

$A_{15}.2 \pmod{5}$

	blocks	defect	matrix
$G :$	1	3	65×40
	2	2	20×14
	3	2	20×14
	4	1	5×4
	5	1	5×4
	6	1	5×4
	7	1	5×4
	8	1	5×4
	9	1	5×4
	10	1	5×4
	11	1	5×4
	12	1	5×4
	13	1	5×4

	blocks	defect	matrix
	14	0	$11375_1 = \chi_{27,0}, \varphi_{28,0}$
	15	0	$11375_2 = \chi_{27,1}, \varphi_{28,1}$
	16	1	5×4
	17	1	5×4
	18	0	$53625_1 = \chi_{57,0}, \varphi_{52,0}$
	19	0	$53625_2 = \chi_{57,1}, \varphi_{52,1}$
	20	0	$91000_1 = \chi_{71,0}, \varphi_{59,0}$
	21	0	$91000_2 = \chi_{71,1}, \varphi_{59,1}$
	22	0	$125125_1 = \chi_{80,0}, \varphi_{62,0}$
	23	0	$125125_2 = \chi_{80,1}, \varphi_{62,1}$
	24	0	$156000_1 = \chi_{66+}, \varphi_{55+}$
	25	0	$159250_1 = \chi_{87,0}, \varphi_{65,0}$
	26	0	$159250_2 = \chi_{87,1}, \varphi_{65,1}$

Block 1:	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{2,0}$	$\varphi_{2,1}$	$\varphi_{3,0}$	$\varphi_{3,1}$	$\varphi_{5,0}$	$\varphi_{5,1}$	$\varphi_{7,0}$	$\varphi_{7,1}$	$\varphi_{9,0}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	.	1	.	.	.	.	.	.	.	.	.
$14_1 = \chi_{2,0}$	1	.	1	.	.	.	.	.	.	.	.
$14_2 = \chi_{2,1}$	.	1	.	1	.	.	.	.	.	.	.
$91_1 = \chi_{4,0}$	.	.	1	.	1	.	.	.	.	.	.
$91_2 = \chi_{4,1}$	.	.	.	1	.	1	.	.	.	.	.
$364_1 = \chi_{6,0}$	.	.	.	.	1	.	1	.	.	.	.
$364_2 = \chi_{6,1}$	.	.	.	.	.	1	.	1	.	.	.
$1001_1 = \chi_{9,0}$	.	.	.	.	.	.	1	.	.	.	1
$1001_2 = \chi_{9,1}$	.	.	.	.	.	.	.	1	.	.	.
$1638_1 = \chi_{11,0}$	.	.	1	.	.	.	.	.	.	.	.
$1638_2 = \chi_{11,1}$	.	.	.	1	.	.	.	.	.	.	.
$2002_1 = \chi_{15,0}$	.	.	.	.	.	.	.	.	1	.	.
$2002_2 = \chi_{15,1}$	.	.	.	.	.	.	.	.	.	1	.
$2002_3 = \chi_{16,0}$	.	.	.	.	.	.	.	.	.	.	1
$2002_4 = \chi_{16,1}$	.	.	.	.	.	.	.	.	.	.	.
$3003_1 = \chi_{19,0}$	.	.	.	.	.	.	.	.	.	.	.
$3003_2 = \chi_{19,1}$	.	.	.	.	.	.	.	.	.	.	.
$3432_1 = \chi_{12+}$	.	.	.	.	.	.	.	.	.	.	.
$6006_1 = \chi_{21,0}$	.	.	.	.	1	.	.	.	.	1	.
$6006_2 = \chi_{21,1}$	.	.	.	.	.	1	.	.	1	.	.
$7007_1 = \chi_{22,0}$	1	.	1	.	1	.	.	.	.	.	.
$7007_2 = \chi_{22,1}$	.	1	.	1	.	1	.	.	.	.	.
$7722_1 = \chi_{23,0}$	.	.	.	.	.	.	1	.	.	.	1
$7722_2 = \chi_{23,1}$	.	.	.	.	.	.	.	1	.	.	.
$11088_1 = \chi_{26,0}$	.	.	.	.	1	.	1	.	.	.	.
$11088_2 = \chi_{26,1}$	.	.	.	.	.	1	.	1	.	.	.
$11583_1 = \chi_{28,0}$	.	.	.	.	.	.	.	.	1	.	.
$11583_2 = \chi_{28,1}$	.	.	.	.	.	.	.	.	.	1	.
$22113_1 = \chi_{36,0}$	1	.	1	.	.	.	.	.	1	.	.
$22113_2 = \chi_{36,1}$	.	1	.	1	.	.	.	.	.	1	.
$24024_1 = \chi_{29+}$	1	1	.	.	.	.	.	.	.	.	.
$24948_1 = \chi_{37,0}$	.	.	.	.	.	.	.	.	.	.	.
$24948_2 = \chi_{37,1}$	.	.	.	.	.	.	.	.	.	.	.
$27027_1 = \chi_{42,0}$	1	.	.	.	.	.	.	.	.	.	.
$27027_2 = \chi_{42,1}$	.	1	.	.	.	.	.	.	.	.	.
$28028_1 = \chi_{43,0}$	.	.	.	.	.	.	.	.	.	.	.
$28028_2 = \chi_{43,1}$	.	.	.	.	.	.	.	.	.	.	.
$32032_1 = \chi_{45,0}$	.	.	1	.	1	.	.	.	1	.	.
$32032_2 = \chi_{45,1}$	.	.	.	1	.	1	.	.	.	1	.

