Suz (mod 7)

	blocks	defect	matrix
$G:$	1	1	7×6
	2	1	7×6
	3	0	$364_1 = \chi_3, \varphi_3$
	4	0	$1001_1 = \chi_5, \varphi_5$
	5	1	5×3
	6	0	$5005_1 = \chi_7, \varphi_7$
	$7 = \overline{6}$	0	$5005_2 = \chi_8, \varphi_8$
	8	0	$12012_1 = \chi_{11}, \varphi_{12}$
	9	0	$15015_1 = \chi_{13}, \varphi_{14}$
	10	0	$15015_2 = \chi_{14}, \varphi_{15}$
	11	0	$25025_1 = \chi_{17}, \varphi_{17}$
	12	0	$25025_2 = \chi_{18}, \varphi_{18}$
	$13 = \overline{12}$	0	$25025_3 = \chi_{19}, \varphi_{19}$
	14	0	$40040_1 = \chi_{20}, \varphi_{20}$
	15	0	$50050_1 = \chi_{21}, \varphi_{21}$
	$16 = \overline{15}$	0	$50050_2 = \chi_{22}, \varphi_{22}$
	17	0	$54054_1 = \chi_{23}, \varphi_{24}$
	18	0	$64064_1 = \chi_{24}, \varphi_{25}$
	19	0	$75075_1 = \chi_{28}, \varphi_{28}$
	20	0	$88452_1 = \chi_{30}, \varphi_{29}$
	21	0	$93555_1 = \chi_{31}, \varphi_{30}$
	22	0	$93555_2 = \chi_{32}, \varphi_{31}$
	23	0	$100100_1 = \chi_{33}, \varphi_{32}$
	24	0	$133056_1 = \chi_{34}, \varphi_{33}$
	25	0	$163800_1 = \chi_{36}, \varphi_{36}$
	26	0	$197120_1 = \chi_{40}, \varphi_{38}$
	27	0	$243243_1 = \chi_{42}, \varphi_{39}$
$2.G:$	28	1	5×3
	29	0	$364_2 = \chi_{45}, \varphi_{41}$
	$30 = \overline{29}$	0	$364_3 = \chi_{46}, \varphi_{42}$
	31	1	7×6
	32	0	$4928_1 = \chi_{49}, \varphi_{45}$
	33	0	$16016_1 = \chi_{50}, \varphi_{46}$
	$34 = \overline{33}$	0	$16016_2 = \chi_{51}, \varphi_{47}$
	35	0	$20020_1 = \chi_{52}, \varphi_{48}$
	36	0	$20020_2 = \chi_{53}, \varphi_{49}$
	37	0	$60060_1 = \chi_{58}, \varphi_{53}$
	38	0	$60060_2 = \chi_{59}, \varphi_{54}$
	39	0	$61236_1 = \chi_{60}, \varphi_{55}$
	40	0	$61236_2 = \chi_{61}, \varphi_{56}$

	blocks	defect	matrix
	41	0	$80080_1 = \chi_{64}, \varphi_{59}$
	42	0	$80080_2 = \chi_{65}, \varphi_{60}$
	43	0	$100100_2 = \chi_{66}, \varphi_{61}$
	44	0	$128128_1 = \chi_{68}, \varphi_{63}$
	45	0	$144144_1 = \chi_{70}, \varphi_{64}$
	46	0	$144144_2 = \chi_{71}, \varphi_{65}$
	47	0	$192192_1 = \chi_{72}, \varphi_{66}$
	48	0	$197120_2 = \chi_{73}, \varphi_{67}$
	49	0	$277200_1 = \chi_{75}, \varphi_{68}$
	50	0	$315392_1 = \chi_{76}, \varphi_{69}$
$3.G:$	51	1	7×6
	$52 = 51*$		
	53	1	7×6
	$54 = 53*$		
	55	1	5×3
	$56 = 55*$		
	57	0	$1365_1 = \chi_{80}, \varphi_{73}$
	$58 = 57*$		
	59	0	$3003_1 = \chi_{85}, \varphi_{77}$
	$60 = 59*$		
	61	0	$5103_1 = \chi_{87}, \varphi_{79}$
	$62 = 61*$		
	63	0	$5103_3 = \chi_{88}, \varphi_{80}$
	$64 = 63*$		
	65	0	$6720_1 = \chi_{89}, \varphi_{81}$
	$66 = 65*$		
	67	0	$23100_1 = \chi_{92}, \varphi_{83}$
	$68 = 67*$		
	69	0	$24024_1 = \chi_{93}, \varphi_{84}$
	$70 = 69*$		
	71	0	$27027_1 = \chi_{94}, \varphi_{85}$
	$72 = 71*$		
	73	0	$51975_1 = \chi_{97}, \varphi_{88}$
	$74 = 73*$		
	75	0	$60060_3 = \chi_{98}, \varphi_{89}$
	$76 = 75*$		
	77	0	$75075_2 = \chi_{100}, \varphi_{92}$
	$78 = 77*$		
	79	0	$75075_4 = \chi_{101}, \varphi_{93}$
	$80 = 79*$		

