

$A_{17.2} \pmod{7}$

	blocks	defect	matrix
$G :$	1	2	35×27
	2	2	35×27
	3	2	35×27
	4	1	7×6
	5	1	7×6
	6	1	7×6
	7	1	7×6
	8	1	7×6
	9	1	7×6
	10	1	7×6
	11	1	7×6
	12	1	7×6
	13	1	7×6
	14	1	7×6
	15	1	7×6
	16	1	7×6
	17	1	7×6
	18	1	7×6
	19	1	7×6
	20	1	7×6
	21	0	$33320_1 = \chi_{28,0}, \varphi_{30,0}$
	22	0	$33320_2 = \chi_{28,1}, \varphi_{30,1}$
	23	1	7×6
	24	1	7×6
	25	1	7×6
	26	1	7×6
	27	0	$129948_1 = \chi_{46,0}, \varphi_{52,0}$
	28	0	$129948_2 = \chi_{46,1}, \varphi_{52,1}$
	29	0	$129948_3 = \chi_{47,0}, \varphi_{53,0}$
	30	0	$129948_4 = \chi_{47,1}, \varphi_{53,1}$
	31	0	$238238_1 = \chi_{62,0}, \varphi_{70,0}$
	32	0	$238238_2 = \chi_{62,1}, \varphi_{70,1}$
	33	0	$259896_1 = \chi_{65,0}, \varphi_{77,0}$
	34	0	$259896_2 = \chi_{65,1}, \varphi_{77,1}$
	35	0	$333200_1 = \chi_{73,0}, \varphi_{83,0}$
	36	0	$333200_2 = \chi_{73,1}, \varphi_{83,1}$
	37	0	$346528_1 = \chi_{76,0}, \varphi_{85,0}$
	38	0	$346528_2 = \chi_{76,1}, \varphi_{85,1}$
	39	0	$399840_1 = \chi_{80,0}, \varphi_{88,0}$
	40	0	$399840_2 = \chi_{80,1}, \varphi_{88,1}$

	blocks	defect	matrix
	41	0	$433160_1 = \chi_{82,0}, \varphi_{91,0}$
	42	0	$433160_2 = \chi_{82,1}, \varphi_{91,1}$
	43	0	$586432_1 = \chi_{91,0}, \varphi_{98,0}$
	44	0	$586432_2 = \chi_{91,1}, \varphi_{98,1}$
	45	0	$749700_1 = \chi_{102,0}, \varphi_{103,0}$
	46	0	$749700_2 = \chi_{102,1}, \varphi_{103,1}$
	47	0	$952952_1 = \chi_{111,0}, \varphi_{111,0}$
	48	0	$952952_2 = \chi_{111,1}, \varphi_{111,1}$
	49	0	$1082900_1 = \chi_{117,0}, \varphi_{114,0}$
	50	0	$1082900_2 = \chi_{117,1}, \varphi_{114,1}$
	51	0	$1082900_3 = \chi_{118,0}, \varphi_{115,0}$
	52	0	$1082900_4 = \chi_{118,1}, \varphi_{115,1}$
	53	0	$1299480_1 = \chi_{123,0}, \varphi_{119,0}$
	54	0	$1299480_2 = \chi_{123,1}, \varphi_{119,1}$
	55	0	$1429428_1 = \chi_{130,0}, \varphi_{123,0}$
	56	0	$1429428_2 = \chi_{130,1}, \varphi_{123,1}$
	57	0	$1832600_1 = \chi_{141,0}, \varphi_{124,0}$
	58	0	$1832600_2 = \chi_{141,1}, \varphi_{124,1}$
	59	0	$1905904_1 = \chi_{142,0}, \varphi_{125,0}$
	60	0	$1905904_2 = \chi_{142,1}, \varphi_{125,1}$
	61	0	$2165800_1 = \chi_{143,0}, \varphi_{127,0}$
	62	0	$2165800_2 = \chi_{143,1}, \varphi_{127,1}$
	63	0	$2598960_1 = \chi_{152,0}, \varphi_{130,0}$
	64	0	$2598960_2 = \chi_{152,1}, \varphi_{130,1}$
	65	0	$2858856_1 = \chi_{154,0}, \varphi_{131,0}$
	66	0	$2858856_2 = \chi_{154,1}, \varphi_{131,1}$
	67	0	$3573570_1 = \chi_{155,0}, \varphi_{132,0}$
	68	0	$3573570_2 = \chi_{155,1}, \varphi_{132,1}$
	69	0	$4873050_1 = \chi_{147+}, \varphi_{128+}$

