

Suz.2 (mod 5)

	blocks	defect	matrix
$G :$	1	2	16×12
	2	2	16×12
	3	1	5×4
	4	1	4×2
	5	1	5×4
	6	1	5×4
	7	0	$10725_1 = \chi_{10,0}, \varphi_{10,0}$
	8	0	$10725_2 = \chi_{10,1}, \varphi_{10,1}$
	9	0	$14300_1 = \chi_{12,0}, \varphi_{12,0}$
	10	0	$14300_2 = \chi_{12,1}, \varphi_{12,1}$
	11	0	$25025_1 = \chi_{17,0}, \varphi_{16,0}$
	12	0	$25025_2 = \chi_{17,1}, \varphi_{16,1}$
	13	0	$50050_1 = \chi_{18+}, \varphi_{17+}$
	14	0	$100100_1 = \chi_{21+}, \varphi_{21+}$
	15	0	$128700_1 = \chi_{25+}, \varphi_{24+}$
	16	0	$75075_1 = \chi_{28,0}, \varphi_{26,0}$
	17	0	$75075_2 = \chi_{28,1}, \varphi_{26,1}$
	18	0	$100100_2 = \chi_{33,0}, \varphi_{31,0}$
	19	0	$100100_3 = \chi_{33,1}, \varphi_{31,1}$
	20	0	$163800_1 = \chi_{36,0}, \varphi_{34,0}$
	21	0	$163800_2 = \chi_{36,1}, \varphi_{34,1}$
	22	0	$193050_1 = \chi_{39,0}, \varphi_{35,0}$
	23	0	$193050_2 = \chi_{39,1}, \varphi_{35,1}$
$2.G :$	24	1	5×4
	$25 = \overline{24}$	1	5×4
	26	2	14×6
	27	1	5×4
	28	0	$70200_1 = \chi_{54+}, \varphi_{47+}$
	29	0	$70200_2 = \chi_{56+}, \varphi_{49+}$
	30	0	$100100_4 = \chi_{66,0}, \varphi_{57,0}$
	$31 = \overline{30}$	0	$100100_5 = \chi_{66,1}, \varphi_{57,1}$
	32	0	$102400_1 = \chi_{67,0}, \varphi_{58,0}$
	$33 = \overline{32}$	0	$102400_2 = \chi_{67,1}, \varphi_{58,1}$
	34	0	$228800_1 = \chi_{74,0}, \varphi_{60,0}$
	$35 = \overline{34}$	0	$228800_2 = \chi_{74,1}, \varphi_{60,1}$
	36	0	$277200_1 = \chi_{75,0}, \varphi_{61,0}$
	$37 = \overline{36}$	0	$277200_2 = \chi_{75,1}, \varphi_{61,1}$
$3.G :$	38	2	16×12
	39	1	5×4
	40	1	5×4

	blocks	defect	matrix
	41	0	$5850_1 = \chi_{83+}, \varphi_{68+}$
	$42 = \overline{41}$	0	$5850_2 = \chi_{84+}, \varphi_{69+}$
	43	0	$42900_1 = \chi_{91+}, \varphi_{76+}$
	44	0	$46200_1 = \chi_{92+}, \varphi_{77+}$
	45	0	$85800_1 = \chi_{96+}, \varphi_{80+}$
	46	0	$103950_1 = \chi_{97+}, \varphi_{81+}$
	47	0	$128700_2 = \chi_{99+}, \varphi_{83+}$
	48	0	$150150_1 = \chi_{100+}, \varphi_{84+}$
	49	0	$150150_2 = \chi_{101+}, \varphi_{85+}$
	50	0	$171600_1 = \chi_{102+}, \varphi_{87+}$
	51	0	$386100_1 = \chi_{111+}, \varphi_{92+}$
	52	0	$450450_1 = \chi_{113+}, \varphi_{93+}$
6.G :	53	2	16×12
	54	1	5×4
	55	0	$46200_2 = \chi_{126+}, \varphi_{104+}$
	56	0	$70200_3 = \chi_{129+}, \varphi_{107+}$
	$57 = \overline{56}$	0	$70200_4 = \chi_{130+}, \varphi_{108+}$
	58	0	$85800_2 = \chi_{131+}, \varphi_{109+}$
	59	0	$211200_1 = \chi_{135+}, \varphi_{113+}$
	60	0	$343200_1 = \chi_{140+}, \varphi_{115+}$
	61	0	$600600_1 = \chi_{142+}, \varphi_{116+}$
	62	0	$873600_1 = \chi_{143+}, \varphi_{117+}$

