . | . | . | . | . | . | . |
| $16848_2 = \chi_{26,1}$ | . | 1 | . | 1 | . | . | . | . | . | . |
| $65520_1 = \chi_{46,0}$ | . | . | 1 | . | . | . | 1 | . | . | . |
| $71680_2 = \chi_{50,1}$ | . | . | . | 1 | 1 | . | . | . | . | . |
| $114660_2 = \chi_{63,1}$ | . | . | . | . | 1 | 1 | . | . | . | . |
| $266240_1 = \chi_{89,0}$ | . | . | . | . | . | . | 1 | 1 | . | . |
| $305760_2 = \chi_{94,1}$ | . | . | . | . | . | 1 | . | . | 1 | . |
| $515970_1 = \chi_{111,0}$ | . | . | . | . | . | . | . | 1 | . | 1 |
| $559104_1 = \chi_{113,0}$ | . | . | . | . | . | . | . | . | 1 | 1 |

$$\begin{aligned}
\varphi_{2,0} &= 15_1 & \varphi_{48,1} &= 59373_2 \\
\varphi_{6,1} &= 455_2 & \varphi_{51,0} &= 62987_1 \\
\varphi_{11,0} &= 2533_1 & \varphi_{83,0} &= 203253_1 \\
\varphi_{26,1} &= 16393_2 & \varphi_{89,1} &= 246387_2 \\
\varphi_{47,1} &= 55287_2 & \varphi_{95,0} &= 312717_1
\end{aligned}$$

| Block 4: | $\varphi_{2,1}$ | $\varphi_{6,0}$ | $\varphi_{11,1}$ | $\varphi_{26,0}$ | $\varphi_{47,0}$ | $\varphi_{48,0}$ | $\varphi_{51,1}$ | $\varphi_{83,1}$ | $\varphi_{89,0}$ | $\varphi_{95,1}$ |
|---------------------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| $15_2 = \chi_{2,1}$ | 1 | . | . | . | . | . | . | . | . | . |
| $455_1 = \chi_{6,0}$ | . | 1 | . | . | . | . | . | . | . | . |
| $2548_2 = \chi_{11,1}$ | 1 | . | 1 | . | . | . | . | . | . | . |
| $16848_1 = \chi_{26,0}$ | . | 1 | . | 1 | . | . | . | . | . | . |
| $65520_2 = \chi_{46,1}$ | . | . | 1 | . | . | . | 1 | . | . | . |
| $71680_1 = \chi_{50,0}$ | . | . | . | 1 | 1 | . | . | . | . | . |
| $114660_1 = \chi_{63,0}$ | . | . | . | . | 1 | 1 | . | . | . | . |
| $266240_2 = \chi_{89,1}$ | . | . | . | . | . | . | 1 | 1 | . | . |
| $305760_1 = \chi_{94,0}$ | . | . | . | . | . | 1 | . | . | 1 | . |
| $515970_2 = \chi_{111,1}$ | . | . | . | . | . | . | . | 1 | . | 1 |
| $559104_2 = \chi_{113,1}$ | . | . | . | . | . | . | . | . | 1 | 1 |

$$\begin{aligned}
\varphi_{2,1} &= 15_2 & \varphi_{48,0} &= 59373_1 \\
\varphi_{6,0} &= 455_1 & \varphi_{51,1} &= 62987_2 \\
\varphi_{11,1} &= 2533_2 & \varphi_{83,1} &= 203253_2 \\
\varphi_{26,0} &= 16393_1 & \varphi_{89,0} &= 246387_1 \\
\varphi_{47,0} &= 55287_1 & \varphi_{95,1} &= 312717_2
\end{aligned}$$

| Block 5: | $\varphi_{3,0}$ | $\varphi_{7,1}$ | $\varphi_{8,0}$ | $\varphi_{14,1}$ | $\varphi_{28,1}$ | $\varphi_{54,0}$ | $\varphi_{76,1}$ | $\varphi_{90,0}$ | $\varphi_{101,1}$ | $\varphi_{104,0}$ |
|---------------------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|
| $104_1 = \chi_{3,0}$ | 1 | . | . | . | . | . | . | . | . | . |
| $896_2 = \chi_{7,1}$ | . | 1 | . | . | . | . | . | . | . | . |
| $1260_1 = \chi_{8,0}$ | 1 | . | 1 | . | . | . | . | . | . | . |
| $3900_2 = \chi_{16,1}$ | . | 1 | . | 1 | . | . | . | . | . | . |
| $21840_2 = \chi_{31,1}$ | . | . | . | 1 | 1 | . | . | . | . | . |
| $69888_1 = \chi_{48,0}$ | . | . | 1 | . | . | 1 | . | . | . | . |
| $206388_2 = \chi_{83,1}$ | . | . | . | . | 1 | . | 1 | . | . | . |
| $318500_1 = \chi_{95,0}$ | . | . | . | . | . | 1 | . | 1 | . | . |
| $582400_2 = \chi_{114,1}$ | . | . | . | . | . | . | 1 | . | 1 | . |
| $673920_1 = \chi_{120,0}$ | . | . | . | . | . | . | . | 1 | . | 1 |
| $819000_1 = \chi_{122,0}$ | . | . | . | . | . | . | . | . | 1 | 1 |