	blocks	defect	matrix
	81	0	$108108_1 = \chi_{104}, \varphi_{95}$
	$82 = 81*$		
	83	0	$133056_2 = \chi_{105}, \varphi_{98}$
	$84 = 83*$		
	85	0	$135135_1 = \chi_{106}, \varphi_{99}$
	$86 = 85*$		
	87	0	$139776_1 = \chi_{107}, \varphi_{100}$
	$88 = 87*$		
	89	0	$180180_1 = \chi_{109}, \varphi_{101}$
	$90 = 89*$		
	91	0	$225225_1 = \chi_{113}, \varphi_{102}$
	$92 = 91*$		
	93	0	$331695_1 = \chi_{114}, \varphi_{103}$
	$94 = 93*$		
$6.G:$	95	1	7×6
	$96 = 95*$		
	97	1	5×3
	$98 = 97*$		
	99	0	$924_1 = \chi_{117}, \varphi_{106}$
	$100 = 99*$		
	101	0	$4368_1 = \chi_{118}, \varphi_{107}$
	$102 = 101*$		
	103	0	$4368_3 = \chi_{119}, \varphi_{108}$
	$104 = 103*$		
	105	0	$11088_1 = \chi_{121}, \varphi_{110}$
	$106 = 105*$		
	$107 = \overline{106}$	0	$11088_3 = \chi_{122}, \varphi_{111}$
	$108 = 107*$		
	109	0	$12012_2 = \chi_{123}, \varphi_{112}$
	$110 = 109*$		
	111	0	$12012_4 = \chi_{124}, \varphi_{113}$
	$112 = 111*$		
	113	0	$12012_6 = \chi_{125}, \varphi_{114}$
	$114 = 113*$		
	115	0	$23100_3 = \chi_{126}, \varphi_{116}$
	$116 = 115*$		
	117	0	$61236_3 = \chi_{132}, \varphi_{120}$
	$118 = 117*$		
	119	0	$61236_5 = \chi_{133}, \varphi_{121}$
	$120 = 119*$		

	blocks	defect	matrix
	121	0	$139776_3 = \chi_{137}, \varphi_{124}$
	$122 = 121*$		
	123	0	$144144_3 = \chi_{138}, \varphi_{125}$
	$124 = 123*$		
	125	0	$144144_5 = \chi_{139}, \varphi_{126}$
	$126 = 125*$		
	127	0	$180180_3 = \chi_{141}, \varphi_{127}$
	$128 = 127*$		
	129	0	$300300_1 = \chi_{142}, \varphi_{128}$
	$130 = 129*$		
	131	0	$436800_1 = \chi_{143}, \varphi_{129}$
	$132 = 131*$		

Block 1:	φ_1	φ_{11}	φ_{13}	φ_{23}	φ_{34}	φ_{35}
$1_1 = \chi_1$	1	.	.	.	.	.
$10725_1 = \chi_{10}$	.	1	.	.	.	.
$14300_1 = \chi_{12}$	1	.	1	.	.	.
$146432_1 = \chi_{35}$	.	1	.	.	1	.
$168960_1 = \chi_{37}$	.	.	1	.	.	1
$189540_1 = \chi_{38}$	.	.	.	1	1	.
$208494_1 = \chi_{41}$	.	.	.	1	.	1

$\varphi_1 = 1_1$
$\varphi_{11} = 10725_1$
$\varphi_{13} = 14299_1$
$\varphi_{23} = 53833_1$
$\varphi_{34} = 135707_1$
$\varphi_{35} = 154661_1$

Block 2:	φ_2	φ_4	φ_9	φ_{10}	φ_{27}	φ_{37}
$143_1 = \chi_2$	1	.	.	.	.	.
$780_1 = \chi_4$	.	1	.	.	.	.
$5940_1 = \chi_9$	1	.	1	.	.	.
$15795_1 = \chi_{15}$	.	.	1	1	.	.
$66560_1 = \chi_{27}$	.	1	.	.	1	.
$193050_1 = \chi_{39}$	.	.	.	1	.	1
$248832_1 = \chi_{43}$	.	.	.	.	1	1

$\varphi_2 = 143_1$
$\varphi_4 = 780_1$
$\varphi_9 = 5797_1$
$\varphi_{10} = 9998_1$
$\varphi_{27} = 65780_1$
$\varphi_{37} = 183052_1$

Block 5:	φ_6	φ_{16}	φ_{26}
$3432_1 = \chi_6$	1	.	.
$18954_1 = \chi_{16}$	1	1	.
$64350_1 = \chi_{25}$	.	.	1
$64350_2 = \chi_{26}$	.	.	1
$79872_1 = \chi_{29}$	.	1	1