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(Block 1:)	$\varphi_{65,1}$	$\varphi_{71,0}$	$\varphi_{76,0}$	$\varphi_{100,1}$	$\varphi_{109,1}$	$\varphi_{110,1}$	$\varphi_{116,1}$
$1_1 = \chi_{1,0}$	.	.	.	.	.	.	.
$120_2 = \chi_{4,1}$	.	.	.	.	.	.	.
$1105_2 = \chi_{7,1}$	.	.	.	.	.	.	.
$1700_1 = \chi_{8,0}$	.	.	.	.	.	.	.
$3536_2 = \chi_{10,1}$	.	.	.	.	.	.	.
$7072_1 = \chi_{19,0}$	.	.	.	.	.	.	.
$11440_1 = \chi_{21,0}$	.	.	.	.	.	.	.
$15912_1 = \chi_{22,0}$	.	.	.	.	.	.	.
$19448_2 = \chi_{24,1}$	.	.	.	.	.	.	.
$37400_2 = \chi_{30,1}$	.	.	.	.	.	.	.
$48620_1 = \chi_{33,0}$	.	.	.	.	.	.	.
$65637_1 = \chi_{35,0}$	.	.	.	.	.	.	.
$70720_1 = \chi_{37,0}$	.	.	.	.	.	.	.
$87516_1 = \chi_{40,0}$	.	.	.	.	.	.	.
$116688_2 = \chi_{41,1}$	.	.	.	.	.	.	.
$121550_2 = \chi_{43,1}$	.	.	.	.	.	.	.
$134640_1 = \chi_{48,0}$	.	.	.	.	.	.	.
$145860_2 = \chi_{50,1}$	.	.	.	.	.	.	.
$155584_1 = \chi_{53,0}$	.	.	.	.	.	.	.
$194480_1 = \chi_{57,0}$	.	.	.	.	.	.	.
$291720_1 = \chi_{70,0}$	.	.	1	.	.	.	.
$318240_2 = \chi_{71,1}$	1	.	.	.	.	.	.
$364650_1 = \chi_{78,0}$	.	.	.	.	.	.	.
$388960_1 = \chi_{79,0}$	.	.	1	.	.	.	.
$466752_2 = \chi_{83,1}$	1	1	.	.	.	.	.
$486200_1 = \chi_{84,0}$	.	1	.	.	.	.	.
$848640_2 = \chi_{106,1}$	.	.	.	1	.	.	.
$972400_2 = \chi_{112,1}$	.	.	.	.	.	1	.
$1454112_2 = \chi_{131,1}$	1	1	.	.	1	.	.
$1591200_1 = \chi_{134,0}$	.	.	1	.	.	.	1
$1750320_2 = \chi_{139,1}$	.	.	.	1	.	1	.
$1750320_4 = \chi_{140,1}$	.	.	.	1	1	.	.
$2362932_2 = \chi_{145,1}$	.	.	1	.	.	1	1
$2431000_2 = \chi_{146,1}$	.	1	.	.	1	.	1
$3620864_2 = \chi_{156,1}$	.	.	.	1	1	1	1

$\varphi_{1,0}$	=	1_1	$\varphi_{37,0}$	=	56507_1
$\varphi_{4,1}$	=	120_2	$\varphi_{38,0}$	=	60181_1
$\varphi_{7,1}$	=	985_2	$\varphi_{46,1}$	=	94569_2
$\varphi_{8,0}$	=	1699_1	$\varphi_{48,0}$	=	101387_1
$\varphi_{11,1}$	=	2551_2	$\varphi_{50,1}$	=	111011_2
$\varphi_{17,0}$	=	5373_1	$\varphi_{62,0}$	=	172480_1
$\varphi_{21,0}$	=	11440_1	$\varphi_{65,1}$	=	207229_2
$\varphi_{22,0}$	=	14213_1	$\varphi_{71,0}$	=	248083_1
$\varphi_{24,1}$	=	18463_2	$\varphi_{76,0}$	=	259486_1
$\varphi_{28,1}$	=	26861_2	$\varphi_{100,1}$	=	716671_2
$\varphi_{29,0}$	=	27334_1	$\varphi_{109,1}$	=	887789_2
$\varphi_{31,1}$	=	34849_2	$\varphi_{110,1}$	=	893756_2
$\varphi_{33,0}$	=	36586_1	$\varphi_{116,1}$	=	1122648_2
$\varphi_{36,0}$	=	54197_1			

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(Block 2:)	$\varphi_{65,0}$	$\varphi_{71,1}$	$\varphi_{76,1}$	$\varphi_{100,0}$	$\varphi_{109,0}$	$\varphi_{110,0}$	$\varphi_{116,0}$
$1_2 = \chi_{1,1}$	.	.	.	.	.	.	.
$120_1 = \chi_{4,0}$	.	.	.	.	.	.	.
$1105_1 = \chi_{7,0}$	.	.	.	.	.	.	.
$1700_2 = \chi_{8,1}$	.	.	.	.	.	.	.
$3536_1 = \chi_{10,0}$	.	.	.	.	.	.	.
$7072_2 = \chi_{19,1}$	.	.	.	.	.	.	.
$11440_2 = \chi_{21,1}$	.	.	.	.	.	.	.
$15912_2 = \chi_{22,1}$	.	.	.	.	.	.	.
$19448_1 = \chi_{24,0}$	.	.	.	.	.	.	.
$37400_1 = \chi_{30,0}$	.	.	.	.	.	.	.
$48620_2 = \chi_{33,1}$	.	.	.	.	.	.	.
$65637_2 = \chi_{35,1}$	.	.	.	.	.	.	.
$70720_2 = \chi_{37,1}$	.	.	.	.	.	.	.
$87516_2 = \chi_{40,1}$	.	.	.	.	.	.	.
$116688_1 = \chi_{41,0}$	.	.	.	.	.	.	.
$121550_1 = \chi_{43,0}$	.	.	.	.	.	.	.
$134640_2 = \chi_{48,1}$	.	.	.	.	.	.	.
$145860_1 = \chi_{50,0}$	.	.	.	.	.	.	.
$155584_2 = \chi_{53,1}$	.	.	.	.	.	.	.
$194480_2 = \chi_{57,1}$	.	.	.	.	.	.	.
$291720_2 = \chi_{70,1}$	.	.	1	.	.	.	.
$318240_1 = \chi_{71,0}$	1	.	.	.	.	.	.
$364650_2 = \chi_{78,1}$	.	.	.	.	.	.	.
$388960_2 = \chi_{79,1}$	.	.	1	.	.	.	.
$466752_1 = \chi_{83,0}$	1	1	.	.	.	.	.
$486200_2 = \chi_{84,1}$	.	1	.	.	.	.	.
$848640_1 = \chi_{106,0}$	.	.	.	1	.	.	.
$972400_1 = \chi_{112,0}$	.	.	.	.	.	1	.
$1454112_1 = \chi_{131,0}$	1	1	.	.	1	.	.
$1591200_2 = \chi_{134,1}$	.	.	1	.	.	.	1
$1750320_1 = \chi_{139,0}$	.	.	.	1	.	1	.
$1750320_3 = \chi_{140,0}$	.	.	.	1	1	.	.
$2362932_1 = \chi_{145,0}$	.	.	1	.	.	1	1
$2431000_1 = \chi_{146,0}$	.	1	.	.	1	.	1
$3620864_1 = \chi_{156,0}$	.	.	.	1	1	1	1