Block 1:	$\varphi_{1,0}$	$\varphi_{2,0}$	$\varphi_{3,0}$	$\varphi_{5,1}$	$\varphi_{6,1}$	$\varphi_{11,0}$	$\varphi_{14,0}$	$\varphi_{15,1}$	$\varphi_{20,1}$	$\varphi_{27,1}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.
$143_1 = \chi_{2,0}$	.	1	.	.	.	.	.	.	.	.
$364_1 = \chi_{3,0}$	1	.	1	.	.	.	.	.	.	.
$1001_2 = \chi_{5,1}$	.	.	.	1	.	.	.	.	.	.
$3432_2 = \chi_{6,1}$	.	1	.	.	1	.	.	.	.	.
$12012_1 = \chi_{11,0}$	.	1	.	.	.	1	.	.	.	.
$18954_2 = \chi_{16,1}$	1	.	.	.	.	.	.	1	.	.
$54054_2 = \chi_{23,1}$	.	.	1	.	.	1	.	.	1	.
$64064_2 = \chi_{24,1}$	.	.	.	.	1	.	.	1	1	.
$79872_2 = \chi_{29,1}$	.	.	.	1	1	.	.	.	.	1
$88452_2 = \chi_{30,1}$	.	.	.	1	.	1	.	.	.	1
$133056_1 = \chi_{34,0}$	1	1	.	.	.	.	1	.	.	.
$146432_2 = \chi_{35,1}$	1	.	1	.	.	.	.	1	1	.
$208494_2 = \chi_{41,1}$	.	.	.	.	.	.	1	.	.	1
$243243_1 = \chi_{42,0}$	1	.	.	.	.	.	.	.	1	.
$248832_2 = \chi_{43,1}$	.	1	.	.	1	1	.	.	1	1

(Block 1:)	$\varphi_{28,1}$	$\varphi_{32,0}$	
$1_1 = \chi_{1,0}$	.	.	
$143_1 = \chi_{2,0}$	.	.	$\varphi_{1,0} = 1_1$
$364_1 = \chi_{3,0}$	.	.	$\varphi_{2,0} = 143_1$
$1001_2 = \chi_{5,1}$	.	.	$\varphi_{3,0} = 363_1$
$3432_2 = \chi_{6,1}$	.	.	$\varphi_{5,1} = 1001_2$
$12012_1 = \chi_{11,0}$	.	.	$\varphi_{6,1} = 3289_2$
$18954_2 = \chi_{16,1}$	.	.	$\varphi_{11,0} = 11869_1$
$54054_2 = \chi_{23,1}$	.	.	$\varphi_{14,0} = 16785_1$
$64064_2 = \chi_{24,1}$	.	.	$\varphi_{15,1} = 18953_2$
$79872_2 = \chi_{29,1}$	.	.	$\varphi_{20,1} = 41822_2$
$88452_2 = \chi_{30,1}$	.	.	$\varphi_{27,1} = 75582_2$
$133056_1 = \chi_{34,0}$	.	1	$\varphi_{28,1} = 85293_2$
$146432_2 = \chi_{35,1}$	1	.	$\varphi_{32,0} = 116127_1$
$208494_2 = \chi_{41,1}$	.	1	
$243243_1 = \chi_{42,0}$	1	1	
$248832_2 = \chi_{43,1}$	.	1	

