

$Fi_{22}.2 \pmod{5}$

	blocks	defect	matrix
$G :$	1	2	20×16
	2	2	20×16
	3	1	5×4
	4	1	5×4
	5	0	$10725_1 = \chi_{8,0}, \varphi_{8,0}$
	6	0	$10725_2 = \chi_{8,1}, \varphi_{8,1}$
	7	0	$13650_1 = \chi_{9,0}, \varphi_{9,0}$
	8	0	$13650_2 = \chi_{9,1}, \varphi_{9,1}$
	9	1	5×4
	10	1	5×4
	11	0	$50050_1 = \chi_{15,0}, \varphi_{15,0}$
	12	0	$50050_2 = \chi_{15,1}, \varphi_{15,1}$
	13	0	$50050_3 = \chi_{16,0}, \varphi_{16,0}$
	14	0	$50050_4 = \chi_{16,1}, \varphi_{16,1}$
	15	0	$75075_1 = \chi_{17,0}, \varphi_{17,0}$
	16	0	$75075_2 = \chi_{17,1}, \varphi_{17,1}$
	17	0	$75075_3 = \chi_{18,0}, \varphi_{18,0}$
	18	0	$75075_4 = \chi_{18,1}, \varphi_{18,1}$
	19	0	$75075_5 = \chi_{19,0}, \varphi_{19,0}$
	20	0	$75075_6 = \chi_{19,1}, \varphi_{19,1}$
	21	0	$114400_1 = \chi_{21,0}, \varphi_{21,0}$
	22	0	$114400_2 = \chi_{21,1}, \varphi_{21,1}$
	23	0	$277200_1 = \chi_{22+}, \varphi_{22+}$
	24	0	$150150_1 = \chi_{24,0}, \varphi_{24,0}$
	25	0	$150150_2 = \chi_{24,1}, \varphi_{24,1}$
	26	0	$289575_1 = \chi_{26,0}, \varphi_{28,0}$
	27	0	$289575_2 = \chi_{26,1}, \varphi_{28,1}$
	28	0	$300300_1 = \chi_{27,0}, \varphi_{29,0}$
	29	0	$300300_2 = \chi_{27,1}, \varphi_{29,1}$
	30	0	$800800_1 = \chi_{31+}, \varphi_{32+}$
	31	0	$800800_2 = \chi_{33+}, \varphi_{34+}$
	32	0	$450450_1 = \chi_{35,0}, \varphi_{36,0}$
	33	0	$450450_2 = \chi_{35,1}, \varphi_{36,1}$
	34	0	$450450_3 = \chi_{36,0}, \varphi_{37,0}$
	35	0	$450450_4 = \chi_{36,1}, \varphi_{37,1}$
	36	0	$579150_1 = \chi_{39,0}, \varphi_{39,0}$
	37	0	$579150_2 = \chi_{39,1}, \varphi_{39,1}$
	38	0	$1164800_1 = \chi_{40+}, \varphi_{40+}$
	39	0	$600600_1 = \chi_{42,0}, \varphi_{42,0}$
	40	0	$600600_2 = \chi_{42,1}, \varphi_{42,1}$