(Block 1:)	$\varphi_{9,1}$	$\varphi_{12,0}$	$\varphi_{12,1}$	$\varphi_{13,0}$	$\varphi_{13,1}$	$\varphi_{14,0}$	$\varphi_{14,1}$	$\varphi_{19,0}$	$\varphi_{19,1}$	$\varphi_{20,0}$
$1_1 = \chi_{1,0}$	.	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	.	.	.	.	.	.	.	.	.	.
$14_1 = \chi_{2,0}$	.	.	.	.	.	.	.	.	.	.
$14_2 = \chi_{2,1}$	.	.	.	.	.	.	.	.	.	.
$91_1 = \chi_{4,0}$	.	.	.	.	.	.	.	.	.	.
$91_2 = \chi_{4,1}$	.	.	.	.	.	.	.	.	.	.
$364_1 = \chi_{6,0}$	.	.	.	.	.	.	.	.	.	.
$364_2 = \chi_{6,1}$	.	.	.	.	.	.	.	.	.	.
$1001_1 = \chi_{9,0}$	.	.	.	.	.	.	.	.	.	.
$1001_2 = \chi_{9,1}$	1	.	.	.	.	.	.	.	.	.
$1638_1 = \chi_{11,0}$	.	.	.	1	.	.	.	.	.	.
$1638_2 = \chi_{11,1}$	.	.	.	.	1	.	.	.	.	.
$2002_1 = \chi_{15,0}$	.	.	.	1	.	.	.	.	.	.
$2002_2 = \chi_{15,1}$	.	.	.	.	1	.	.	.	.	.
$2002_3 = \chi_{16,0}$	.	1	.	.	.	.	.	.	.	.
$2002_4 = \chi_{16,1}$	1	.	1	.	.	.	.	.	.	.
$3003_1 = \chi_{19,0}$	.	1	.	.	.	1	.	.	.	.
$3003_2 = \chi_{19,1}$	.	.	1	.	.	.	1	.	.	.
$3432_1 = \chi_{12+}$	.	.	.	.	.	1	1	.	.	.
$6006_1 = \chi_{21,0}$	.	.	.	.	.	.	.	.	.	.
$6006_2 = \chi_{21,1}$	.	.	.	.	.	.	.	.	.	.
$7007_1 = \chi_{22,0}$	.	.	.	1	.	.	.	.	.	1
$7007_2 = \chi_{22,1}$	.	.	.	.	1	.	.	.	.	.
$7722_1 = \chi_{23,0}$	.	1	.	.	.	.	.	.	.	.
$7722_2 = \chi_{23,1}$	1	.	1	.	.	.	.	.	.	.
$11088_1 = \chi_{26,0}$	.	.	.	.	.	.	.	.	.	1
$11088_2 = \chi_{26,1}$	.	.	.	.	.	.	.	.	.	.
$11583_1 = \chi_{28,0}$	.	.	.	1	.	.	.	1	.	1
$11583_2 = \chi_{28,1}$	.	.	.	.	1	.	.	.	1	.
$22113_1 = \chi_{36,0}$	.	.	.	1	.	.	.	.	.	1
$22113_2 = \chi_{36,1}$	.	.	.	.	1	.	.	.	.	.
$24024_1 = \chi_{29+}$	.	.	.	.	.	.	.	.	.	.
$24948_1 = \chi_{37,0}$	.	1	.	.	.	1	.	.	.	.
$24948_2 = \chi_{37,1}$	.	.	1	.	.	.	1	.	.	.
$27027_1 = \chi_{42,0}$	.	.	.	.	.	.	.	1	.	1
$27027_2 = \chi_{42,1}$	.	.	.	.	.	.	.	.	1	.
$28028_1 = \chi_{43,0}$	.	1	.	.	.	.	.	.	.	.
$28028_2 = \chi_{43,1}$	.	.	1	.	.	.	.	.	.	.
$32032_1 = \chi_{45,0}$	.	.	.	1	.	.	.	1	.	1
$32032_2 = \chi_{45,1}$	.	.	.	.	1	.	.	.	1	.