Block 2:	$\varphi_{1,1}$	$\varphi_{2,1}$	$\varphi_{3,1}$	$\varphi_{5,0}$	$\varphi_{6,0}$	$\varphi_{11,1}$	$\varphi_{14,1}$	$\varphi_{15,0}$	$\varphi_{20,0}$	$\varphi_{27,0}$
$1_2 = \chi_{1,1}$	1	.	.	.	.	.	.	.	.	.
$143_2 = \chi_{2,1}$	.	1	.	.	.	.	.	.	.	.
$364_2 = \chi_{3,1}$	1	.	1	.	.	.	.	.	.	.
$1001_1 = \chi_{5,0}$	.	.	.	1	.	.	.	.	.	.
$3432_1 = \chi_{6,0}$	.	1	.	.	1	.	.	.	.	.
$12012_2 = \chi_{11,1}$	.	1	.	.	.	1	.	.	.	.
$18954_1 = \chi_{16,0}$	1	.	.	.	.	.	.	1	.	.
$54054_1 = \chi_{23,0}$	.	.	1	.	.	1	.	.	1	.
$64064_1 = \chi_{24,0}$	.	.	.	.	1	.	.	1	1	.
$79872_1 = \chi_{29,0}$	.	.	.	1	1	.	.	.	.	1
$88452_1 = \chi_{30,0}$	.	.	.	1	.	1	.	.	.	1
$133056_2 = \chi_{34,1}$	1	1	.	.	.	.	1	.	.	.
$146432_1 = \chi_{35,0}$	1	.	1	.	.	.	.	1	1	.
$208494_1 = \chi_{41,0}$	.	.	.	.	.	.	1	.	.	1
$243243_2 = \chi_{42,1}$	1	.	.	.	.	.	.	.	1	.
$248832_1 = \chi_{43,0}$	.	1	.	.	1	1	.	.	1	1

(Block 2:)	$\varphi_{28,0}$	$\varphi_{32,1}$	
$1_2 = \chi_{1,1}$	.	.	
$143_2 = \chi_{2,1}$	.	.	$\varphi_{1,1} = 1_2$
$364_2 = \chi_{3,1}$	.	.	$\varphi_{2,1} = 143_2$
$1001_1 = \chi_{5,0}$	.	.	$\varphi_{3,1} = 363_2$
$3432_1 = \chi_{6,0}$	.	.	$\varphi_{5,0} = 1001_1$
$12012_2 = \chi_{11,1}$	.	.	$\varphi_{6,0} = 3289_1$
$18954_1 = \chi_{16,0}$	.	.	$\varphi_{11,1} = 11869_2$
$54054_1 = \chi_{23,0}$	.	.	$\varphi_{14,1} = 16785_2$
$64064_1 = \chi_{24,0}$	.	.	$\varphi_{15,0} = 18953_1$
$79872_1 = \chi_{29,0}$	.	.	$\varphi_{20,0} = 41822_1$
$88452_1 = \chi_{30,0}$	.	.	$\varphi_{27,0} = 75582_1$
$133056_2 = \chi_{34,1}$	.	1	$\varphi_{28,0} = 85293_1$
$146432_1 = \chi_{35,0}$	1	.	$\varphi_{32,1} = 116127_2$
$208494_1 = \chi_{41,0}$	.	1	
$243243_2 = \chi_{42,1}$	1	1	
$248832_1 = \chi_{43,0}$	.	1	

Block 3:	$\varphi_{4,0}$	$\varphi_{4,1}$	$\varphi_{13,0}$	$\varphi_{13,1}$
$780_1 = \chi_{4,0}$	1	.	.	.
$780_2 = \chi_{4,1}$	.	1	.	.
$30030_1 = \chi_{13,+}$	.	.	1	1
$15795_1 = \chi_{15,0}$	1	.	1	.
$15795_2 = \chi_{15,1}$	.	1	.	1

$$\begin{aligned}
\varphi_{4,0} &= 780_1 \\
\varphi_{4,1} &= 780_2 \\
\varphi_{13,0} &= 15015_1 \\
\varphi_{13,1} &= 15015_2
\end{aligned}$$

Block 4:	φ_{7+}	φ_{29+}
$10010_1 = \chi_{7+}$	1	.
$187110_1 = \chi_{31+}$	.	1
$197120_1 = \chi_{40,0}$	1	1
$197120_2 = \chi_{40,1}$	1	1

$$\begin{aligned}
\varphi_{7+} &= 10010_1 \\
\varphi_{29+} &= 187110_1
\end{aligned}$$