	blocks	defect	matrix
	41	0	$1201200_1 = \chi_{43+}, \varphi_{43+}$
	42	0	$675675_1 = \chi_{45,0}, \varphi_{46,0}$
	43	0	$675675_2 = \chi_{45,1}, \varphi_{46,1}$
	44	0	$800800_3 = \chi_{47,0}, \varphi_{48,0}$
	45	0	$800800_4 = \chi_{47,1}, \varphi_{48,1}$
	46	0	$1965600_1 = \chi_{51+}, \varphi_{50+}$
	47	0	$1201200_2 = \chi_{53,0}, \varphi_{53,0}$
	48	0	$1201200_3 = \chi_{53,1}, \varphi_{53,1}$
	49	0	$1360800_1 = \chi_{54,0}, \varphi_{55,0}$
	50	0	$1360800_2 = \chi_{54,1}, \varphi_{55,1}$
	51	0	$1372800_1 = \chi_{55,0}, \varphi_{56,0}$
	52	0	$1372800_2 = \chi_{55,1}, \varphi_{56,1}$
	53	0	$2027025_1 = \chi_{59,0}, \varphi_{57,0}$
	54	0	$2027025_2 = \chi_{59,1}, \varphi_{57,1}$
	55	0	$2316600_1 = \chi_{61,0}, \varphi_{58,0}$
	56	0	$2316600_2 = \chi_{61,1}, \varphi_{58,1}$
	57	0	$2402400_1 = \chi_{62,0}, \varphi_{59,0}$
	58	0	$2402400_2 = \chi_{62,1}, \varphi_{59,1}$
$2.G :$	59	2	16×14
	60	1	5×4
	61	0	$105600_1 = \chi_{78,0}, \varphi_{73,0}$
	62	0	$105600_2 = \chi_{78,1}, \varphi_{73,1}$
	$63 = \overline{62}$	0	$105600_3 = \chi_{79,0}, \varphi_{74,0}$
	$64 = \overline{61}$	0	$105600_4 = \chi_{79,1}, \varphi_{74,1}$
	65	0	$123200_1 = \chi_{80,0}, \varphi_{77,0}$
	$66 = \overline{65}$	0	$123200_2 = \chi_{80,1}, \varphi_{77,1}$
	67	0	$228800_1 = \chi_{84,0}, \varphi_{78,0}$
	$68 = \overline{67}$	0	$228800_2 = \chi_{84,1}, \varphi_{78,1}$
	69	0	$800800_5 = \chi_{89+}, \varphi_{81+}$
	70	0	$873600_1 = \chi_{91+}, \varphi_{83+}$
	71	0	$1372800_3 = \chi_{95+}, \varphi_{87+}$
	72	0	$1830400_1 = \chi_{97+}, \varphi_{89+}$
	73	0	$1029600_1 = \chi_{99,0}, \varphi_{91,0}$
	$74 = \overline{73}$	0	$1029600_2 = \chi_{99,1}, \varphi_{91,1}$
	75	0	$2402400_3 = \chi_{100+}, \varphi_{94+}$
	76	0	$3326400_1 = \chi_{105+}, \varphi_{97+}$
	77	0	$4804800_1 = \chi_{111+}, \varphi_{101+}$
$3.G :$	78	2	20×16
	79	1	5×4
	80	0	$103950_1 = \chi_{123+}, \varphi_{113+}$

	blocks	defect	matrix
	81	0	$122850_1 = \chi_{125+}, \varphi_{114+}$
	82	0	$193050_1 = \chi_{126+}, \varphi_{116+}$
	83	0	$475200_1 = \chi_{129+}, \varphi_{118+}$
	84	0	$579150_3 = \chi_{130+}, \varphi_{119+}$
	85	1	5×4
	86	0	$737100_1 = \chi_{132+}, \varphi_{122+}$
	87	0	$737100_2 = \chi_{133+}, \varphi_{123+}$
	88	0	$772200_1 = \chi_{134+}, \varphi_{126+}$
	89	0	$1351350_1 = \chi_{141+}, \varphi_{131+}$
	90	0	$1351350_2 = \chi_{142+}, \varphi_{132+}$
	91	0	$1544400_1 = \chi_{143+}, \varphi_{133+}$
	92	0	$2702700_1 = \chi_{150+}, \varphi_{138+}$
	93	0	$2702700_2 = \chi_{151+}, \varphi_{139+}$
	94	0	$2702700_3 = \chi_{152+}, \varphi_{140+}$
	95	0	$2702700_4 = \chi_{153+}, \varphi_{141+}$
	96	0	$3316950_1 = \chi_{155+}, \varphi_{142+}$
	97	0	$3316950_2 = \chi_{156+}, \varphi_{143+}$
	98	0	$3931200_1 = \chi_{161+}, \varphi_{144+}$
	99	0	$3931200_2 = \chi_{162+}, \varphi_{145+}$
	100	0	$6177600_1 = \chi_{164+}, \varphi_{146+}$
6.G :	101	2	20×16
	102	1	5×4
	$103 = \overline{102}$	1	5×4
	104	0	$2246400_1 = \chi_{186+}, \varphi_{171+}$
	$105 = \overline{104}$	0	$2246400_2 = \chi_{187+}, \varphi_{172+}$
	106	0	$6177600_2 = \chi_{197+}, \varphi_{173+}$
	$107 = \overline{106}$	0	$6177600_3 = \chi_{198+}, \varphi_{174+}$

