$Suz.2 \pmod 7$

	blocks	defect	matrix
$G:$	1	1	7×6
	2	1	7×6
	3	1	7×6
	4	1	7×6
	5	0	$364_1 = \chi_{3,0}, \varphi_{3,0}$
	6	0	$364_2 = \chi_{3,1}, \varphi_{3,1}$
	7	0	$1001_1 = \chi_{5,0}, \varphi_{5,0}$
	8	0	$1001_2 = \chi_{5,1}, \varphi_{5,1}$
	9	1	7×6
	10	0	$10010_1 = \chi_{7+}, \varphi_{7+}$
	11	0	$12012_1 = \chi_{11,0}, \varphi_{12,0}$
	12	0	$12012_2 = \chi_{11,1}, \varphi_{12,1}$
	13	0	$30030_1 = \chi_{13+}, \varphi_{14+}$
	14	0	$25025_1 = \chi_{17,0}, \varphi_{17,0}$
	15	0	$25025_2 = \chi_{17,1}, \varphi_{17,1}$
	16	0	$50050_1 = \chi_{18+}, \varphi_{18+}$
	17	0	$40040_1 = \chi_{20,0}, \varphi_{20,0}$
	18	0	$40040_2 = \chi_{20,1}, \varphi_{20,1}$
	19	0	$100100_1 = \chi_{21+}, \varphi_{21+}$
	20	0	$54054_1 = \chi_{23,0}, \varphi_{24,0}$
	21	0	$54054_2 = \chi_{23,1}, \varphi_{24,1}$
	22	0	$64064_1 = \chi_{24,0}, \varphi_{25,0}$
	23	0	$64064_2 = \chi_{24,1}, \varphi_{25,1}$
	24	0	$75075_1 = \chi_{28,0}, \varphi_{28,0}$
	25	0	$75075_2 = \chi_{28,1}, \varphi_{28,1}$
	26	0	$88452_1 = \chi_{30,0}, \varphi_{29,0}$
	27	0	$88452_2 = \chi_{30,1}, \varphi_{29,1}$
	28	0	$187110_1 = \chi_{31+}, \varphi_{30+}$
	29	0	$100100_2 = \chi_{33,0}, \varphi_{32,0}$
	30	0	$100100_3 = \chi_{33,1}, \varphi_{32,1}$
	31	0	$133056_1 = \chi_{34,0}, \varphi_{33,0}$
	32	0	$133056_2 = \chi_{34,1}, \varphi_{33,1}$
	33	0	$163800_1 = \chi_{36,0}, \varphi_{36,0}$
	34	0	$163800_2 = \chi_{36,1}, \varphi_{36,1}$
	35	0	$197120_1 = \chi_{40,0}, \varphi_{38,0}$
	36	0	$197120_2 = \chi_{40,1}, \varphi_{38,1}$
	37	0	$243243_1 = \chi_{42,0}, \varphi_{39,0}$
	38	0	$243243_2 = \chi_{42,1}, \varphi_{39,1}$
$2.G:$	39	1	7×6
	40	0	$728_1 = \chi_{45+}, \varphi_{41+}$

	blocks	defect	matrix
	41	1	5×3
	42	0	$4928_1 = \chi_{49,0}, \varphi_{45,0}$
	$43 = \overline{42}$	0	$4928_2 = \chi_{49,1}, \varphi_{45,1}$
	44	0	$32032_1 = \chi_{50+}, \varphi_{46+}$
	45	0	$20020_1 = \chi_{52,0}, \varphi_{48,0}$
	$46 = \overline{45}$	0	$20020_2 = \chi_{52,1}, \varphi_{48,1}$
	47	0	$20020_3 = \chi_{53,0}, \varphi_{49,0}$
	$48 = \overline{47}$	0	$20020_4 = \chi_{53,1}, \varphi_{49,1}$
	49	0	$120120_1 = \chi_{58+}, \varphi_{53+}$
	50	0	$122472_1 = \chi_{60+}, \varphi_{55+}$
	51	0	$80080_1 = \chi_{64,0}, \varphi_{59,0}$
	$52 = \overline{51}$	0	$80080_2 = \chi_{64,1}, \varphi_{59,1}$
	53	0	$80080_3 = \chi_{65,0}, \varphi_{60,0}$
	$54 = \overline{53}$	0	$80080_4 = \chi_{65,1}, \varphi_{60,1}$
	55	0	$100100_4 = \chi_{66,0}, \varphi_{61,0}$
	$56 = \overline{55}$	0	$100100_5 = \chi_{66,1}, \varphi_{61,1}$
	57	0	$128128_1 = \chi_{68,0}, \varphi_{63,0}$
	$58 = \overline{57}$	0	$128128_2 = \chi_{68,1}, \varphi_{63,1}$
	59	0	$288288_1 = \chi_{70+}, \varphi_{64+}$
	60	0	$192192_1 = \chi_{72,0}, \varphi_{66,0}$
	$61 = \overline{60}$	0	$192192_2 = \chi_{72,1}, \varphi_{66,1}$
	62	0	$197120_3 = \chi_{73,0}, \varphi_{67,0}$
	$63 = \overline{62}$	0	$197120_4 = \chi_{73,1}, \varphi_{67,1}$
	64	0	$277200_1 = \chi_{75,0}, \varphi_{68,0}$
	$65 = \overline{64}$	0	$277200_2 = \chi_{75,1}, \varphi_{68,1}$
	66	0	$315392_1 = \chi_{76,0}, \varphi_{69,0}$
	$67 = \overline{66}$	0	$315392_2 = \chi_{76,1}, \varphi_{69,1}$
$3.G:$	68	1	7×6
	69	1	7×6
	70	1	5×3
	71	0	$2730_1 = \chi_{80+}, \varphi_{73+}$
	72	0	$6006_1 = \chi_{85+}, \varphi_{77+}$
	73	0	$10206_1 = \chi_{87+}, \varphi_{79+}$
	$74 = \overline{73}$	0	$10206_2 = \chi_{88+}, \varphi_{80+}$
	75	0	$13440_1 = \chi_{89+}, \varphi_{81+}$
	76	0	$46200_1 = \chi_{92+}, \varphi_{83+}$
	77	0	$48048_1 = \chi_{93+}, \varphi_{84+}$
	78	0	$54054_3 = \chi_{94+}, \varphi_{85+}$
	79	0	$103950_1 = \chi_{97+}, \varphi_{88+}$
	80	0	$120120_2 = \chi_{98+}, \varphi_{89+}$