$\varphi_6 = 3432_1$
$\varphi_{16} = 15522_1$
$\varphi_{26} = 64350_1$

Block 28:	φ_{40}	φ_{52}	φ_{62}
$220_1 = \chi_{44}$	1	.	.
$35100_3 = \chi_{56}$	.	1	.
$35100_4 = \chi_{57}$	.	1	.
$102400_1 = \chi_{67}$	1	.	1
$137280_1 = \chi_{69}$	.	1	1

$\varphi_{40} = 220_1$
$\varphi_{52} = 35100_1$
$\varphi_{62} = 102180_1$

Block 31:	φ_{43}	φ_{44}	φ_{50}	φ_{51}	φ_{57}	φ_{58}
$572_1 = \chi_{47}$	1	.	.	.	.	.
$572_2 = \chi_{48}$	.	1	.	.	.	.
$35100_1 = \chi_{54}$	1	.	1	.	.	.
$35100_2 = \chi_{55}$	.	1	.	1	.	.
$79872_2 = \chi_{62}$	.	.	.	.	1	.
$79872_3 = \chi_{63}$	.	.	.	.	.	1
$228800_1 = \chi_{74}$	.	.	1	1	1	1

$\varphi_{43} = 572_1$
$\varphi_{44} = 572_2$
$\varphi_{50} = 34528_1$
$\varphi_{51} = 34528_2$
$\varphi_{57} = 79872_1$
$\varphi_{58} = 79872_2$

Blocks 51, 52:	φ_{70}	φ_{75}	φ_{86}	φ_{87}	φ_{90}	φ_{97}
$66_1 = \chi_{77}$	1	.	.	.	.	.
$2145_1 = \chi_{82}$	.	1	.	.	.	.
$30888_1 = \chi_{95}$	.	1	1	.	.	.
$42900_1 = \chi_{96}$	1	.	.	1	.	.
$104247_1 = \chi_{103}$	.	.	.	1	1	.
$160380_1 = \chi_{108}$	.	.	1	.	.	1
$193050_2 = \chi_{111}$	.	.	.	.	1	1

$\varphi_{70} = 66_1$
$\varphi_{75} = 2145_1$
$\varphi_{86} = 28743_1$
$\varphi_{87} = 42834_1$
$\varphi_{90} = 61413_1$
$\varphi_{97} = 131637_1$

Blocks 53, 54:	φ_{71}	φ_{74}	φ_{78}	φ_{91}	φ_{94}	φ_{96}
$78_1 = \chi_{78}$	1	.	.	.	.	.
$1716_1 = \chi_{81}$	.	1	.	.	.	.
$4290_1 = \chi_{86}$	1	.	1	.	.	.
$64350_3 = \chi_{99}$	.	1	.	1	.	.
$85800_1 = \chi_{102}$	.	.	1	.	1	.
$189540_2 = \chi_{110}$	.	.	.	1	.	1
$208494_2 = \chi_{112}$	.	.	.	.	1	1

$\varphi_{71} = 78_1$
$\varphi_{74} = 1716_1$
$\varphi_{78} = 4212_1$
$\varphi_{91} = 62634_1$
$\varphi_{94} = 81588_1$
$\varphi_{96} = 126906_1$

Blocks 55, 56:	φ_{72}	φ_{76}	φ_{82}
$429_1 = \chi_{79}$	1	.	.
$2925_1 = \chi_{83}$	.	1	.
$2925_3 = \chi_{84}$	.	1	.
$18954_2 = \chi_{90}$	1	.	1
$21450_1 = \chi_{91}$	.	1	1

$\varphi_{72} = 429_1$
$\varphi_{76} = 2925_1$
$\varphi_{82} = 18525_1$

Blocks 95, 96:	φ_{104}	φ_{109}	φ_{115}	φ_{117}	φ_{122}	φ_{123}
$12_1 = \chi_{115}$	1	.	.	.	.	.
$8580_1 = \chi_{120}$	.	1	.	.	.	.
$27456_1 = \chi_{127}$	1	.	.	1	.	.
$27456_3 = \chi_{128}$	.	1	1	.	.	.
$105600_1 = \chi_{135}$	.	.	1	.	.	1
$112320_1 = \chi_{136}$	.	.	.	1	1	.
$171600_1 = \chi_{140}$	.	.	.	.	1	1

$\varphi_{104} = 12_1$
$\varphi_{109} = 8580_1$
$\varphi_{115} = 18876_1$
$\varphi_{117} = 27444_1$
$\varphi_{122} = 84876_1$
$\varphi_{123} = 86724_1$

Blocks 97, 98:	φ_{105}	φ_{118}	φ_{119}
$780_2 = \chi_{116}$	1	.	.
$35100_5 = \chi_{129}$	.	1	.
$35100_7 = \chi_{130}$	.	1	.
$42900_3 = \chi_{131}$	1	.	1
$77220_1 = \chi_{134}$	.	1	1

$\varphi_{105} = 780_2$
$\varphi_{118} = 35100_2$
$\varphi_{119} = 42120_1$