$\varphi_{1,1}$	=	1_2	$\varphi_{37,1}$	=	56507_2
$\varphi_{4,0}$	=	120_1	$\varphi_{38,1}$	=	60181_2
$\varphi_{7,0}$	=	985_1	$\varphi_{46,0}$	=	94569_1
$\varphi_{8,1}$	=	1699_2	$\varphi_{48,1}$	=	101387_2
$\varphi_{11,0}$	=	2551_1	$\varphi_{50,0}$	=	111011_1
$\varphi_{17,1}$	=	5373_2	$\varphi_{62,1}$	=	172480_2
$\varphi_{21,1}$	=	11440_2	$\varphi_{65,0}$	=	207229_1
$\varphi_{22,1}$	=	14213_2	$\varphi_{71,1}$	=	248083_2
$\varphi_{24,0}$	=	18463_1	$\varphi_{76,1}$	=	259486_2
$\varphi_{28,0}$	=	26861_1	$\varphi_{100,0}$	=	716671_1
$\varphi_{29,1}$	=	27334_2	$\varphi_{109,0}$	=	887789_1
$\varphi_{31,0}$	=	34849_1	$\varphi_{110,0}$	=	893756_1
$\varphi_{33,1}$	=	36586_2	$\varphi_{116,0}$	=	1122648_1
$\varphi_{36,1}$	=	54197_2			

[illegible]

(Block 3:)	$\varphi_{47,1}$	$\varphi_{49,0}$	$\varphi_{49,1}$	$\varphi_{54,0}$	$\varphi_{54,1}$	$\varphi_{68,0}$	$\varphi_{68,1}$	$\varphi_{69,0}$	$\varphi_{69,1}$	$\varphi_{73,0}$
$16_1 = \chi_{2,0}$	.	.	.	.	.	.	.	.	.	.
$16_2 = \chi_{2,1}$	.	.	.	.	.	.	.	.	.	.
$544_1 = \chi_{5,0}$	.	.	.	.	.	.	.	.	.	.
$544_2 = \chi_{5,1}$	.	.	.	.	.	.	.	.	.	.
$4862_1 = \chi_{13,0}$	.	.	.	.	.	.	.	.	.	.
$4862_2 = \chi_{13,1}$	.	.	.	.	.	.	.	.	.	.
$12870_1 = \chi_{17+}$	.	.	.	.	.	.	.	.	.	.
$20400_1 = \chi_{25,0}$	.	.	.	.	.	.	.	.	.	.
$20400_2 = \chi_{25,1}$	.	.	.	.	.	.	.	.	.	.
$116688_3 = \chi_{42,0}$	.	.	.	.	.	.	.	.	.	.
$116688_4 = \chi_{42,1}$	1	.	.	.	.	.	.	.	.	.
$159120_1 = \chi_{55,0}$	.	.	.	1	.	.	.	.	.	.
$159120_2 = \chi_{55,1}$	.	.	.	.	1	.	.	.	.	.
$233376_1 = \chi_{61,0}$	.	.	.	.	.	1	.	.	.	.
$233376_2 = \chi_{61,1}$	.	.	.	.	.	.	1	.	.	.
$243100_1 = \chi_{63,0}$	.	1	.	1	.	.	.	.	.	.
$243100_2 = \chi_{63,1}$	.	.	1	.	1	.	.	.	.	.
$353600_1 = \chi_{77,0}$	.	.	.	.	.	.	.	.	.	1
$353600_2 = \chi_{77,1}$	1	.	.	.	.	.	.	.	.	.
$583440_1 = \chi_{89,0}$	.	.	.	1	.	.	.	.	.	.
$583440_2 = \chi_{89,1}$	1	.	.	.	1	.	.	.	.	.
$583440_3 = \chi_{90,0}$	.	.	1	.	.	.	.	.	.	.
$583440_4 = \chi_{90,1}$	.	1	.	.	.	.	.	.	.	.
$700128_1 = \chi_{98,0}$	.	.	.	.	.	1	.	1	.	1
$700128_2 = \chi_{98,1}$	.	.	.	.	.	.	1	.	1	.
$908820_1 = \chi_{109,0}$	.	.	.	.	.	.	.	1	.	1
$908820_2 = \chi_{109,1}$	1	.	.	.	.	.	.	.	1	.
$972400_3 = \chi_{113,0}$	.	.	.	.	.	1	.	1	.	.
$972400_4 = \chi_{113,1}$	.	.	.	.	.	.	1	.	1	.
$1050192_1 = \chi_{116,0}$	.	1	.	1	.	.	.	.	.	.
$1050192_2 = \chi_{116,1}$	.	.	1	.	1	.	.	.	.	.
$1262250_1 = \chi_{94+}$	.	.	.	.	.	.	.	1	1	.
$1326000_1 = \chi_{124,0}$	.	.	.	.	.	.	.	1	.	.
$1326000_2 = \chi_{124,1}$	.	.	.	.	.	.	.	.	1	.
$1458600_1 = \chi_{99+}$	.	1	1	.	.	.	.	.	.	.