	blocks	defect	matrix
	81	0	$150150_1 = \chi_{100+}, \varphi_{92+}$
	82	0	$150150_2 = \chi_{101+}, \varphi_{93+}$
	83	0	$216216_1 = \chi_{104+}, \varphi_{95+}$
	84	0	$266112_1 = \chi_{105+}, \varphi_{98+}$
	85	0	$270270_1 = \chi_{106+}, \varphi_{99+}$
	86	0	$279552_1 = \chi_{107+}, \varphi_{100+}$
	87	0	$360360_1 = \chi_{109+}, \varphi_{101+}$
	88	0	$450450_1 = \chi_{113+}, \varphi_{102+}$
	89	0	$663390_1 = \chi_{114+}, \varphi_{103+}$
$6.G:$	90	1	7×6
	91	1	5×3
	92	0	$1848_1 = \chi_{117+}, \varphi_{106+}$
	93	0	$8736_1 = \chi_{118+}, \varphi_{107+}$
	94	0	$8736_2 = \chi_{119+}, \varphi_{108+}$
	95	0	$22176_1 = \chi_{121+}, \varphi_{110+}$
	$96 = \overline{95}$	0	$22176_2 = \chi_{122+}, \varphi_{111+}$
	97	0	$24024_1 = \chi_{123+}, \varphi_{112+}$
	98	0	$24024_2 = \chi_{124+}, \varphi_{113+}$
	99	0	$24024_3 = \chi_{125+}, \varphi_{114+}$
	100	0	$46200_2 = \chi_{126+}, \varphi_{116+}$
	101	0	$122472_2 = \chi_{132+}, \varphi_{120+}$
	$102 = \overline{101}$	0	$122472_3 = \chi_{133+}, \varphi_{121+}$
	103	0	$279552_2 = \chi_{137+}, \varphi_{124+}$
	104	0	$288288_2 = \chi_{138+}, \varphi_{125+}$
	105	0	$288288_3 = \chi_{139+}, \varphi_{126+}$
	106	0	$360360_2 = \chi_{141+}, \varphi_{127+}$
	107	0	$600600_1 = \chi_{142+}, \varphi_{128+}$
	108	0	$873600_1 = \chi_{143+}, \varphi_{129+}$

Block 1:	$\varphi_{1,0}$	$\varphi_{11,1}$	$\varphi_{13,1}$	$\varphi_{23,0}$	$\varphi_{34,1}$	$\varphi_{35,1}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.
$10725_2 = \chi_{10,1}$	.	1	.	.	.	.
$14300_2 = \chi_{12,1}$	1	.	1	.	.	.
$146432_2 = \chi_{35,1}$	.	1	.	.	1	.
$168960_2 = \chi_{37,1}$	.	.	1	.	.	1
$189540_2 = \chi_{38,1}$	.	.	.	1	1	.
$208494_2 = \chi_{41,1}$	.	.	.	1	.	1

$\varphi_{1,0} = 1_1$
$\varphi_{11,1} = 10725_2$
$\varphi_{13,1} = 14299_2$
$\varphi_{23,0} = 53833_1$
$\varphi_{34,1} = 135707_2$
$\varphi_{35,1} = 154661_2$