Block 5:	$\varphi_{9,0}$	$\varphi_{19,0}$	$\varphi_{23,0}$	$\varphi_{33,0}$
$5940_1 = \chi_{9,0}$	1	.	.	.
$40040_1 = \chi_{20,0}$	.	1	.	.
$66560_1 = \chi_{27,0}$	1	.	1	.
$168960_1 = \chi_{37,0}$	.	1	.	1
$189540_1 = \chi_{38,0}$	.	.	1	1

$$\begin{aligned}
\varphi_{9,0} &= 5940_1 \\
\varphi_{19,0} &= 40040_1 \\
\varphi_{23,0} &= 60620_1 \\
\varphi_{33,0} &= 128920_1
\end{aligned}$$

Block 6:	$\varphi_{9,1}$	$\varphi_{19,1}$	$\varphi_{23,1}$	$\varphi_{33,1}$
$5940_2 = \chi_{9,1}$	1	.	.	.
$40040_2 = \chi_{20,1}$	.	1	.	.
$66560_2 = \chi_{27,1}$	1	.	1	.
$168960_2 = \chi_{37,1}$	.	1	.	1
$189540_2 = \chi_{38,1}$	.	.	1	1

$$\begin{aligned}
\varphi_{9,1} &= 5940_2 \\
\varphi_{19,1} &= 40040_2 \\
\varphi_{23,1} &= 60620_2 \\
\varphi_{33,1} &= 128920_2
\end{aligned}$$

Block 24:	$\varphi_{36,0}$	$\varphi_{45,0}$	$\varphi_{54,0}$	$\varphi_{59,0}$
$220_1 = \chi_{44,0}$	1	.	.	.
$20020_1 = \chi_{52,0}$	.	1	.	.
$80080_1 = \chi_{64,0}$	1	.	1	.
$137280_1 = \chi_{69,0}$	.	1	.	1
$197120_3 = \chi_{73,0}$	.	.	1	1

$$\begin{aligned}
\varphi_{36,0} &= 220_1 \\
\varphi_{45,0} &= 20020_1 \\
\varphi_{54,0} &= 79860_1 \\
\varphi_{59,0} &= 117260_1
\end{aligned}$$

Block 25:	$\varphi_{36,1}$	$\varphi_{45,1}$	$\varphi_{54,1}$	$\varphi_{59,1}$	
$220_2 = \chi_{44,1}$	1	.	.	.	$\varphi_{36,1} = 220_2$
$20020_2 = \chi_{52,1}$	.	1	.	.	$\varphi_{45,1} = 20020_2$
$80080_2 = \chi_{64,1}$	1	.	1	.	$\varphi_{54,1} = 79860_2$
$137280_2 = \chi_{69,1}$	.	1	.	1	$\varphi_{59,1} = 117260_2$
$197120_4 = \chi_{73,1}$	.	.	1	1	

Block 26:	φ_{37+}	φ_{39+}	φ_{41+}	φ_{43+}	φ_{52+}	φ_{55+}	
$728_1 = \chi_{45+}$	1	.	.	.	.	.	
$1144_1 = \chi_{47+}$	.	1	.	.	.	.	
$4928_1 = \chi_{49,0}$	.	1	1	.	.	.	
$4928_2 = \chi_{49,1}$	.	1	1	.	.	.	$\varphi_{37+} = 728_1$
$32032_1 = \chi_{50+}$	1	.	.	1	.	.	$\varphi_{39+} = 1144_1$
$122472_1 = \chi_{60+}$	.	.	.	.	1	.	$\varphi_{41+} = 3784_1$
$159744_1 = \chi_{62+}$	.	.	.	.	.	1	$\varphi_{43+} = 31304_1$
$128128_1 = \chi_{68,0}$	1	1	1	.	1	.	$\varphi_{52+} = 122472_1$
$128128_2 = \chi_{68,1}$	1	1	1	.	1	.	$\varphi_{55+} = 159744_1$
$288288_1 = \chi_{70+}$	.	2	1	.	1	1	
$192192_1 = \chi_{72,0}$	.	1	.	1	.	1	
$192192_2 = \chi_{72,1}$	.	1	.	1	.	1	
$315392_1 = \chi_{76,0}$	1	1	.	1	1	1	
$315392_2 = \chi_{76,1}$	1	1	.	1	1	1	