Block 1:	$\varphi_{1,0}$	$\varphi_{2,1}$	$\varphi_{3,0}$	$\varphi_{4,1}$	$\varphi_{6,0}$	$\varphi_{11,1}$	$\varphi_{14,0}$	$\varphi_{20,0}$	$\varphi_{26,0}$	$\varphi_{27,1}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.
$78_2 = \chi_{2,1}$.	1	.	.	.	.	.	.	.	.
$429_1 = \chi_{3,0}$	1	.	1	.	.	.	.	.	.	.
$1001_2 = \chi_{4,1}$.	.	.	1	.	.	.	.	.	.
$3003_1 = \chi_{6,0}$	1	.	.	.	.	.
$32032_2 = \chi_{11,1}$.	1	.	.	.	1	.	.	.	.
$48048_1 = \chi_{14,0}$.	.	1	.	.	.	1	.	.	.
$81081_1 = \chi_{20,0}$.	.	1	.	.	.	.	1	.	.
$370656_2 = \chi_{30,1}$.	.	.	1	.	.	1	.	.	.
$576576_1 = \chi_{37,0}$	1	.	.	1	.	.
$577368_2 = \chi_{38,1}$.	1	.	1	.	.	.	.	.	1
$938223_2 = \chi_{49,1}$	1	.	.	.	.
$972972_2 = \chi_{50,1}$.	1	.	.	.	1	.	.	.	.
$1441792_1 = \chi_{56,0}$	1	.	1	.	.	.	1	1	.	.
$1791153_1 = \chi_{57,0}$	1	.	.	.	.	.	.	.	1	1
$1876446_1 = \chi_{58,0}$	1	.	.	.	1	.
$2050048_2 = \chi_{60,1}$	1	.	.	.	.
$2555904_2 = \chi_{63,1}$
$2555904_4 = \chi_{64,1}$	1	.	.	1
$2729376_1 = \chi_{65,0}$	1	1	.

(Block 1:)	$\varphi_{31,1}$	$\varphi_{38,0}$	$\varphi_{45,1}$	$\varphi_{49,1}$	$\varphi_{52,0}$	$\varphi_{54,0}$		
$1_1 = \chi_{1,0}$	$\varphi_{1,0} =$	1_1
$78_2 = \chi_{2,1}$	$\varphi_{2,1} =$	78_2
$429_1 = \chi_{3,0}$	$\varphi_{3,0} =$	428_1
$1001_2 = \chi_{4,1}$	$\varphi_{4,1} =$	1001_2
$3003_1 = \chi_{6,0}$	$\varphi_{6,0} =$	3003_1
$32032_2 = \chi_{11,1}$	$\varphi_{11,1} =$	31954_2
$48048_1 = \chi_{14,0}$	$\varphi_{14,0} =$	47620_1
$81081_1 = \chi_{20,0}$	$\varphi_{20,0} =$	80653_1
$370656_2 = \chi_{30,1}$	1	.	.	.	.	.	$\varphi_{26,0} =$	223808_1
$576576_1 = \chi_{37,0}$.	1	.	.	.	.	$\varphi_{27,1} =$	254254_2
$577368_2 = \chi_{38,1}$	1	.	.	.	.	.	$\varphi_{31,1} =$	322035_2
$938223_2 = \chi_{49,1}$.	.	.	1	.	.	$\varphi_{38,0} =$	492920_1
$972972_2 = \chi_{50,1}$	1	.	1	.	.	.	$\varphi_{45,1} =$	618905_2
$1441792_1 = \chi_{56,0}$	1	$\varphi_{49,1} =$	906269_2
$1791153_1 = \chi_{57,0}$	1	$\varphi_{52,0} =$	1156715_1
$1876446_1 = \chi_{58,0}$.	1	.	.	1	.	$\varphi_{54,0} =$	1313090_1
$2050048_2 = \chi_{60,1}$.	1	1	1	.	.		
$2555904_2 = \chi_{63,1}$.	1	.	1	1	.		
$2555904_4 = \chi_{64,1}$	1	.	1	.	.	1		
$2729376_1 = \chi_{65,0}$.	1	1	.	.	1		