(Block 1:)	$\varphi_{20,1}$	$\varphi_{21,0}$	$\varphi_{21,1}$	$\varphi_{22,0}$	$\varphi_{22,1}$	$\varphi_{24,0}$	$\varphi_{24,1}$	$\varphi_{29,0}$	$\varphi_{29,1}$	$\varphi_{32,0}$
$1_1 = \chi_{1,0}$	.	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	.	.	.	.	.	.	.	.	.	.
$14_1 = \chi_{2,0}$	.	.	.	.	.	.	.	.	.	.
$14_2 = \chi_{2,1}$	.	.	.	.	.	.	.	.	.	.
$91_1 = \chi_{4,0}$	.	.	.	.	.	.	.	.	.	.
$91_2 = \chi_{4,1}$	.	.	.	.	.	.	.	.	.	.
$364_1 = \chi_{6,0}$	.	.	.	.	.	.	.	.	.	.
$364_2 = \chi_{6,1}$	.	.	.	.	.	.	.	.	.	.
$1001_1 = \chi_{9,0}$	.	.	.	.	.	.	.	.	.	.
$1001_2 = \chi_{9,1}$	.	.	.	.	.	.	.	.	.	.
$1638_1 = \chi_{11,0}$	.	.	.	.	.	.	.	.	.	.
$1638_2 = \chi_{11,1}$	.	.	.	.	.	.	.	.	.	.
$2002_1 = \chi_{15,0}$	.	.	.	.	.	.	.	.	.	.
$2002_2 = \chi_{15,1}$	.	.	.	.	.	.	.	.	.	.
$2002_3 = \chi_{16,0}$	.	.	.	.	.	.	.	.	.	.
$2002_4 = \chi_{16,1}$	.	.	.	.	.	.	.	.	.	.
$3003_1 = \chi_{19,0}$	.	.	.	.	.	.	.	.	.	.
$3003_2 = \chi_{19,1}$	.	.	.	.	.	.	.	.	.	.
$3432_1 = \chi_{12+}$	.	.	.	.	.	.	.	.	.	.
$6006_1 = \chi_{21,0}$	.	.	.	1	.	.	.	.	.	.
$6006_2 = \chi_{21,1}$	.	.	.	.	1	.	.	.	.	.
$7007_1 = \chi_{22,0}$	.	.	.	.	.	.	.	.	.	.
$7007_2 = \chi_{22,1}$	1	.	.	.	.	.	.	.	.	.
$7722_1 = \chi_{23,0}$	.	1	.	.	.	.	.	.	.	.
$7722_2 = \chi_{23,1}$	.	.	1	.	.	.	.	.	.	.
$11088_1 = \chi_{26,0}$	.	1	.	.	.	.	.	.	.	.
$11088_2 = \chi_{26,1}$	1	.	1	.	.	.	.	.	.	.
$11583_1 = \chi_{28,0}$	.	.	.	.	.	.	.	.	.	.
$11583_2 = \chi_{28,1}$	1	.	.	.	.	.	.	.	.	.
$22113_1 = \chi_{36,0}$	.	.	.	.	.	.	.	.	.	1
$22113_2 = \chi_{36,1}$	1	.	.	.	.	.	.	.	.	.
$24024_1 = \chi_{29+}$	.	.	.	.	.	.	.	1	1	.
$24948_1 = \chi_{37,0}$	.	1	.	.	.	.	.	.	.	.
$24948_2 = \chi_{37,1}$	.	.	1	.	.	.	.	.	.	.
$27027_1 = \chi_{42,0}$	.	1	.	.	.	.	.	1	.	.
$27027_2 = \chi_{42,1}$	1	.	1	.	.	.	.	.	1	.
$28028_1 = \chi_{43,0}$	.	1	.	.	.	1	.	1	.	.
$28028_2 = \chi_{43,1}$	.	.	1	.	.	.	1	.	1	.
$32032_1 = \chi_{45,0}$	.	.	.	1	.	.	.	.	.	1
$32032_2 = \chi_{45,1}$	1	.	.	.	1	.	.	.	.	.

(Block 1:)	$\varphi_{32,1}$	$\varphi_{34,0}$	$\varphi_{34,1}$	$\varphi_{37,0}$	$\varphi_{37,1}$	$\varphi_{47,0}$	$\varphi_{47,1}$	$\varphi_{53,0}$	$\varphi_{53,1}$
$1_1 = \chi_{1,0}$	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	.	.	.	.	.	.	.	.	.
$14_1 = \chi_{2,0}$	.	.	.	.	.	.	.	.	.
$14_2 = \chi_{2,1}$	.	.	.	.	.	.	.	.	.
$91_1 = \chi_{4,0}$	.	.	.	.	.	.	.	.	.
$91_2 = \chi_{4,1}$	.	.	.	.	.	.	.	.	.
$364_1 = \chi_{6,0}$	.	.	.	.	.	.	.	.	.
$364_2 = \chi_{6,1}$	.	.	.	.	.	.	.	.	.
$1001_1 = \chi_{9,0}$	.	.	.	.	.	.	.	.	.
$1001_2 = \chi_{9,1}$	.	.	.	.	.	.	.	.	.
$1638_1 = \chi_{11,0}$	.	.	.	.	.	.	.	.	.
$1638_2 = \chi_{11,1}$	.	.	.	.	.	.	.	.	.
$2002_1 = \chi_{15,0}$	.	.	.	.	.	.	.	.	.
$2002_2 = \chi_{15,1}$	.	.	.	.	.	.	.	.	.
$2002_3 = \chi_{16,0}$	.	.	.	.	.	.	.	.	.
$2002_4 = \chi_{16,1}$	.	.	.	.	.	.	.	.	.
$3003_1 = \chi_{19,0}$	.	.	.	.	.	.	.	.	.
$3003_2 = \chi_{19,1}$	.	.	.	.	.	.	.	.	.
$3432_1 = \chi_{12,+}$	.	.	.	.	.	.	.	.	.
$6006_1 = \chi_{21,0}$	.	.	.	.	.	.	.	.	.
$6006_2 = \chi_{21,1}$	.	.	.	.	.	.	.	.	.
$7007_1 = \chi_{22,0}$	.	.	.	.	.	.	.	.	.
$7007_2 = \chi_{22,1}$	.	.	.	.	.	.	.	.	.
$7722_1 = \chi_{23,0}$	.	.	.	.	.	.	.	.	.
$7722_2 = \chi_{23,1}$	.	.	.	.	.	.	.	.	.
$11088_1 = \chi_{26,0}$	.	.	.	.	.	.	.	.	.
$11088_2 = \chi_{26,1}$	.	.	.	.	.	.	.	.	.
$11583_1 = \chi_{28,0}$	.	.	.	.	.	.	.	.	.
$11583_2 = \chi_{28,1}$	.	.	.	.	.	.	.	.	.
$22113_1 = \chi_{36,0}$	.	.	.	.	.	.	.	.	.
$22113_2 = \chi_{36,1}$	1	.	.	.	.	.	.	.	.
$24024_1 = \chi_{29,+}$	.	.	.	.	.	.	.	.	.
$24948_1 = \chi_{37,0}$	.	1	.	.	.	.	.	.	.
$24948_2 = \chi_{37,1}$	.	.	1	.	.	.	.	.	.
$27027_1 = \chi_{42,0}$	.	.	.	.	.	.	.	.	.
$27027_2 = \chi_{42,1}$	.	.	.	.	.	.	.	.	.
$28028_1 = \chi_{43,0}$	.	.	.	.	.	.	.	.	.
$28028_2 = \chi_{43,1}$	.	.	.	.	.	.	.	.	.
$32032_1 = \chi_{45,0}$	.	.	.	.	.	.	.	.	.
$32032_2 = \chi_{45,1}$	1	.	.	.	.	.	.	.	.