Block 27:	$\varphi_{46,0}$	$\varphi_{46,1}$	$\varphi_{51,0}$	$\varphi_{51,1}$	
$20020_3 = \chi_{53,0}$	1	.	.	.	$\varphi_{46,0} = 20020_3$
$20020_4 = \chi_{53,1}$	.	1	.	.	$\varphi_{46,1} = 20020_4$
$120120_1 = \chi_{58+}$	.	.	1	1	$\varphi_{51,0} = 60060_1$
$80080_3 = \chi_{65,0}$	1	.	1	.	$\varphi_{51,1} = 60060_2$
$80080_4 = \chi_{65,1}$	.	1	.	1	

Block 38:	φ_{62+}	φ_{63+}	φ_{64+}	φ_{66+}	φ_{70+}	φ_{72+}	φ_{73+}	φ_{75+}	φ_{78+}	φ_{79+}
$132_1 = \chi_{77+}$	1	.	.	.	.	.	.	.	.	.
$156_1 = \chi_{78+}$	.	1	.	.	.	.	.	.	.	.
$858_1 = \chi_{79+}$	1	.	1	.	.	.	.	.	.	.
$3432_3 = \chi_{81+}$	.	.	.	1	.	.	.	.	.	.
$6006_1 = \chi_{85+}$	.	.	.	.	1	.	.	.	.	.
$10206_1 = \chi_{87+}$	.	.	.	.	.	1	.	.	.	.
$10206_2 = \chi_{88+}$	.	.	.	.	.	.	1	.	.	.
$37908_1 = \chi_{90+}$	.	.	.	1	.	.	.	1	.	.
$48048_1 = \chi_{93+}$	1	.	.	.	.	.	.	.	1	.
$54054_3 = \chi_{94+}$	.	1	.	.	.	.	.	.	.	1
$61776_1 = \chi_{95+}$	.	1	1	.	1	1	1	1	.	.
$208494_3 = \chi_{103+}$	.	.	.	1	.	.	.	.	.	1
$216216_1 = \chi_{104+}$	.	.	1	1	1	1	1	1	.	.
$266112_1 = \chi_{105+}$	1	1	1	.	.	1	1	.	1	.
$279552_1 = \chi_{107+}$	.	1	.	.	1	1	1	.	1	1
$416988_1 = \chi_{112+}$	.	.	1	.	.	1	1	.	1	.

(Block 38:)	φ_{86+}	φ_{88+}		
$132_1 = \chi_{77+}$	.	.		
$156_1 = \chi_{78+}$	.	.	$\varphi_{62+} =$	132_1
$858_1 = \chi_{79+}$	.	.	$\varphi_{63+} =$	156_1
$3432_3 = \chi_{81+}$	.	.	$\varphi_{64+} =$	726_1
$6006_1 = \chi_{85+}$	.	.	$\varphi_{66+} =$	3432_1
$10206_1 = \chi_{87+}$	.	.	$\varphi_{70+} =$	6006_1
$10206_2 = \chi_{88+}$	.	.	$\varphi_{72+} =$	10206_1
$37908_1 = \chi_{90+}$	.	.	$\varphi_{73+} =$	10206_2
$48048_1 = \chi_{93+}$	.	.	$\varphi_{75+} =$	34476_1
$54054_3 = \chi_{94+}$	.	.	$\varphi_{78+} =$	47916_1
$61776_1 = \chi_{95+}$	.	.	$\varphi_{79+} =$	53898_1
$208494_3 = \chi_{103+}$	1	.	$\varphi_{86+} =$	151164_1
$216216_1 = \chi_{104+}$	1	.	$\varphi_{88+} =$	196770_1
$266112_1 = \chi_{105+}$	.	1		
$279552_1 = \chi_{107+}$	1	.		
$416988_1 = \chi_{112+}$	1	1		

Block 39:	φ_{65+}	φ_{71+}	φ_{82+}	φ_{89+}	
$2730_1 = \chi_{80+}$	1	.	.	.	$\varphi_{65+} = 2730_1$
$8580_1 = \chi_{86+}$	.	1	.	.	$\varphi_{71+} = 8580_1$
$120120_2 = \chi_{98+}$	1	.	1	.	$\varphi_{82+} = 117390_1$
$270270_1 = \chi_{106+}$	.	1	.	1	$\varphi_{89+} = 261690_1$
$379080_1 = \chi_{110+}$	.	.	1	1	