Block 2:	$\varphi_{1,1}$	$\varphi_{2,0}$	$\varphi_{3,1}$	$\varphi_{4,0}$	$\varphi_{6,1}$	$\varphi_{11,0}$	$\varphi_{14,1}$	$\varphi_{20,1}$	$\varphi_{26,1}$	$\varphi_{27,0}$
$1_2 = \chi_{1,1}$	1	.	.	.	.	.	.	.	.	.
$78_1 = \chi_{2,0}$.	1	.	.	.	.	.	.	.	.
$429_2 = \chi_{3,1}$	1	.	1	.	.	.	.	.	.	.
$1001_1 = \chi_{4,0}$.	.	.	1	.	.	.	.	.	.
$3003_2 = \chi_{6,1}$	1	.	.	.	.	.
$32032_1 = \chi_{11,0}$.	1	.	.	.	1	.	.	.	.
$48048_2 = \chi_{14,1}$.	.	1	.	.	.	1	.	.	.
$81081_2 = \chi_{20,1}$.	.	1	.	.	.	.	1	.	.
$370656_1 = \chi_{30,0}$.	.	.	1	.	.	1	.	.	.
$576576_2 = \chi_{37,1}$	1	.	.	1	.	.
$577368_1 = \chi_{38,0}$.	1	.	1	.	.	.	.	.	1
$938223_1 = \chi_{49,0}$	1	.	.	.	.
$972972_1 = \chi_{50,0}$.	1	.	.	.	1	.	.	.	.
$1441792_2 = \chi_{56,1}$	1	.	1	.	.	.	1	1	.	.
$1791153_2 = \chi_{57,1}$	1	.	.	.	.	.	.	.	1	1
$1876446_2 = \chi_{58,1}$	1	.	.	.	1	.
$2050048_1 = \chi_{60,0}$	1	.	.	.	.
$2555904_1 = \chi_{63,0}$
$2555904_3 = \chi_{64,0}$	1	.	.	1
$2729376_2 = \chi_{65,1}$	1	1	.

(Block 2:)	$\varphi_{31,0}$	$\varphi_{38,1}$	$\varphi_{45,0}$	$\varphi_{49,0}$	$\varphi_{52,1}$	$\varphi_{54,1}$	
$1_2 = \chi_{1,1}$	$\varphi_{1,1} = 1_2$
$78_1 = \chi_{2,0}$	$\varphi_{2,0} = 78_1$
$429_2 = \chi_{3,1}$	$\varphi_{3,1} = 428_2$
$1001_1 = \chi_{4,0}$	$\varphi_{4,0} = 1001_1$
$3003_2 = \chi_{6,1}$	$\varphi_{6,1} = 3003_2$
$32032_1 = \chi_{11,0}$	$\varphi_{11,0} = 31954_1$
$48048_2 = \chi_{14,1}$	$\varphi_{14,1} = 47620_2$
$81081_2 = \chi_{20,1}$	$\varphi_{20,1} = 80653_2$
$370656_1 = \chi_{30,0}$	1	.	.	.	.	.	$\varphi_{26,1} = 223808_2$
$576576_2 = \chi_{37,1}$.	1	.	.	.	.	$\varphi_{27,0} = 254254_1$
$577368_1 = \chi_{38,0}$	1	.	.	.	.	.	$\varphi_{31,0} = 322035_1$
$938223_1 = \chi_{49,0}$.	.	.	1	.	.	$\varphi_{38,1} = 492920_2$
$972972_1 = \chi_{50,0}$	1	.	1	.	.	.	$\varphi_{45,0} = 618905_1$
$1441792_2 = \chi_{56,1}$	1	$\varphi_{49,0} = 906269_1$
$1791153_2 = \chi_{57,1}$	1	$\varphi_{52,1} = 1156715_2$
$1876446_2 = \chi_{58,1}$.	1	.	.	1	.	$\varphi_{54,1} = 1313090_2$
$2050048_1 = \chi_{60,0}$.	1	1	1	.	.	
$2555904_1 = \chi_{63,0}$.	1	.	1	1	.	
$2555904_3 = \chi_{64,0}$	1	.	1	.	.	1	
$2729376_2 = \chi_{65,1}$.	1	1	.	.	1	