[illegible]

[illegible]

(Block 1:)	$\varphi_{20,1}$	$\varphi_{21,0}$	$\varphi_{21,1}$	$\varphi_{22,0}$	$\varphi_{22,1}$	$\varphi_{24,0}$	$\varphi_{24,1}$	$\varphi_{29,0}$	$\varphi_{29,1}$	$\varphi_{32,0}$
$34398_1 = \chi_{46,0}$	.	.	.	.	.	.	1	.	.	.
$34398_2 = \chi_{46,1}$	.	.	.	.	.	1	.	.	.	.
$42042_1 = \chi_{49,0}$	.	1	.	.	.	.	.	.	.	1
$42042_2 = \chi_{49,1}$	1	.	1	.	.	.	.	.	.	.
$42042_3 = \chi_{50,0}$	.	.	.	.	.	.	.	.	.	.
$42042_4 = \chi_{50,1}$	.	.	.	.	.	.	.	.	.	.
$54054_1 = \chi_{58,0}$	.	.	.	1	.	.	.	.	.	.
$54054_2 = \chi_{58,1}$	.	.	.	.	1	.	.	.	.	.
$58968_1 = \chi_{60,0}$	.	.	.	1	.	.	.	.	.	1
$58968_2 = \chi_{60,1}$	.	.	.	.	1	.	.	.	.	.
$81081_1 = \chi_{69,0}$	.	.	.	.	.	.	1	1	1	.
$81081_2 = \chi_{69,1}$	.	.	.	.	.	1	.	1	1	.
$108108_1 = \chi_{76,0}$	.	1	.	1	.	.	.	1	.	1
$108108_2 = \chi_{76,1}$	1	.	1	.	1	.	.	.	1	.
$112112_1 = \chi_{77,0}$	.	.	.	1	.	.	1	.	.	1
$112112_2 = \chi_{77,1}$	.	.	.	.	1	1	.	.	.	.
$112112_3 = \chi_{78,0}$	.	.	.	1	.	.	1	.	.	.
$112112_4 = \chi_{78,1}$	.	.	.	.	1	1	.	.	.	.
$126126_1 = \chi_{81,0}$	.	.	.	.	1	.	.	.	.	.
$126126_2 = \chi_{81,1}$	.	.	.	1	.	.	.	.	.	.
$162162_1 = \chi_{88,0}$	.	1	.	.	.	1	.	1	.	.
$162162_2 = \chi_{88,1}$	.	.	1	.	.	.	1	.	1	.
$243243_1 = \chi_{94,0}$	.	.	.	1	.	.	1	.	.	.
$243243_2 = \chi_{94,1}$	.	.	.	.	1	1	.	.	.	.
$292864_1 = \chi_{84+}$	.	.	.	1	1	1	1	1	1	.