(Block 3:)	$\varphi_{73,1}$	φ_{59+}	$\varphi_{82,0}$	$\varphi_{82,1}$	$\varphi_{92,0}$	$\varphi_{92,1}$	φ_{74+}
$16_1 = \chi_{2,0}$	.	.	.	.	.	.	.
$16_2 = \chi_{2,1}$	.	.	.	.	.	.	.
$544_1 = \chi_{5,0}$	.	.	.	.	.	.	.
$544_2 = \chi_{5,1}$	.	.	.	.	.	.	.
$4862_1 = \chi_{13,0}$	.	.	.	.	.	.	.
$4862_2 = \chi_{13,1}$	.	.	.	.	.	.	.
$12870_1 = \chi_{17+}$	.	.	.	.	.	.	.
$20400_1 = \chi_{25,0}$	.	.	.	.	.	.	.
$20400_2 = \chi_{25,1}$	.	.	.	.	.	.	.
$116688_3 = \chi_{42,0}$	.	.	.	.	.	.	.
$116688_4 = \chi_{42,1}$	.	.	.	.	.	.	.
$159120_1 = \chi_{55,0}$	.	.	.	.	.	.	.
$159120_2 = \chi_{55,1}$	.	.	.	.	.	.	.
$233376_1 = \chi_{61,0}$	.	.	.	.	.	.	.
$233376_2 = \chi_{61,1}$	.	.	.	.	.	.	.
$243100_1 = \chi_{63,0}$	.	.	.	.	.	.	.
$243100_2 = \chi_{63,1}$	.	.	.	.	.	.	.
$353600_1 = \chi_{77,0}$	.	.	.	.	.	.	.
$353600_2 = \chi_{77,1}$	1	.	.	.	.	.	.
$583440_1 = \chi_{89,0}$	.	.	1	.	.	.	.
$583440_2 = \chi_{89,1}$	.	.	.	1	.	.	.
$583440_3 = \chi_{90,0}$	.	.	.	.	1	.	.
$583440_4 = \chi_{90,1}$	.	.	.	.	.	1	.
$700128_1 = \chi_{98,0}$	.	.	.	.	.	.	.
$700128_2 = \chi_{98,1}$	1	.	.	.	.	.	.
$908820_1 = \chi_{109,0}$	.	.	1	.	.	.	.
$908820_2 = \chi_{109,1}$	1	.	.	1	.	.	.
$972400_3 = \chi_{113,0}$	.	.	.	.	.	.	1
$972400_4 = \chi_{113,1}$	.	.	.	.	.	.	1
$1050192_1 = \chi_{116,0}$	.	.	1	.	1	.	.
$1050192_2 = \chi_{116,1}$	.	.	.	1	.	1	.
$1262250_1 = \chi_{94+}$	.	1	.	.	.	.	1
$1326000_1 = \chi_{124,0}$	.	1	1	.	1	.	.
$1326000_2 = \chi_{124,1}$	.	1	.	1	.	1	.
$1458600_1 = \chi_{99+}$	.	1	.	.	1	1	.

$\varphi_{2,0}$	$=$	16_1	$\varphi_{54,1}$	$=$	134370_2
$\varphi_{2,1}$	$=$	16_2	$\varphi_{68,0}$	$=$	220506_1
$\varphi_{5,0}$	$=$	528_1	$\varphi_{68,1}$	$=$	220506_2
$\varphi_{5,1}$	$=$	528_2	$\varphi_{69,0}$	$=$	222838_1
$\varphi_{13,0}$	$=$	4334_1	$\varphi_{69,1}$	$=$	222838_2
$\varphi_{13,1}$	$=$	4334_2	$\varphi_{73,0}$	$=$	256784_1
φ_{18+}	$=$	12870_1	$\varphi_{73,1}$	$=$	256784_2
$\varphi_{25,0}$	$=$	19872_1	φ_{59+}	$=$	300388_1
$\varphi_{25,1}$	$=$	19872_2	$\varphi_{82,0}$	$=$	332382_1
$\varphi_{47,0}$	$=$	96816_1	$\varphi_{82,1}$	$=$	332382_2
$\varphi_{47,1}$	$=$	96816_2	$\varphi_{92,0}$	$=$	470392_1
$\varphi_{49,0}$	$=$	108714_1	$\varphi_{92,1}$	$=$	470392_2
$\varphi_{49,1}$	$=$	108714_2	φ_{74+}	$=$	516186_1
$\varphi_{54,0}$	$=$	134370_1			