Block 3:	$\varphi_{5,0}$	$\varphi_{7,1}$	$\varphi_{13,1}$	$\varphi_{30,0}$	
$1430_1 = \chi_{5,0}$	1	.	.	.	$\varphi_{5,0} = 1430_1$
$3080_2 = \chi_{7,1}$	.	1	.	.	$\varphi_{7,1} = 3080_2$
$45045_2 = \chi_{13,1}$	.	1	1	.	$\varphi_{13,1} = 41965_2$
$320320_1 = \chi_{28,0}$	1	.	.	1	$\varphi_{30,0} = 318890_1$
$360855_1 = \chi_{29,0}$	.	.	1	1	

Block 4:	$\varphi_{5,1}$	$\varphi_{7,0}$	$\varphi_{13,0}$	$\varphi_{30,1}$	
$1430_2 = \chi_{5,1}$	1	.	.	.	$\varphi_{5,1} = 1430_2$
$3080_1 = \chi_{7,0}$	.	1	.	.	$\varphi_{7,0} = 3080_1$
$45045_1 = \chi_{13,0}$	.	1	1	.	$\varphi_{13,0} = 41965_1$
$320320_2 = \chi_{28,1}$	1	.	.	1	$\varphi_{30,1} = 318890_2$
$360855_2 = \chi_{29,1}$	.	.	1	1	

Block 9:	$\varphi_{10,0}$	$\varphi_{12,1}$	$\varphi_{25,0}$	$\varphi_{47,1}$	
$30030_1 = \chi_{10,0}$	1	.	.	.	$\varphi_{10,0} = 30030_1$
$43680_2 = \chi_{12,1}$	.	1	.	.	$\varphi_{12,1} = 43680_2$
$205920_1 = \chi_{25,0}$	1	.	1	.	$\varphi_{25,0} = 175890_1$
$720720_2 = \chi_{46,1}$	.	1	.	1	$\varphi_{47,1} = 677040_2$
$852930_1 = \chi_{48,0}$	.	.	1	1	

Block 10:	$\varphi_{10,1}$	$\varphi_{12,0}$	$\varphi_{25,1}$	$\varphi_{47,0}$	
$30030_2 = \chi_{10,1}$	1	.	.	.	$\varphi_{10,1} = 30030_2$
$43680_1 = \chi_{12,0}$	.	1	.	.	$\varphi_{12,0} = 43680_1$
$205920_2 = \chi_{25,1}$	1	.	1	.	$\varphi_{25,1} = 175890_2$
$720720_1 = \chi_{46,0}$	.	1	.	1	$\varphi_{47,0} = 677040_1$
$852930_2 = \chi_{48,1}$	.	.	1	1	