(Block 1:)	$\varphi_{32,1}$	$\varphi_{34,0}$	$\varphi_{34,1}$	$\varphi_{37,0}$	$\varphi_{37,1}$	$\varphi_{47,0}$	$\varphi_{47,1}$	$\varphi_{53,0}$	$\varphi_{53,1}$
$34398_1 = \chi_{46,0}$	.	.	.	1	.	.	.	.	.
$34398_2 = \chi_{46,1}$	.	.	.	.	1	.	.	.	.
$42042_1 = \chi_{49,0}$	.	1	.	.	.	.	.	.	.
$42042_2 = \chi_{49,1}$	1	.	1	.	.	.	.	.	.
$42042_3 = \chi_{50,0}$	.	1	.	1	.	.	.	.	.
$42042_4 = \chi_{50,1}$	.	.	1	.	1	.	.	.	.
$54054_1 = \chi_{58,0}$	.	.	.	.	.	1	.	.	.
$54054_2 = \chi_{58,1}$	.	.	.	.	.	.	1	.	.
$58968_1 = \chi_{60,0}$	.	1	.	1	.	.	.	.	.
$58968_2 = \chi_{60,1}$	1	.	1	.	1	.	.	.	.
$81081_1 = \chi_{69,0}$	.	.	.	.	.	1	.	.	.
$81081_2 = \chi_{69,1}$	.	.	.	.	.	.	1	.	.
$108108_1 = \chi_{76,0}$	.	1	.	.	.	1	.	.	.
$108108_2 = \chi_{76,1}$	1	.	1	.	.	.	1	.	.
$112112_1 = \chi_{77,0}$	.	1	.	1	.	1	.	.	.
$112112_2 = \chi_{77,1}$	1	.	1	.	1	.	1	.	.
$112112_3 = \chi_{78,0}$	.	.	.	1	.	.	.	.	1
$112112_4 = \chi_{78,1}$	.	.	.	.	1	.	.	1	.
$126126_1 = \chi_{81,0}$	.	.	.	.	.	1	.	1	.
$126126_2 = \chi_{81,1}$	.	.	.	.	.	.	1	.	1
$162162_1 = \chi_{88,0}$	.	1	.	.	.	1	.	1	.
$162162_2 = \chi_{88,1}$	.	.	1	.	.	.	1	.	1
$243243_1 = \chi_{94,0}$	.	1	.	1	.	1	.	1	1
$243243_2 = \chi_{94,1}$	.	.	1	.	1	.	1	1	1
$292864_1 = \chi_{84+}$	.	.	.	.	.	1	1	1	1

$\varphi_{1,0} = 1_1$	$\varphi_{20,0} = 5290_1$
$\varphi_{1,1} = 1_2$	$\varphi_{20,1} = 5290_2$
$\varphi_{2,0} = 13_1$	$\varphi_{21,0} = 5434_1$
$\varphi_{2,1} = 13_2$	$\varphi_{21,1} = 5434_2$
$\varphi_{3,0} = 78_1$	$\varphi_{22,0} = 5551_1$
$\varphi_{3,1} = 78_2$	$\varphi_{22,1} = 5551_2$
$\varphi_{5,0} = 286_1$	$\varphi_{24,0} = 9296_1$
$\varphi_{5,1} = 286_2$	$\varphi_{24,1} = 9296_2$
$\varphi_{7,0} = 377_1$	$\varphi_{29,0} = 12011_1$
$\varphi_{7,1} = 377_2$	$\varphi_{29,1} = 12011_2$
$\varphi_{9,0} = 715_2$	$\varphi_{32,0} = 14807_1$
$\varphi_{9,1} = 715_3$	$\varphi_{32,1} = 14807_2$
$\varphi_{12,0} = 1287_1$	$\varphi_{34,0} = 16511_1$
$\varphi_{12,1} = 1287_2$	$\varphi_{34,1} = 16511_2$
$\varphi_{13,0} = 1625_1$	$\varphi_{37,0} = 22099_1$
$\varphi_{13,1} = 1625_2$	$\varphi_{37,1} = 22099_2$
$\varphi_{14,0} = 1716_1$	$\varphi_{47,0} = 43458_1$
$\varphi_{14,1} = 1716_2$	$\varphi_{47,1} = 43458_2$
$\varphi_{19,0} = 4291_1$	$\varphi_{53,0} = 71448_1$
$\varphi_{19,1} = 4291_2$	$\varphi_{53,1} = 71448_2$

Block 2:	$\varphi_{4,0}$	$\varphi_{8,0}$	$\varphi_{10,1}$	$\varphi_{11,0}$	$\varphi_{16,1}$	$\varphi_{17,1}$	$\varphi_{27,1}$	$\varphi_{35,0}$	$\varphi_{38,0}$	$\varphi_{42,1}$
$90_1 = \chi_{3,0}$	1	.	.	.	.	.	.	.	.	.
$715_2 = \chi_{7,1}$	.	.	1	.	.	.	.	.	.	.
$910_1 = \chi_{8,0}$	1	.	.	1	.	.	.	.	.	.
$1430_1 = \chi_{10,0}$	.	1	.	1	.	.	.	.	.	.
$2835_2 = \chi_{17,1}$	.	.	1	.	1	.	.	.	.	.
$5005_2 = \chi_{20,1}$	.	.	.	.	1	1	.	.	.	.
$12740_2 = \chi_{31,1}$	.	.	.	.	1	.	1	.	.	.
$19305_1 = \chi_{34,0}$	.	.	.	.	.	.	.	1	.	.
$30030_2 = \chi_{44,1}$	.	1	1	.	.	.	.	.	.	1
$35035_1 = \chi_{47,0}$	1	1	.	1	.	.	.	.	.	.
$43120_1 = \chi_{51,0}$	.	.	.	.	.	.	.	1	1	.
$45045_2 = \chi_{53,1}$	.	.	1	.	1	1	1	.	.	1
$57330_1 = \chi_{59,0}$	.	.	.	.	.	.	.	.	1	.
$70070_2 = \chi_{63,1}$	.	.	.	.	.	.	.	1	.	.
$80080_1 = \chi_{68,0}$	1	.	.	.	.	1	.	.	.	.
$90090_2 = \chi_{70,1}$	.	.	.	.	.	.	1	.	.	1
$135135_1 = \chi_{83,0}$	1	1	.	.	.	.	.	.	1	.
$210210_2 = \chi_{91,1}$	.	1	.	.	.	1	.	.	.	1
$221130_1 = \chi_{92,0}$	.	.	.	.	.	.	.	1	1	.
$231660_1 = \chi_{93,0}$	.	1	.	.	.	1	.	.	1	.