Block 40:	φ_{67+}	φ_{74+}	φ_{90+}	φ_{91+}	
$4290_1 = \chi_{82+}$	1	.	.	.	$\varphi_{67+} = 4290_1$
$13440_1 = \chi_{89+}$	.	1	.	.	$\varphi_{74+} = 13440_1$
$320760_1 = \chi_{108+}$	1	.	1	.	$\varphi_{90+} = 316470_1$
$360360_1 = \chi_{109+}$	.	1	.	1	$\varphi_{91+} = 346920_1$
$663390_1 = \chi_{114+}$	.	.	1	1	

Block 53:	φ_{94+}	φ_{96+}	φ_{97+}	φ_{98+}	φ_{99+}	φ_{101+}	φ_{102+}	φ_{103+}	φ_{105+}
$24_1 = \chi_{115+}$	1	.	.	.	.	.	.	.	.
$1848_1 = \chi_{117+}$	.	1	.	.	.	.	.	.	.
$8736_1 = \chi_{118+}$	1	.	1	.	.	.	.	.	.
$8736_2 = \chi_{119+}$	1	.	.	1	.	.	.	.	.
$22176_1 = \chi_{121+}$	1	.	.	.	.	1	.	.	.
$22176_2 = \chi_{122+}$	1	.	.	.	.	.	1	.	.
$24024_1 = \chi_{123+}$	.	.	.	.	.	.	.	1	.
$24024_2 = \chi_{124+}$	.	.	1	.	1	.	.	.	.
$24024_3 = \chi_{125+}$	.	.	.	1	1	.	.	.	.
$54912_1 = \chi_{127+}$	.	1	.	.	.	.	.	.	1
$54912_2 = \chi_{128+}$	.	1	.	.	.	.	.	.	.
$122472_2 = \chi_{132+}$	.	.	.	.	.	1	.	.	.
$122472_3 = \chi_{133+}$	.	.	.	.	.	.	1	.	.
$279552_2 = \chi_{137+}$	1	1	1	1	1	1	1	.	.
$288288_2 = \chi_{138+}$	.	1	.	1	.	.	.	1	.
$288288_3 = \chi_{139+}$	.	1	1	.	.	.	.	1	1

(Block 53:)	φ_{106+}	φ_{110+}	φ_{111+}	
$24_1 = \chi_{115+}$	.	.	.	$\varphi_{94+} = 24_1$
$1848_1 = \chi_{117+}$	.	.	.	$\varphi_{96+} = 1848_1$
$8736_1 = \chi_{118+}$	.	.	.	$\varphi_{97+} = 8712_1$
$8736_2 = \chi_{119+}$	.	.	.	$\varphi_{98+} = 8712_2$
$22176_1 = \chi_{121+}$	.	.	.	$\varphi_{99+} = 15312_1$
$22176_2 = \chi_{122+}$	.	.	.	$\varphi_{101+} = 22152_1$
$24024_1 = \chi_{123+}$	.	.	.	$\varphi_{102+} = 22152_2$
$24024_2 = \chi_{124+}$	.	.	.	$\varphi_{103+} = 24024_1$
$24024_3 = \chi_{125+}$	.	.	.	$\varphi_{105+} = 53064_1$
$54912_1 = \chi_{127+}$	.	.	.	$\varphi_{106+} = 53064_2$
$54912_2 = \chi_{128+}$	1	.	.	$\varphi_{110+} = 100320_1$
$122472_2 = \chi_{132+}$	.	1	.	$\varphi_{111+} = 100320_2$
$122472_3 = \chi_{133+}$	.	.	1	
$279552_2 = \chi_{137+}$	.	1	1	
$288288_2 = \chi_{138+}$	1	1	1	
$288288_3 = \chi_{139+}$	.	1	1	

Block 54:	φ_{95+}	φ_{100+}	φ_{112+}	φ_{114+}	
$1560_1 = \chi_{116+}$	1	.	.	.	$\varphi_{95+} = 1560_1$
$17160_1 = \chi_{120+}$	.	1	.	.	$\varphi_{100+} = 17160_1$
$154440_1 = \chi_{134+}$	.	1	1	.	$\varphi_{112+} = 137280_1$
$224640_1 = \chi_{136+}$	1	.	.	1	$\varphi_{114+} = 223080_1$
$360360_2 = \chi_{141+}$	.	.	1	1	