Block 59:	$\varphi_{60,0}$	$\varphi_{60,1}$	φ_{63+}	φ_{65+}	φ_{67+}	φ_{69+}	$\varphi_{71,0}$	$\varphi_{71,1}$	$\varphi_{72,0}$	$\varphi_{72,1}$
$352_1 = \chi_{66,0}$	1	.	.	.	.	.	.	.	.	.
$352_2 = \chi_{66,1}$.	1	.	.	.	.	.	.	.	.
$11648_1 = \chi_{69+}$.	.	1	.	.	.	.	.	.	.
$11648_2 = \chi_{71+}$.	.	.	1	.	.	.	.	.	.
$27456_1 = \chi_{73+}$	1	1	.	.	1	.	.	.	.	.
$27456_2 = \chi_{75,0}$	1	.	.	.
$27456_3 = \chi_{75,1}$	1	.	.
$96096_1 = \chi_{76+}$.	.	1	1	1	1	.	.	.	.
$133056_1 = \chi_{81,0}$	1	.	.	1	.
$133056_2 = \chi_{81,1}$	1	.	.	.	1
$292864_1 = \chi_{82+}$.	.	1	1	1	.	.	.	.	.
$471744_1 = \chi_{85+}$	1	1	1	1
$2594592_1 = \chi_{102+}$.	.	1	1	1	1	.	.	1	1
$1441792_3 = \chi_{104,0}$	1	.	.	.	1	.	.	.	.	.
$1441792_4 = \chi_{104,1}$.	1	.	.	1	.	.	.	.	.
$5111808_1 = \chi_{113+}$	1	.	.	.	1	1

(Block 59:)	φ_{75+}	φ_{92+}	$\varphi_{96,0}$	$\varphi_{96,1}$	
$352_1 = \chi_{66,0}$	$\varphi_{60,0} = 352_1$
$352_2 = \chi_{66,1}$	$\varphi_{60,1} = 352_2$
$11648_1 = \chi_{69+}$	$\varphi_{63+} = 11648_1$
$11648_2 = \chi_{71+}$	$\varphi_{65+} = 11648_2$
$27456_1 = \chi_{73+}$	$\varphi_{67+} = 26752_1$
$27456_2 = \chi_{75,0}$	$\varphi_{69+} = 46048_1$
$27456_3 = \chi_{75,1}$	$\varphi_{71,0} = 27456_1$
$96096_1 = \chi_{76+}$	$\varphi_{71,1} = 27456_2$
$133056_1 = \chi_{81,0}$	$\varphi_{72,0} = 87008_1$
$133056_2 = \chi_{81,1}$	$\varphi_{72,1} = 87008_2$
$292864_1 = \chi_{82+}$	1	.	.	.	$\varphi_{75+} = 242816_1$
$471744_1 = \chi_{85+}$	1	.	.	.	$\varphi_{92+} = 2081664_1$
$2594592_1 = \chi_{102+}$	1	1	.	.	$\varphi_{96,0} = 1414688_1$
$1441792_3 = \chi_{104,0}$.	.	1	.	$\varphi_{96,1} = 1414688_2$
$1441792_4 = \chi_{104,1}$.	.	.	1	
$5111808_1 = \chi_{113+}$.	1	1	1	

Block 60:	φ_{61+}	φ_{79+}	φ_{85+}	φ_{99+}	
$4160_1 = \chi_{67+}$	1	.	.	.	$\varphi_{61+} = 4160_1$
$640640_1 = \chi_{87+}$	1	1	.	.	$\varphi_{79+} = 636480_1$
$960960_1 = \chi_{93+}$	.	.	1	.	$\varphi_{85+} = 960960_1$
$4392960_1 = \chi_{107+}$	.	1	.	1	$\varphi_{99+} = 3756480_1$
$4717440_1 = \chi_{109+}$	.	.	1	1	

(Block 78:)	φ_{117+}	φ_{120+}	φ_{124+}	φ_{128+}	φ_{130+}	φ_{135+}	φ_{136+}
$702_1 = \chi_{115+}$
$15444_1 = \chi_{116+}$
$24948_1 = \chi_{117+}$
$24948_2 = \chi_{118+}$
$39312_1 = \chi_{120+}$
$54054_1 = \chi_{121+}$
$108108_1 = \chi_{124+}$
$247104_1 = \chi_{127+}$
$471744_2 = \chi_{128+}$	1	.	.	.	.	.	.
$864864_1 = \chi_{137+}$	1	1	.	.	.	.	.
$988416_1 = \chi_{138+}$.	.	1	.	.	.	.
$1154736_1 = \chi_{139+}$.	.	.	1	.	.	.
$1216512_1 = \chi_{140+}$	1	.	.
$1876446_3 = \chi_{145+}$.	1	.	.	1	.	.
$2594592_2 = \chi_{148+}$.	1	1	.	1	.	.
$2594592_3 = \chi_{149+}$	1
$3459456_1 = \chi_{157+}$.	.	.	1	.	.	1
$3582306_1 = \chi_{158+}$.	1	.	1	.	1	.
$3752892_1 = \chi_{160+}$	1	1	1	.	.	1	.
$5458752_1 = \chi_{163+}$.	.	.	1	.	1	1