(Block 2:)	$\varphi_{44,0}$	$\varphi_{50,1}$	$\varphi_{54,0}$	$\varphi_{64,0}$	
$90_1 = \chi_{3,0}$	.	.	.	.	$\varphi_{4,0} = 90_1$
$715_2 = \chi_{7,1}$	.	.	.	.	$\varphi_{8,0} = 610_1$
$910_1 = \chi_{8,0}$	.	.	.	.	$\varphi_{10,1} = 715_4$
$1430_1 = \chi_{10,0}$	.	.	.	.	$\varphi_{11,0} = 820_1$
$2835_2 = \chi_{17,1}$	.	.	.	.	$\varphi_{16,1} = 2120_2$
$5005_2 = \chi_{20,1}$	.	.	.	.	$\varphi_{17,1} = 2885_2$
$12740_2 = \chi_{31,1}$	.	.	.	.	$\varphi_{27,1} = 10620_2$
$19305_1 = \chi_{34,0}$	.	.	.	.	$\varphi_{35,0} = 19305_1$
$30030_2 = \chi_{44,1}$	.	.	.	.	$\varphi_{38,0} = 23815_1$
$35035_1 = \chi_{47,0}$	1	.	.	.	$\varphi_{42,1} = 28705_2$
$43120_1 = \chi_{51,0}$	.	.	.	.	$\varphi_{44,0} = 33515_1$
$45045_2 = \chi_{53,1}$	.	.	.	.	$\varphi_{50,1} = 50765_2$
$57330_1 = \chi_{59,0}$	1	.	.	.	$\varphi_{54,0} = 77105_1$
$70070_2 = \chi_{63,1}$	.	1	.	.	$\varphi_{64,0} = 127245_1$
$80080_1 = \chi_{68,0}$	.	.	1	.	
$90090_2 = \chi_{70,1}$	.	1	.	.	
$135135_1 = \chi_{83,0}$	1	.	1	.	
$210210_2 = \chi_{91,1}$	.	1	.	1	
$221130_1 = \chi_{92,0}$	.	1	.	1	
$231660_1 = \chi_{93,0}$	.	.	1	1	

Block 3:	$\varphi_{4,1}$	$\varphi_{8,1}$	$\varphi_{10,0}$	$\varphi_{11,1}$	$\varphi_{16,0}$	$\varphi_{17,0}$	$\varphi_{27,0}$	$\varphi_{35,1}$	$\varphi_{38,1}$	$\varphi_{42,0}$
$90_2 = \chi_{3,1}$	1	.	.	.	.	.	.	.	.	.
$715_1 = \chi_{7,0}$	.	.	1	.	.	.	.	.	.	.
$910_2 = \chi_{8,1}$	1	.	.	1	.	.	.	.	.	.
$1430_2 = \chi_{10,1}$	.	1	.	1	.	.	.	.	.	.
$2835_1 = \chi_{17,0}$	.	.	1	.	1	.	.	.	.	.
$5005_1 = \chi_{20,0}$	.	.	.	.	1	1	.	.	.	.
$12740_1 = \chi_{31,0}$	.	.	.	.	1	.	1	.	.	.
$19305_2 = \chi_{34,1}$	.	.	.	.	.	.	.	1	.	.
$30030_1 = \chi_{44,0}$	.	1	1	.	.	.	.	.	.	1
$35035_2 = \chi_{47,1}$	1	1	.	1	.	.	.	.	.	.
$43120_2 = \chi_{51,1}$	.	.	.	.	.	.	.	1	1	.
$45045_1 = \chi_{53,0}$	.	.	1	.	1	1	1	.	.	1
$57330_2 = \chi_{59,1}$	.	.	.	.	.	.	.	.	1	.
$70070_1 = \chi_{63,0}$	.	.	.	.	.	.	.	1	.	.
$80080_2 = \chi_{68,1}$	1	.	.	.	.	1	.	.	.	.
$90090_1 = \chi_{70,0}$	.	.	.	.	.	.	1	.	.	1
$135135_2 = \chi_{83,1}$	1	1	.	.	.	.	.	.	1	.
$210210_1 = \chi_{91,0}$	.	1	.	.	.	1	.	.	.	1
$221130_2 = \chi_{92,1}$	.	.	.	.	.	.	.	1	1	.
$231660_2 = \chi_{93,1}$	.	1	.	.	.	1	.	.	1	.