Block 4:	$\varphi_{3,0}$	$\varphi_{45,1}$	$\varphi_{63,0}$	$\varphi_{79,0}$	$\varphi_{106,0}$	$\varphi_{107,0}$	
$119_1 = \chi_{3,0}$	1	.	.	.	.	.	$\varphi_{3,0} = 119_1$
$85085_2 = \chi_{39,1}$	.	1	.	.	.	.	$\varphi_{45,1} = 85085_2$
$272272_1 = \chi_{66,0}$	1	.	.	1	.	.	$\varphi_{63,0} = 187187_1$
$272272_8 = \chi_{69,1}$	.	1	1	.	.	.	$\varphi_{79,0} = 272153_1$
$1047200_1 = \chi_{115,0}$	.	.	1	.	.	1	$\varphi_{106,0} = 841687_1$
$1113840_1 = \chi_{122,0}$	.	.	.	1	1	.	$\varphi_{107,0} = 860013_1$
$1701700_1 = \chi_{137,0}$	.	.	.	.	1	1	

Block 5:	$\varphi_{3,1}$	$\varphi_{45,0}$	$\varphi_{63,1}$	$\varphi_{79,1}$	$\varphi_{106,1}$	$\varphi_{107,1}$	
$119_2 = \chi_{3,1}$	1	.	.	.	.	.	$\varphi_{3,1} = 119_2$
$85085_1 = \chi_{39,0}$	.	1	.	.	.	.	$\varphi_{45,0} = 85085_1$
$272272_2 = \chi_{66,1}$	1	.	.	1	.	.	$\varphi_{63,1} = 187187_2$
$272272_7 = \chi_{69,0}$	.	1	1	.	.	.	$\varphi_{79,1} = 272153_2$
$1047200_2 = \chi_{115,1}$	.	.	1	.	.	1	$\varphi_{106,1} = 841687_2$
$1113840_2 = \chi_{122,1}$	.	.	.	1	1	.	$\varphi_{107,1} = 860013_2$
$1701700_2 = \chi_{137,1}$	.	.	.	.	1	1	

Block 6:	$\varphi_{6,0}$	$\varphi_{20,1}$	$\varphi_{78,0}$	$\varphi_{90,0}$	$\varphi_{96,1}$	$\varphi_{113,0}$	
$560_1 = \chi_{6,0}$	1	.	.	.	.	.	$\varphi_{6,0} = 560_1$
$8008_2 = \chi_{20,1}$	.	1	.	.	.	.	$\varphi_{20,1} = 8008_2$
$272272_5 = \chi_{68,0}$	1	.	1	.	.	.	$\varphi_{78,0} = 271712_1$
$565488_2 = \chi_{88,1}$	.	1	.	.	1	.	$\varphi_{90,0} = 408968_1$
$680680_3 = \chi_{97,0}$	.	.	1	1	.	.	$\varphi_{96,1} = 557480_2$
$1485120_1 = \chi_{132,0}$	.	.	.	1	.	1	$\varphi_{113,0} = 1076152_1$
$1633632_3 = \chi_{136,0}$	.	.	.	.	1	1	

Block 7:	$\varphi_{6,1}$	$\varphi_{20,0}$	$\varphi_{78,1}$	$\varphi_{90,1}$	$\varphi_{96,0}$	$\varphi_{113,1}$
$560_2 = \chi_{6,1}$	1	.	.	.	.	.
$8008_1 = \chi_{20,0}$	.	1	.	.	.	.
$272272_6 = \chi_{68,1}$	1	.	1	.	.	.
$565488_1 = \chi_{88,0}$	.	1	.	.	1	.
$680680_4 = \chi_{97,1}$	.	.	1	1	.	.
$1485120_2 = \chi_{132,1}$	.	.	.	1	.	1
$1633632_4 = \chi_{136,1}$	.	.	.	.	1	1

$$\begin{aligned}
\varphi_{6,1} &= 560_2 \\
\varphi_{20,0} &= 8008_1 \\
\varphi_{78,1} &= 271712_2 \\
\varphi_{90,1} &= 408968_2 \\
\varphi_{96,0} &= 557480_1 \\
\varphi_{113,1} &= 1076152_2
\end{aligned}$$

Block 8:	$\varphi_{9,0}$	$\varphi_{14,1}$	$\varphi_{57,0}$	$\varphi_{89,1}$	$\varphi_{95,1}$	$\varphi_{108,0}$
$1820_1 = \chi_{9,0}$	1	.	.	.	.	.
$4368_2 = \chi_{12,1}$	.	1	.	.	.	.
$148512_1 = \chi_{51,0}$	1	.	1	.	.	.
$408408_2 = \chi_{81,1}$	.	1	.	1	.	.
$891072_2 = \chi_{108,1}$	.	.	.	1	1	.
$1021020_1 = \chi_{114,0}$	.	.	1	.	.	1
$1361360_7 = \chi_{129,0}$	.	.	.	.	1	1

$$\begin{aligned}
\varphi_{9,0} &= 1820_1 \\
\varphi_{14,1} &= 4368_2 \\
\varphi_{57,0} &= 146692_1 \\
\varphi_{89,1} &= 404040_2 \\
\varphi_{95,1} &= 487032_2 \\
\varphi_{108,0} &= 874328_1
\end{aligned}$$

Block 9:	$\varphi_{9,1}$	$\varphi_{14,0}$	$\varphi_{57,1}$	$\varphi_{89,0}$	$\varphi_{95,0}$	$\varphi_{108,1}$
$1820_2 = \chi_{9,1}$	1	.	.	.	.	.
$4368_1 = \chi_{12,0}$	.	1	.	.	.	.
$148512_2 = \chi_{51,1}$	1	.	1	.	.	.
$408408_1 = \chi_{81,0}$	.	1	.	1	.	.
$891072_1 = \chi_{108,0}$	.	.	.	1	1	.
$1021020_2 = \chi_{114,1}$	.	.	1	.	.	1
$1361360_8 = \chi_{129,1}$	.	.	.	.	1	1

$$\begin{aligned}
\varphi_{9,1} &= 1820_2 \\
\varphi_{14,0} &= 4368_1 \\
\varphi_{57,1} &= 146692_2 \\
\varphi_{89,0} &= 404040_1 \\
\varphi_{95,0} &= 487032_1 \\
\varphi_{108,1} &= 874328_2
\end{aligned}$$