$$\begin{array}{ll}
\varphi_{103+} = 702_1 & \varphi_{115+} = 192348_1 \\
\varphi_{104+} = 4158_1 & \varphi_{117+} = 228798_1 \\
\varphi_{105+} = 11286_1 & \varphi_{120+} = 631908_1 \\
\varphi_{106+} = 24948_1 & \varphi_{124+} = 746172_1 \\
\varphi_{107+} = 24948_2 & \varphi_{128+} = 1014444_1 \\
\varphi_{108+} = 28026_1 & \varphi_{130+} = 1216512_1 \\
\varphi_{111+} = 54054_1 & \varphi_{135+} = 1903770_1 \\
\varphi_{112+} = 96822_1 & \varphi_{136+} = 2348190_1
\end{array}$$

Block 79:	φ_{109+}	φ_{110+}	φ_{125+}	φ_{134+}	
$38610_1 = \chi_{119+}$	1	.	.	.	$\varphi_{109+} = 38610_1$
$84240_1 = \chi_{122+}$	1	1	.	.	$\varphi_{110+} = 45630_1$
$810810_2 = \chi_{136+}$	.	1	1	.	$\varphi_{125+} = 765180_1$
$1705860_1 = \chi_{144+}$	.	.	.	1	$\varphi_{134+} = 1705860_1$
$2471040_1 = \chi_{147+}$	.	.	1	1	

Block 85:	φ_{121+}	φ_{127+}	φ_{129+}	φ_{137+}	
$721710_1 = \chi_{131+}$	1	.	.	.	$\varphi_{121+} = 721710_1$
$810810_1 = \chi_{135+}$	.	1	.	.	$\varphi_{127+} = 810810_1$
$1995840_1 = \chi_{146+}$	.	1	1	.	$\varphi_{129+} = 1185030_1$
$3243240_1 = \chi_{154+}$	1	.	.	1	$\varphi_{137+} = 2521530_1$
$3706560_1 = \chi_{159+}$	.	.	1	1	

Block 101:	φ_{147+}	φ_{148+}	φ_{151+}	φ_{152+}	φ_{155+}	φ_{156+}	φ_{157+}	φ_{160+}	φ_{161+}
$3456_1 = \chi_{165+}$	1	.	.	.	.	.	.	.	.
$3456_2 = \chi_{166+}$	.	1	.	.	.	.	.	.	.
$123552_1 = \chi_{167+}$	.	.	1	.	.	.	.	.	.
$123552_2 = \chi_{168+}$	.	.	.	1	.	.	.	.	.
$247104_2 = \chi_{173+}$	.	.	.	.	1	.	.	.	.
$628992_1 = \chi_{176+}$	1	.	.	.	.	.	.	1	.
$628992_2 = \chi_{177+}$	.	1	.	.	.	.	.	.	1
$628992_3 = \chi_{178+}$	.	1	.	.	.	.	.	.	.
$628992_4 = \chi_{179+}$	1	.	.	.	.	.	.	.	.
$718848_1 = \chi_{180+}$	.	.	1	.	.	1	.	.	.
$718848_2 = \chi_{181+}$	.	.	.	1	.	.	1	.	.
$864864_2 = \chi_{182+}$	1	.	.	.	.	.	.	.	.
$864864_3 = \chi_{183+}$	.	1	.	.	.	.	.	.	.
$3459456_2 = \chi_{190+}$	.	.	.	.	1	1	.	.	.
$3459456_3 = \chi_{191+}$	.	.	.	.	1	.	1	.	.
$3592512_1 = \chi_{192+}$	.	.	.	.	.	.	.	1	1
$3592512_2 = \chi_{193+}$	.	.	.	.	.	.	.	.	.
$5189184_1 = \chi_{194+}$	.	.	.	.	1	.	.	.	.
$5930496_1 = \chi_{195+}$	1	.	.	.	.	1	.	1	.
$5930496_2 = \chi_{196+}$	.	1	.	.	.	.	1	.	1