$$\begin{aligned}
\varphi_{3,0} &= 104_1 & \varphi_{54,0} &= 68732_1 \\
\varphi_{7,1} &= 896_2 & \varphi_{76,1} &= 187552_2 \\
\varphi_{8,0} &= 1156_1 & \varphi_{90,0} &= 249768_1 \\
\varphi_{14,1} &= 3004_2 & \varphi_{101,1} &= 394848_2 \\
\varphi_{28,1} &= 18836_2 & \varphi_{104,0} &= 424152_1
\end{aligned}$$

| Block 6: | $\varphi_{3,1}$ | $\varphi_{7,0}$ | $\varphi_{8,1}$ | $\varphi_{14,0}$ | $\varphi_{28,0}$ | $\varphi_{54,1}$ | $\varphi_{76,0}$ | $\varphi_{90,1}$ | $\varphi_{101,0}$ | $\varphi_{104,1}$ |
|---------------------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|
| $104_2 = \chi_{3,1}$ | 1 | . | . | . | . | . | . | . | . | . |
| $896_1 = \chi_{7,0}$ | . | 1 | . | . | . | . | . | . | . | . |
| $1260_2 = \chi_{8,1}$ | 1 | . | 1 | . | . | . | . | . | . | . |
| $3900_1 = \chi_{16,0}$ | . | 1 | . | 1 | . | . | . | . | . | . |
| $21840_1 = \chi_{31,0}$ | . | . | . | 1 | 1 | . | . | . | . | . |
| $69888_2 = \chi_{48,1}$ | . | . | 1 | . | . | 1 | . | . | . | . |
| $206388_1 = \chi_{83,0}$ | . | . | . | . | 1 | . | 1 | . | . | . |
| $318500_2 = \chi_{95,1}$ | . | . | . | . | . | 1 | . | 1 | . | . |
| $582400_1 = \chi_{114,0}$ | . | . | . | . | . | . | 1 | . | 1 | . |
| $673920_2 = \chi_{120,1}$ | . | . | . | . | . | . | . | 1 | . | 1 |
| $819000_2 = \chi_{122,1}$ | . | . | . | . | . | . | . | . | 1 | 1 |

$$\begin{aligned}
\varphi_{3,1} &= 104_2 & \varphi_{54,1} &= 68732_2 \\
\varphi_{7,0} &= 896_1 & \varphi_{76,0} &= 187552_1 \\
\varphi_{8,1} &= 1156_2 & \varphi_{90,1} &= 249768_2 \\
\varphi_{14,0} &= 3004_1 & \varphi_{101,0} &= 394848_1 \\
\varphi_{28,0} &= 18836_1 & \varphi_{104,1} &= 424152_2
\end{aligned}$$

| Block 7: | $\varphi_{4,0}$ | $\varphi_{4,1}$ | $\varphi_{21,0}$ | $\varphi_{21,1}$ | $\varphi_{35,0}$ | $\varphi_{35,1}$ | $\varphi_{86,0}$ | $\varphi_{86,1}$ | $\varphi_{108,0}$ | $\varphi_{108,1}$ |
|---------------------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|
| $105_1 = \chi_{4,0}$ | 1 | . | . | . | . | . | . | . | . | . |
| $105_2 = \chi_{4,1}$ | . | 1 | . | . | . | . | . | . | . | . |
| $10752_1 = \chi_{20,0}$ | 1 | . | 1 | . | . | . | . | . | . | . |
| $10752_2 = \chi_{20,1}$ | . | 1 | . | 1 | . | . | . | . | . | . |
| $38220_1 = \chi_{39,0}$ | . | . | 1 | . | 1 | . | . | . | . | . |
| $38220_2 = \chi_{39,1}$ | . | . | . | 1 | . | 1 | . | . | . | . |
| $262080_1 = \chi_{88,0}$ | . | . | . | . | 1 | . | 1 | . | . | . |
| $262080_2 = \chi_{88,1}$ | . | . | . | . | . | 1 | . | 1 | . | . |
| $698880_1 = \chi_{121,0}$ | . | . | . | . | . | . | 1 | . | 1 | . |
| $698880_2 = \chi_{121,1}$ | . | . | . | . | . | . | . | 1 | . | 1 |
| $928746_1 = \chi_{106+}$ | . | . | . | . | . | . | . | . | 1 | 1 |

$$\begin{array}{ll}
\varphi_{4,0} & = 105_1 \\
\varphi_{4,1} & = 105_2 \\
\varphi_{21,0} & = 10647_1 \\
\varphi_{21,1} & = 10647_2 \\
\varphi_{35,0} & = 27573_1 \\
\varphi_{35,1} & = 27573_2 \\
\varphi_{86,0} & = 234507_1 \\
\varphi_{86,1} & = 234507_2 \\
\varphi_{108,0} & = 464373_1 \\
\varphi_{108,1} & = 464373_2
\end{array}$$