Block 10:	$\varphi_{10,0}$	$\varphi_{12,0}$	$\varphi_{61,1}$	$\varphi_{84,0}$	$\varphi_{97,1}$	$\varphi_{104,1}$
$3808_1 = \chi_{11,0}$	.	1	.	.	.	.
$6188_1 = \chi_{16,0}$	1	1	.	.	.	.
$157080_2 = \chi_{54,1}$	.	.	1	.	.	.
$340340_3 = \chi_{75,0}$	1	.	.	1	.	.
$742560_2 = \chi_{101,1}$	.	.	1	.	1	.
$1089088_5 = \chi_{121,0}$	.	.	.	1	.	1
$1336608_2 = \chi_{125,1}$	.	.	.	.	1	1

$$\begin{aligned}
\varphi_{10,0} &= 2380_1 \\
\varphi_{12,0} &= 3808_1 \\
\varphi_{61,1} &= 157080_2 \\
\varphi_{84,0} &= 337960_1 \\
\varphi_{97,1} &= 585480_2 \\
\varphi_{104,1} &= 751128_2
\end{aligned}$$

Block 11:	$\varphi_{10,1}$	$\varphi_{12,1}$	$\varphi_{61,0}$	$\varphi_{84,1}$	$\varphi_{97,0}$	$\varphi_{104,0}$		
$3808_2 = \chi_{11,1}$	.	1	.	.	.	.	$\varphi_{10,1} =$	2380_2
$6188_2 = \chi_{16,1}$	1	1	.	.	.	.	$\varphi_{12,1} =$	3808_2
$157080_1 = \chi_{54,0}$	.	.	1	.	.	.	$\varphi_{61,0} =$	157080_1
$340340_4 = \chi_{75,1}$	1	.	.	1	.	.	$\varphi_{84,1} =$	337960_2
$742560_1 = \chi_{101,0}$	.	.	1	.	1	.	$\varphi_{97,0} =$	585480_1
$1089088_6 = \chi_{121,1}$	.	.	.	1	.	1	$\varphi_{104,0} =$	751128_1
$1336608_1 = \chi_{125,0}$	.	.	.	.	1	1		

Block 12:	$\varphi_{15,0}$	$\varphi_{35,0}$	$\varphi_{58,1}$	$\varphi_{117,1}$	$\varphi_{120,0}$	$\varphi_{122,1}$
$5236_1 = \chi_{14,0}$	1	.	.	.	.	.
$46410_1 = \chi_{32,0}$	1	1	.	.	.	.
$148512_4 = \chi_{52,1}$	.	.	1	.	.	.
$1361360_1 = \chi_{126,0}$	.	1	.	.	1	.
$1570800_2 = \chi_{133,1}$	.	.	1	.	.	1
$2450448_1 = \chi_{149,0}$	.	.	.	1	1	.
$2552550_2 = \chi_{151,1}$	.	.	.	1	.	1

$$\begin{array}{llll}
\varphi_{15,0} & = & 5236_1 & \varphi_{117,1} = 1130262_2 \\
\varphi_{35,0} & = & 41174_1 & \varphi_{120,0} = 1320186_1 \\
\varphi_{58,1} & = & 148512_2 & \varphi_{122,1} = 1422288_2
\end{array}$$

Block 13:	$\varphi_{15,1}$	$\varphi_{35,1}$	$\varphi_{58,0}$	$\varphi_{117,0}$	$\varphi_{120,1}$	$\varphi_{122,0}$
$5236_2 = \chi_{14,1}$	1	.	.	.	.	.
$46410_2 = \chi_{32,1}$	1	1	.	.	.	.
$148512_3 = \chi_{52,0}$	.	.	1	.	.	.
$1361360_2 = \chi_{126,1}$	.	1	.	.	1	.
$1570800_1 = \chi_{133,0}$	.	.	1	.	.	1
$2450448_2 = \chi_{149,1}$	.	.	.	1	1	.
$2552550_1 = \chi_{151,0}$	.	.	.	1	.	1

$$\begin{array}{llll}
\varphi_{15,1} & = & 5236_2 & \varphi_{117,0} = 1130262_1 \\
\varphi_{35,1} & = & 41174_2 & \varphi_{120,1} = 1320186_2 \\
\varphi_{58,0} & = & 148512_1 & \varphi_{122,0} = 1422288_1
\end{array}$$

Block 14:	$\varphi_{16,0}$	$\varphi_{34,1}$	$\varphi_{51,0}$	$\varphi_{94,1}$	$\varphi_{101,0}$	$\varphi_{126,1}$
$5355_1 = \chi_{15,0}$	1	.	.	.	.	.
$38675_2 = \chi_{31,1}$	.	1	.	.	.	.
$123760_3 = \chi_{45,0}$	1	.	1	.	.	.
$523600_2 = \chi_{85,1}$	.	1	.	1	.	.
$850850_1 = \chi_{107,0}$	.	.	1	.	1	.
$2475200_2 = \chi_{150,1}$	.	.	.	1	.	1
$2722720_1 = \chi_{153,0}$	.	.	.	.	1	1