(Block 101:)	φ_{162+}	φ_{163+}	φ_{164+}	φ_{165+}	φ_{166+}	φ_{167+}	φ_{168+}
$3456_1 = \chi_{165+}$
$3456_2 = \chi_{166+}$
$123552_1 = \chi_{167+}$
$123552_2 = \chi_{168+}$
$247104_2 = \chi_{173+}$
$628992_1 = \chi_{176+}$
$628992_2 = \chi_{177+}$
$628992_3 = \chi_{178+}$	1	.	.	.	.	.	.
$628992_4 = \chi_{179+}$.	1	.	.	.	.	.
$718848_1 = \chi_{180+}$
$718848_2 = \chi_{181+}$
$864864_2 = \chi_{182+}$.	.	1	.	.	.	.
$864864_3 = \chi_{183+}$.	.	.	1	.	.	.
$3459456_2 = \chi_{190+}$.	.	1	.	1	1	.
$3459456_3 = \chi_{191+}$.	.	.	1	1	1	.
$3592512_1 = \chi_{192+}$	1	1
$3592512_2 = \chi_{193+}$	1	1	.	.	1	.	1
$5189184_1 = \chi_{194+}$.	.	1	1	1	1	1
$5930496_1 = \chi_{195+}$.	1	1	.	1	1	1
$5930496_2 = \chi_{196+}$	1	.	.	1	1	1	1

$$\begin{aligned}
\varphi_{147+} &= 3456_1 & \varphi_{161+} &= 625536_2 \\
\varphi_{148+} &= 3456_2 & \varphi_{162+} &= 625536_3 \\
\varphi_{151+} &= 123552_1 & \varphi_{163+} &= 625536_4 \\
\varphi_{152+} &= 123552_2 & \varphi_{164+} &= 861408_1 \\
\varphi_{155+} &= 247104_1 & \varphi_{165+} &= 861408_2 \\
\varphi_{156+} &= 595296_1 & \varphi_{166+} &= 877824_1 \\
\varphi_{157+} &= 595296_2 & \varphi_{167+} &= 877824_2 \\
\varphi_{160+} &= 625536_1 & \varphi_{168+} &= 1463616_1
\end{aligned}$$

Blocks 102, 103:	φ_{149+}	φ_{153+}	φ_{159+}	φ_{170+}
$142560_1 = \chi_{169+}$	.	1	.	.
$224640_1 = \chi_{171+}$	1	1	.	.
$617760_2 = \chi_{175+}$	.	.	1	.
$1935360_2 = \chi_{185+}$	1	.	.	1
$2471040_3 = \chi_{189+}$	.	.	1	1

$$\begin{aligned}
\varphi_{149+} &= 82080_1 \\
\varphi_{153+} &= 142560_1 \\
\varphi_{159+} &= 617760_2 \\
\varphi_{170+} &= 1853280_2
\end{aligned}$$

Block 103:	φ_{150+}	φ_{154+}	φ_{158+}	φ_{169+}
$142560_2 = \chi_{170+}$	.	1	.	.
$224640_2 = \chi_{172+}$	1	1	.	.
$617760_1 = \chi_{174+}$	.	.	1	.
$1935360_1 = \chi_{184+}$	1	.	.	1
$2471040_2 = \chi_{188+}$	.	.	1	1

$$\begin{aligned} \varphi_{150+} &= 82080_2 \\ \varphi_{154+} &= 142560_2 \\ \varphi_{158+} &= 617760_1 \\ \varphi_{169+} &= 1853280_1 \end{aligned}$$