(Block 3:)	$\varphi_{44,1}$	$\varphi_{50,0}$	$\varphi_{54,1}$	$\varphi_{64,1}$	
$90_2 = \chi_{3,1}$	.	.	.	.	$\varphi_{4,1} = 90_2$
$715_1 = \chi_{7,0}$	.	.	.	.	$\varphi_{8,1} = 610_2$
$910_2 = \chi_{8,1}$	.	.	.	.	$\varphi_{10,0} = 715_1$
$1430_2 = \chi_{10,1}$	.	.	.	.	$\varphi_{11,1} = 820_2$
$2835_1 = \chi_{17,0}$	.	.	.	.	$\varphi_{16,0} = 2120_1$
$5005_1 = \chi_{20,0}$	.	.	.	.	$\varphi_{17,0} = 2885_1$
$12740_1 = \chi_{31,0}$	.	.	.	.	$\varphi_{27,0} = 10620_1$
$19305_2 = \chi_{34,1}$	.	.	.	.	$\varphi_{35,1} = 19305_2$
$30030_1 = \chi_{44,0}$	.	.	.	.	$\varphi_{38,1} = 23815_2$
$35035_2 = \chi_{47,1}$	1	.	.	.	$\varphi_{42,0} = 28705_1$
$43120_2 = \chi_{51,1}$	.	.	.	.	$\varphi_{44,1} = 33515_2$
$45045_1 = \chi_{53,0}$	.	.	.	.	$\varphi_{50,0} = 50765_1$
$57330_2 = \chi_{59,1}$	1	.	.	.	$\varphi_{54,1} = 77105_2$
$70070_1 = \chi_{63,0}$	.	1	.	.	$\varphi_{64,1} = 127245_2$
$80080_2 = \chi_{68,1}$	.	.	1	.	
$90090_1 = \chi_{70,0}$	.	1	.	.	
$135135_2 = \chi_{83,1}$	1	.	1	.	
$210210_1 = \chi_{91,0}$	.	1	.	1	
$221130_2 = \chi_{92,1}$	.	1	.	1	
$231660_2 = \chi_{93,1}$	.	.	1	1	

Block 4:	$\varphi_{6,0}$	$\varphi_{39,0}$	$\varphi_{51,0}$	$\varphi_{60,0}$	
$350_1 = \chi_{5,0}$	1	.	.	.	$\varphi_{6,0} = 350_1$
$25025_5 = \chi_{40,0}$	1	1	.	.	$\varphi_{39,0} = 24675_1$
$51975_1 = \chi_{56,0}$	.	.	1	.	$\varphi_{51,0} = 51975_1$
$122850_1 = \chi_{79,0}$	.	1	.	1	$\varphi_{60,0} = 98175_1$
$150150_1 = \chi_{86,0}$	.	.	1	1	

Block 5:	$\varphi_{6,1}$	$\varphi_{39,1}$	$\varphi_{51,1}$	$\varphi_{60,1}$	
$350_2 = \chi_{5,1}$	1	.	.	.	$\varphi_{6,1} = 350_2$
$25025_6 = \chi_{40,1}$	1	1	.	.	$\varphi_{39,1} = 24675_2$
$51975_2 = \chi_{56,1}$	.	.	1	.	$\varphi_{51,1} = 51975_2$
$122850_2 = \chi_{79,1}$	.	1	.	1	$\varphi_{60,1} = 98175_2$
$150150_2 = \chi_{86,1}$	.	.	1	1	

Block 6:	$\varphi_{15,0}$	$\varphi_{36,0}$	$\varphi_{43,1}$	$\varphi_{48,1}$
$1925_1 = \chi_{14,0}$	1	.	.	.
$21450_1 = \chi_{35,0}$	1	1	.	.
$44550_2 = \chi_{52,1}$	.	.	.	1
$50050_3 = \chi_{55,0}$	.	1	1	.
$75075_4 = \chi_{65,1}$	.	.	1	1

$$\begin{aligned}
\varphi_{15,0} &= 1925_1 \\
\varphi_{36,0} &= 19525_1 \\
\varphi_{43,1} &= 30525_2 \\
\varphi_{48,1} &= 44550_2
\end{aligned}$$

Block 7:	$\varphi_{15,1}$	$\varphi_{36,1}$	$\varphi_{43,0}$	$\varphi_{48,0}$
$1925_2 = \chi_{14,1}$	1	.	.	.
$21450_2 = \chi_{35,1}$	1	1	.	.
$44550_1 = \chi_{52,0}$	.	.	.	1
$50050_4 = \chi_{55,1}$	.	1	1	.
$75075_3 = \chi_{65,0}$	.	.	1	1

$$\begin{aligned}
\varphi_{15,1} &= 1925_2 \\
\varphi_{36,1} &= 19525_2 \\
\varphi_{43,0} &= 30525_1 \\
\varphi_{48,0} &= 44550_1
\end{aligned}$$