$\varphi_{16,0}$	=	5355_1
$\varphi_{34,1}$	=	38675_2
$\varphi_{51,0}$	=	118405_1
$\varphi_{94,1}$	=	484925_2
$\varphi_{101,0}$	=	732445_1
$\varphi_{126,1}$	=	1990275_2

Block 15:	$\varphi_{16,1}$	$\varphi_{34,0}$	$\varphi_{51,1}$	$\varphi_{94,0}$	$\varphi_{101,1}$	$\varphi_{126,0}$
$5355_2 = \chi_{15,1}$	1	.	.	.	.	.
$38675_1 = \chi_{31,0}$	.	1	.	.	.	.
$123760_4 = \chi_{45,1}$	1	.	1	.	.	.
$523600_1 = \chi_{85,0}$	.	1	.	1	.	.
$850850_2 = \chi_{107,1}$	.	.	1	.	1	.
$2475200_1 = \chi_{150,0}$	.	.	.	1	.	1
$2722720_2 = \chi_{153,1}$	.	.	.	.	1	1

$\varphi_{16,1}$	=	5355_2
$\varphi_{34,0}$	=	38675_1
$\varphi_{51,1}$	=	118405_2
$\varphi_{94,0}$	=	484925_1
$\varphi_{101,1}$	=	732445_2
$\varphi_{126,0}$	=	1990275_1

Block 16:	$\varphi_{23,0}$	$\varphi_{23,1}$	$\varphi_{81,0}$	$\varphi_{81,1}$	$\varphi_{105,0}$	$\varphi_{105,1}$
$17017_1 = \chi_{23,0}$	1	.	.	.	.	.
$17017_2 = \chi_{23,1}$	.	1	.	.	.	.
$340340_1 = \chi_{74,0}$	1	.	1	.	.	.
$340340_2 = \chi_{74,1}$	.	1	.	1	.	.
$1089088_3 = \chi_{120,0}$	.	.	1	.	1	.
$1089088_4 = \chi_{120,1}$	.	.	.	1	.	1
$1531530_1 = \chi_{103+}$	.	.	.	.	1	1

$\varphi_{23,0}$	=	17017_1
$\varphi_{23,1}$	=	17017_2
$\varphi_{81,0}$	=	323323_1
$\varphi_{81,1}$	=	323323_2
$\varphi_{105,0}$	=	765765_1
$\varphi_{105,1}$	=	765765_2

Block 17:	$\varphi_{26,0}$	$\varphi_{43,1}$	$\varphi_{72,1}$	$\varphi_{80,0}$	$\varphi_{99,0}$	$\varphi_{121,1}$
$20944_1 = \chi_{26,0}$	1	.	.	.	.	.
$74256_2 = \chi_{38,1}$	.	1	.	.	.	.
$327250_2 = \chi_{72,1}$	.	1	1	.	.	.
$618800_1 = \chi_{92,0}$	1	.	.	.	1	.
$918918_1 = \chi_{110,0}$	.	.	.	1	1	.
$1633632_2 = \chi_{135,1}$	.	.	1	.	.	1
$1701700_4 = \chi_{138,1}$	.	.	.	1	.	1

$\varphi_{26,0}$	=	20944_1
$\varphi_{43,1}$	=	74256_2
$\varphi_{72,1}$	=	252994_2
$\varphi_{80,0}$	=	321062_1
$\varphi_{99,0}$	=	597856_1
$\varphi_{121,1}$	=	1380638_2

Block 18:	$\varphi_{26,1}$	$\varphi_{43,0}$	$\varphi_{72,0}$	$\varphi_{80,1}$	$\varphi_{99,1}$	$\varphi_{121,0}$
$20944_2 = \chi_{26,1}$	1	.	.	.	.	.
$74256_1 = \chi_{38,0}$	.	1	.	.	.	.
$327250_1 = \chi_{72,0}$	.	1	1	.	.	.
$618800_2 = \chi_{92,1}$	1	.	.	.	1	.
$918918_2 = \chi_{110,1}$	.	.	.	1	1	.
$1633632_1 = \chi_{135,0}$	.	.	1	.	.	1
$1701700_3 = \chi_{138,0}$	.	.	.	1	.	1

$\varphi_{26,1}$	=	20944_2
$\varphi_{43,0}$	=	74256_1
$\varphi_{72,0}$	=	252994_1
$\varphi_{80,1}$	=	321062_2
$\varphi_{99,1}$	=	597856_2
$\varphi_{121,0}$	=	1380638_1

Block 19:	$\varphi_{27,0}$	$\varphi_{42,1}$	$\varphi_{56,0}$	$\varphi_{87,0}$	$\varphi_{112,1}$	$\varphi_{118,1}$
$24752_1 = \chi_{27,0}$	1	.	.	.	.	.
$68068_2 = \chi_{36,1}$	.	1	.	.	.	.
$170170_1 = \chi_{56,0}$	1	.	1	.	.	.
$544544_1 = \chi_{86,0}$	.	.	1	1	.	.
$1361360_4 = \chi_{127,1}$	.	1	.	.	.	1
$1361360_6 = \chi_{128,1}$	.	.	.	1	1	.
$2255526_2 = \chi_{144,1}$	.	.	.	.	1	1

$\varphi_{27,0}$	=	24752_1
$\varphi_{42,1}$	=	68068_2
$\varphi_{56,0}$	=	145418_1
$\varphi_{87,0}$	=	399126_1
$\varphi_{112,1}$	=	962234_2
$\varphi_{118,1}$	=	1293292_2