Block 2:	$\varphi_{1,1}$	$\varphi_{11,0}$	$\varphi_{13,0}$	$\varphi_{23,1}$	$\varphi_{34,0}$	$\varphi_{35,0}$
$1_2 = \chi_{1,1}$	1	.	.	.	.	.
$10725_1 = \chi_{10,0}$	.	1	.	.	.	.
$14300_1 = \chi_{12,0}$	1	.	1	.	.	.
$146432_1 = \chi_{35,0}$	.	1	.	.	1	.
$168960_1 = \chi_{37,0}$	.	.	1	.	.	1
$189540_1 = \chi_{38,0}$	.	.	.	1	1	.
$208494_1 = \chi_{41,0}$	.	.	.	1	.	1

$$\begin{aligned}\varphi_{1,1} &= 1_2\\ \varphi_{11,0} &= 10725_1\\ \varphi_{13,0} &= 14299_1\\ \varphi_{23,1} &= 53833_2\\ \varphi_{34,0} &= 135707_1\\ \varphi_{35,0} &= 154661_1\end{aligned}$$

Block 3:	$\varphi_{2,0}$	$\varphi_{4,1}$	$\varphi_{9,1}$	$\varphi_{10,1}$	$\varphi_{27,1}$	$\varphi_{37,1}$
$143_1 = \chi_{2,0}$	1	.	.	.	.	.
$780_2 = \chi_{4,1}$	.	1	.	.	.	.
$5940_2 = \chi_{9,1}$	1	.	1	.	.	.
$15795_2 = \chi_{15,1}$	.	.	1	1	.	.
$66560_2 = \chi_{27,1}$	.	1	.	.	1	.
$193050_2 = \chi_{39,1}$	.	.	.	1	.	1
$248832_2 = \chi_{43,1}$	.	.	.	.	1	1

$$\begin{aligned}\varphi_{2,0} &= 143_1\\ \varphi_{4,1} &= 780_2\\ \varphi_{9,1} &= 5797_2\\ \varphi_{10,1} &= 9998_2\\ \varphi_{27,1} &= 65780_2\\ \varphi_{37,1} &= 183052_2\end{aligned}$$

Block 4:	$\varphi_{2,1}$	$\varphi_{4,0}$	$\varphi_{9,0}$	$\varphi_{10,0}$	$\varphi_{27,0}$	$\varphi_{37,0}$
$143_2 = \chi_{2,1}$	1	.	.	.	.	.
$780_1 = \chi_{4,0}$	.	1	.	.	.	.
$5940_1 = \chi_{9,0}$	1	.	1	.	.	.
$15795_1 = \chi_{15,0}$	.	.	1	1	.	.
$66560_1 = \chi_{27,0}$	.	1	.	.	1	.
$193050_1 = \chi_{39,0}$	.	.	.	1	.	1
$248832_1 = \chi_{43,0}$	.	.	.	.	1	1

$$\begin{aligned}\varphi_{2,1} &= 143_2\\ \varphi_{4,0} &= 780_1\\ \varphi_{9,0} &= 5797_1\\ \varphi_{10,0} &= 9998_1\\ \varphi_{27,0} &= 65780_1\\ \varphi_{37,0} &= 183052_1\end{aligned}$$

Block 9:	$\varphi_{6,0}$	$\varphi_{6,1}$	$\varphi_{16,0}$	$\varphi_{16,1}$	$\varphi_{26,0}$	$\varphi_{26,1}$
$3432_1 = \chi_{6,0}$	1	.	.	.	.	.
$3432_2 = \chi_{6,1}$	.	1	.	.	.	.
$18954_1 = \chi_{16,0}$	.	1	1	.	.	.
$18954_2 = \chi_{16,1}$	1	.	.	1	.	.
$128700_1 = \chi_{25+}$	.	.	.	.	1	1
$79872_1 = \chi_{29,0}$	.	.	1	.	1	.
$79872_2 = \chi_{29,1}$	.	.	.	1	.	1

$$\begin{aligned}\varphi_{6,0} &= 3432_1\\ \varphi_{6,1} &= 3432_2\\ \varphi_{16,0} &= 15522_1\\ \varphi_{16,1} &= 15522_2\\ \varphi_{26,0} &= 64350_1\\ \varphi_{26,1} &= 64350_2\end{aligned}$$

Block 39:	$\varphi_{40,0}$	$\varphi_{40,1}$	$\varphi_{52,0}$	$\varphi_{52,1}$	$\varphi_{62,0}$	$\varphi_{62,1}$
$220_1 = \chi_{44,0}$	1	.	.	.	.	.
$220_2 = \chi_{44,1}$	.	1	.	.	.	.
$70200_2 = \chi_{56+}$	.	.	1	1	.	.
$102400_1 = \chi_{67,0}$	1	.	.	.	.	1
$102400_2 = \chi_{67,1}$	.	1	.	.	1	.
$137280_1 = \chi_{69,0}$	.	.	1	.	1	.
$137280_2 = \chi_{69,1}$	.	.	.	1	.	1