Block 8:	$\varphi_{18,0}$	$\varphi_{31,1}$	$\varphi_{49,1}$	$\varphi_{63,0}$
$2925_1 = \chi_{18,0}$	1	.	.	.
$14300_2 = \chi_{33,1}$	.	1	.	.
$63700_2 = \chi_{62,1}$	.	1	1	.
$128700_1 = \chi_{82,0}$	1	.	.	1
$175175_1 = \chi_{89,0}$	.	.	1	1

$$\begin{aligned}
\varphi_{18,0} &= 2925_1 \\
\varphi_{31,1} &= 14300_2 \\
\varphi_{49,1} &= 49400_2 \\
\varphi_{63,0} &= 125775_1
\end{aligned}$$

Block 9:	$\varphi_{18,1}$	$\varphi_{31,0}$	$\varphi_{49,0}$	$\varphi_{63,1}$
$2925_2 = \chi_{18,1}$	1	.	.	.
$14300_1 = \chi_{33,0}$	.	1	.	.
$63700_1 = \chi_{62,0}$	.	1	1	.
$128700_2 = \chi_{82,1}$	1	.	.	1
$175175_2 = \chi_{89,1}$	.	.	1	1

$$\begin{aligned}
\varphi_{18,1} &= 2925_2 \\
\varphi_{31,0} &= 14300_1 \\
\varphi_{49,0} &= 49400_1 \\
\varphi_{63,1} &= 125775_2
\end{aligned}$$

Block 10:	$\varphi_{23,0}$	$\varphi_{33,0}$	$\varphi_{57,1}$	$\varphi_{61,1}$
$9100_1 = \chi_{24,0}$	1	.	.	.
$25025_3 = \chi_{39,0}$	1	1	.	.
$100100_4 = \chi_{74,1}$	.	.	.	1
$100100_6 = \chi_{75,1}$	.	1	1	.
$184275_2 = \chi_{90,1}$	.	.	1	1

$$\begin{aligned}
\varphi_{23,0} &= 9100_1 \\
\varphi_{33,0} &= 15925_1 \\
\varphi_{57,1} &= 84175_2 \\
\varphi_{61,1} &= 100100_2
\end{aligned}$$

Block 11:	$\varphi_{23,1}$	$\varphi_{33,1}$	$\varphi_{57,0}$	$\varphi_{61,0}$	
$9100_2 = \chi_{24,1}$	1	.	.	.	$\varphi_{23,1} = 9100_2$
$25025_4 = \chi_{39,1}$	1	1	.	.	$\varphi_{33,1} = 15925_2$
$100100_3 = \chi_{74,0}$	.	.	.	1	$\varphi_{57,0} = 84175_1$
$100100_5 = \chi_{75,0}$	.	1	1	.	$\varphi_{61,0} = 100100_1$
$184275_1 = \chi_{90,0}$	.	.	1	1	

Block 12:	$\varphi_{25,0}$	$\varphi_{41,1}$	$\varphi_{45,1}$	$\varphi_{46,0}$	
$9450_1 = \chi_{25,0}$	1	.	.	.	$\varphi_{25,0} = 9450_1$
$26950_2 = \chi_{41,1}$	.	1	.	.	$\varphi_{41,1} = 26950_2$
$50050_1 = \chi_{54,0}$	1	.	.	1	$\varphi_{45,1} = 34475_2$
$61425_2 = \chi_{61,1}$	.	1	1	.	$\varphi_{46,0} = 40600_1$
$75075_1 = \chi_{64,0}$	.	.	1	1	

Block 13:	$\varphi_{25,1}$	$\varphi_{41,0}$	$\varphi_{45,0}$	$\varphi_{46,1}$	
$9450_2 = \chi_{25,1}$	1	.	.	.	$\varphi_{25,1} = 9450_2$
$26950_1 = \chi_{41,0}$	.	1	.	.	$\varphi_{41,0} = 26950_1$
$50050_2 = \chi_{54,1}$	1	.	.	1	$\varphi_{45,0} = 34475_1$
$61425_1 = \chi_{61,0}$	.	1	1	.	$\varphi_{46,1} = 40600_2$
$75075_2 = \chi_{64,1}$	.	.	1	1	

Block 16:	$\varphi_{26,1}$	$\varphi_{30,0}$	$\varphi_{40,1}$	$\varphi_{58,0}$	
$13650_1 = \chi_{32,0}$	.	1	.	.	$\varphi_{26,1} = 10075_2$
$25025_2 = \chi_{38,1}$	.	.	1	.	$\varphi_{30,0} = 13650_1$
$35100_2 = \chi_{48,1}$	1	.	1	.	$\varphi_{40,1} = 25025_2$
$96525_1 = \chi_{72,0}$	1	.	.	1	$\varphi_{58,0} = 86450_1$
$100100_1 = \chi_{73,0}$	.	1	.	1	

Block 17:	$\varphi_{26,0}$	$\varphi_{30,1}$	$\varphi_{40,0}$	$\varphi_{58,1}$	
$13650_2 = \chi_{32,1}$	.	1	.	.	$\varphi_{26,0} = 10075_1$
$25025_1 = \chi_{38,0}$	.	.	1	.	$\varphi_{30,1} = 13650_2$
$35100_1 = \chi_{48,0}$	1	.	1	.	$\varphi_{40,0} = 25025_1$
$96525_2 = \chi_{72,1}$	1	.	.	1	$\varphi_{58,1} = 86450_2$
$100100_2 = \chi_{73,1}$	.	1	.	1	