Block 20:	$\varphi_{27,1}$	$\varphi_{42,0}$	$\varphi_{56,1}$	$\varphi_{87,1}$	$\varphi_{112,0}$	$\varphi_{118,0}$
$24752_2 = \chi_{27,1}$	1	.	.	.	.	.
$68068_1 = \chi_{36,0}$	.	1	.	.	.	.
$170170_2 = \chi_{56,1}$	1	.	1	.	.	.
$544544_2 = \chi_{86,1}$	.	.	1	1	.	.
$1361360_3 = \chi_{127,0}$	.	1	.	.	.	1
$1361360_5 = \chi_{128,0}$	.	.	.	1	1	.
$2255526_1 = \chi_{144,0}$	.	.	.	.	1	1

$\varphi_{27,1}$	=	24752_2
$\varphi_{42,0}$	=	68068_1
$\varphi_{56,1}$	=	145418_2
$\varphi_{87,1}$	=	399126_2
$\varphi_{112,0}$	=	962234_1
$\varphi_{118,0}$	=	1293292_1

Block 23:	$\varphi_{32,0}$	$\varphi_{39,0}$	$\varphi_{55,1}$	$\varphi_{64,1}$	$\varphi_{67,0}$	$\varphi_{93,1}$
$35700_1 = \chi_{29,0}$	1	.	.	.	.	.
$204204_2 = \chi_{58,1}$	.	1	1	.	.	.
$205632_2 = \chi_{59,1}$	.	.	.	1	.	.
$247520_1 = \chi_{64,0}$	1	.	.	.	1	.
$272272_3 = \chi_{67,0}$	.	1	.	.	1	.
$618800_4 = \chi_{93,1}$	.	.	1	.	.	1
$680680_2 = \chi_{96,1}$	.	.	.	1	.	1

$\varphi_{32,0}$	=	35700_1
$\varphi_{39,0}$	=	60452_1
$\varphi_{55,1}$	=	143752_2
$\varphi_{64,1}$	=	205632_2
$\varphi_{67,0}$	=	211820_1
$\varphi_{93,1}$	=	475048_2

Block 24:	$\varphi_{32,1}$	$\varphi_{39,1}$	$\varphi_{55,0}$	$\varphi_{64,0}$	$\varphi_{67,1}$	$\varphi_{93,0}$
$35700_2 = \chi_{29,1}$	1	.	.	.	.	.
$204204_1 = \chi_{58,0}$	.	1	1	.	.	.
$205632_1 = \chi_{59,0}$	.	.	.	1	.	.
$247520_2 = \chi_{64,1}$	1	.	.	.	1	.
$272272_4 = \chi_{67,1}$	.	1	.	.	1	.
$618800_3 = \chi_{93,0}$	.	.	1	.	.	1
$680680_1 = \chi_{96,0}$	.	.	.	1	.	1

$$\begin{aligned}
\varphi_{32,1} &= 35700_2 \\
\varphi_{39,1} &= 60452_2 \\
\varphi_{55,0} &= 143752_1 \\
\varphi_{64,0} &= 205632_1 \\
\varphi_{67,1} &= 211820_2 \\
\varphi_{93,0} &= 475048_1
\end{aligned}$$

Block 25:	$\varphi_{40,0}$	$\varphi_{41,0}$	$\varphi_{44,0}$	$\varphi_{66,1}$	$\varphi_{86,1}$	$\varphi_{102,1}$
$62832_1 = \chi_{34,0}$	.	1	.	.	.	.
$123760_1 = \chi_{44,0}$	1	1	.	.	.	.
$136136_1 = \chi_{49,0}$	1	.	1	.	.	.
$209440_2 = \chi_{60,1}$	.	.	.	1	.	.
$556920_2 = \chi_{87,1}$	.	.	.	1	1	.
$816816_2 = \chi_{105,1}$	.	.	1	.	.	1
$1089088_2 = \chi_{119,1}$	.	.	.	.	1	1

$$\begin{aligned}
\varphi_{40,0} &= 60928_1 \\
\varphi_{41,0} &= 62832_1 \\
\varphi_{44,0} &= 75208_1 \\
\varphi_{66,1} &= 209440_2 \\
\varphi_{86,1} &= 347480_2 \\
\varphi_{102,1} &= 741608_2
\end{aligned}$$

Block 26:	$\varphi_{40,1}$	$\varphi_{41,1}$	$\varphi_{44,1}$	$\varphi_{66,0}$	$\varphi_{86,0}$	$\varphi_{102,0}$
$62832_2 = \chi_{34,1}$	.	1	.	.	.	.
$123760_2 = \chi_{44,1}$	1	1	.	.	.	.
$136136_2 = \chi_{49,1}$	1	.	1	.	.	.
$209440_1 = \chi_{60,0}$	.	.	.	1	.	.
$556920_1 = \chi_{87,0}$	.	.	.	1	1	.
$816816_1 = \chi_{105,0}$	.	.	1	.	.	1
$1089088_1 = \chi_{119,0}$	.	.	.	.	1	1

$$\begin{aligned}
\varphi_{40,1} &= 60928_2 \\
\varphi_{41,1} &= 62832_2 \\
\varphi_{44,1} &= 75208_2 \\
\varphi_{66,0} &= 209440_1 \\
\varphi_{86,0} &= 347480_1 \\
\varphi_{102,0} &= 741608_1
\end{aligned}$$