$\varphi_{40,0} = 220_1$
$\varphi_{40,1} = 220_2$
$\varphi_{52,0} = 35100_1$
$\varphi_{52,1} = 35100_2$
$\varphi_{62,0} = 102180_1$
$\varphi_{62,1} = 102180_2$

Block 41:	φ_{43+}	φ_{50+}	φ_{57+}
$1144_1 = \chi_{47+}$	1	.	.
$70200_1 = \chi_{54+}$	1	1	.
$159744_1 = \chi_{62+}$	.	.	1
$228800_1 = \chi_{74,0}$	.	1	1
$228800_2 = \chi_{74,1}$	.	1	1

$\varphi_{43+} = 1144_1$
$\varphi_{50+} = 69056_1$
$\varphi_{57+} = 159744_1$

Block 68:	φ_{70+}	φ_{75+}	φ_{86+}	φ_{87+}	φ_{90+}	φ_{97+}
$132_1 = \chi_{77+}$	1	.	.	.	.	.
$4290_1 = \chi_{82+}$	.	1	.	.	.	.
$61776_1 = \chi_{95+}$	.	1	1	.	.	.
$85800_1 = \chi_{96+}$	1	.	.	1	.	.
$208494_3 = \chi_{103+}$	.	.	.	1	1	.
$320760_1 = \chi_{108+}$	.	.	1	.	.	1
$386100_1 = \chi_{111+}$	.	.	.	.	1	1

$\varphi_{70+} = 132_1$
$\varphi_{75+} = 4290_1$
$\varphi_{86+} = 57486_1$
$\varphi_{87+} = 85668_1$
$\varphi_{90+} = 122826_1$
$\varphi_{97+} = 263274_1$

Block 69:	φ_{71+}	φ_{74+}	φ_{78+}	φ_{91+}	φ_{94+}	φ_{96+}
$156_1 = \chi_{78+}$	1	.	.	.	.	.
$3432_3 = \chi_{81+}$	.	1	.	.	.	.
$8580_1 = \chi_{86+}$	1	.	1	.	.	.
$128700_2 = \chi_{99+}$	.	1	.	1	.	.
$171600_1 = \chi_{102+}$	.	.	1	.	1	.
$379080_1 = \chi_{110+}$	.	.	.	1	.	1
$416988_1 = \chi_{112+}$	.	.	.	.	1	1

$\varphi_{71+} = 156_1$
$\varphi_{74+} = 3432_3$
$\varphi_{78+} = 8424_1$
$\varphi_{91+} = 125268_1$
$\varphi_{94+} = 163176_1$
$\varphi_{96+} = 253812_1$

Block 70:	φ_{72+}	φ_{76+}	φ_{82+}
$858_1 = \chi_{79+}$	1	.	.
$5850_1 = \chi_{83+}$	.	1	.
$5850_2 = \chi_{84+}$	.	1	.
$37908_1 = \chi_{90+}$	1	.	1
$42900_1 = \chi_{91+}$	.	1	1

$\varphi_{72+} = 858_1$
$\varphi_{76+} = 5850_1$
$\varphi_{82+} = 37050_1$

Block 90:	φ_{104+}	φ_{109+}	φ_{115+}	φ_{117+}	φ_{122+}	φ_{123+}
$24_1 = \chi_{115+}$	1	.	.	.	.	.
$17160_1 = \chi_{120+}$	.	1	.	.	.	.
$54912_1 = \chi_{127+}$	1	.	.	1	.	.
$54912_2 = \chi_{128+}$	.	1	1	.	.	.
$211200_1 = \chi_{135+}$	.	.	1	.	.	1
$224640_1 = \chi_{136+}$	.	.	.	1	1	.
$343200_1 = \chi_{140+}$	.	.	.	.	1	1

$\varphi_{104+} = 24_1$
$\varphi_{109+} = 17160_1$
$\varphi_{115+} = 37752_1$
$\varphi_{117+} = 54888_1$
$\varphi_{122+} = 169752_1$
$\varphi_{123+} = 173448_1$

Block 91:	φ_{105+}	φ_{118+}	φ_{119+}
$1560_1 = \chi_{116+}$	1	.	.
$70200_3 = \chi_{129+}$	.	1	.
$70200_4 = \chi_{130+}$	.	1	.
$85800_2 = \chi_{131+}$	1	.	1
$154440_1 = \chi_{134+}$	.	1	1

$\varphi_{105+} = 1560_1$
$\varphi_{118+} = 70200_1$
$\varphi_{119+} = 84240_1$