

Suz (mod 5)

	blocks	defect	matrix
<i>G</i> :	1	2	16×12
	2	1	4×2
	3	1	5×4
	4	1	5×4
	5	0	$10725_1 = \chi_{10}, \varphi_{10}$
	6	0	$14300_1 = \chi_{12}, \varphi_{12}$
	7	0	$25025_1 = \chi_{17}, \varphi_{16}$
	8	0	$25025_2 = \chi_{18}, \varphi_{17}$
	$9 = \overline{8}$	0	$25025_3 = \chi_{19}, \varphi_{18}$
	10	0	$50050_1 = \chi_{21}, \varphi_{21}$
	$11 = \overline{10}$	0	$50050_2 = \chi_{22}, \varphi_{22}$
	12	0	$64350_1 = \chi_{25}, \varphi_{24}$
	13	0	$64350_2 = \chi_{26}, \varphi_{25}$
	14	0	$75075_1 = \chi_{28}, \varphi_{26}$
	15	0	$100100_1 = \chi_{33}, \varphi_{31}$
	16	0	$163800_1 = \chi_{36}, \varphi_{34}$
	17	0	$193050_1 = \chi_{39}, \varphi_{35}$
<i>2.G</i> :	18	1	5×4
	19	2	16×12
	20	1	4×2
	21	0	$35100_1 = \chi_{54}, \varphi_{47}$
	$22 = \overline{21}$	0	$35100_2 = \chi_{55}, \varphi_{48}$
	23	0	$35100_3 = \chi_{56}, \varphi_{49}$
	24	0	$35100_4 = \chi_{57}, \varphi_{50}$
	25	0	$100100_2 = \chi_{66}, \varphi_{57}$
	26	0	$102400_1 = \chi_{67}, \varphi_{58}$
	27	0	$228800_1 = \chi_{74}, \varphi_{60}$
	28	0	$277200_1 = \chi_{75}, \varphi_{61}$
<i>3.G</i> :	29	2	16×12
	$30 = 29^*$		
	31	1	5×4
	$32 = 31^*$		
	33	1	5×4
	$34 = 33^*$		
	35	0	$2925_1 = \chi_{83}, \varphi_{68}$
	$36 = 35^*$		
	$37 = \overline{36}$	0	$2925_3 = \chi_{84}, \varphi_{69}$
	$38 = 37^*$		
	39	0	$21450_1 = \chi_{91}, \varphi_{76}$
	$40 = 39^*$		

	blocks	defect	matrix
	41 42 = 41*	0	$23100_1 = \chi_{92}, \varphi_{77}$
	43 44 = 43*	0	$42900_1 = \chi_{96}, \varphi_{80}$
	45 46 = 45*	0	$51975_1 = \chi_{97}, \varphi_{81}$
	47 48 = 47*	0	$64350_3 = \chi_{99}, \varphi_{83}$
	49 50 = 49*	0	$75075_2 = \chi_{100}, \varphi_{84}$
	51 52 = 51*	0	$75075_4 = \chi_{101}, \varphi_{85}$
	53 54 = 53*	0	$85800_1 = \chi_{102}, \varphi_{87}$
	55 56 = 55*	0	$193050_2 = \chi_{111}, \varphi_{92}$
	57 58 = 57*	0	$225225_1 = \chi_{113}, \varphi_{93}$
6.G :	59 60 = 59*	2	16×12
	61 62 = 61*	1	5×4
	63 64 = 63*	0	$23100_3 = \chi_{126}, \varphi_{104}$
	65 66 = 65*	0	$35100_5 = \chi_{129}, \varphi_{107}$
	67 = $\overline{66}$ 68 = 67*	0	$35100_7 = \chi_{130}, \varphi_{108}$
	69 70 = 69*	0	$42900_3 = \chi_{131}, \varphi_{109}$
	71 72 = 71*	0	$105600_1 = \chi_{135}, \varphi_{113}$
	73 74 = 73*	0	$171600_1 = \chi_{140}, \varphi_{115}$
	75 76 = 75*	0	$300300_1 = \chi_{142}, \varphi_{116}$
	77 78 = 77*	0	$436800_1 = \chi_{143}, \varphi_{117}$

Block 1:	φ_1	φ_2	φ_3	φ_5	φ_6	φ_{11}	φ_{14}	φ_{15}	φ_{20}	φ_{27}	φ_{28}	φ_{32}
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	.	.	.	.
$143_1 = \chi_2$	.	1	.	.	.	.	.	.	.	.	.	.
$364_1 = \chi_3$	1	.	1	.	.	.	.	.	.	.	.	.
$1001_1 = \chi_5$	.	.	.	1	.	.	.	.	.	.	.	.
$3432_1 = \chi_6$	.	1	.	.	1	.	.	.	.	.	.	.
$12012_1 = \chi_{11}$	.	1	.	.	.	1	.	.	.	.	.	.
$18954_1 = \chi_{16}$	1	.	.	.	.	.	.	1	.	.	.	.
$54054_1 = \chi_{23}$	.	.	1	.	.	1	.	.	1	.	.	.
$64064_1 = \chi_{24}$	.	.	.	.	1	.	.	1	1	.	.	.
$79872_1 = \chi_{29}$	.	.	.	1	1	.	.	.	.	1	.	.
$88452_1 = \chi_{30}$	.	.	.	1	.	1	.	.	.	1	.	.
$133056_1 = \chi_{34}$	1	1	.	.	.	.	1	.	.	.	.	1
$146432_1 = \chi_{35}$	1	.	1	.	.	.	.	1	1	.	1	.
$208494_1 = \chi_{41}$	.	.	.	.	.	.	1	.	.	1	.	1
$243243_1 = \chi_{42}$	1	.	.	.	.	.	.	.	1	.	1	1
$248832_1 = \chi_{43}$	.	1	.	.	1	1	.	.	1	1	.	1

$$\begin{array}{ll}
\varphi_1 = 1_1 & \varphi_{14} = 16785_1 \\
\varphi_2 = 143_1 & \varphi_{15} = 18953_1 \\
\varphi_3 = 363_1 & \varphi_{20} = 41822_1 \\
\varphi_5 = 1001_1 & \varphi_{27} = 75582_1 \\
\varphi_6 = 3289_1 & \varphi_{28} = 85293_1 \\
\varphi_{11} = 11869_1 & \varphi_{32} = 116127_1
\end{array}$$

Block 2:	φ_4	φ_{13}
$780_1 = \chi_4$	1	.
$15015_1 = \chi_{13}$	.	1
$15015_2 = \chi_{14}$	.	1
$15795_1 = \chi_{15}$	1	1

$$\begin{array}{ll}
\varphi_4 = 780_1 \\
\varphi_{13} = 15015_1
\end{array}$$

Block 3:	φ_7	φ_8	φ_{29}	φ_{30}
$5005_1 = \chi_7$	1	.	.	.
$5005_2 = \chi_8$	.	1	.	.
$93555_1 = \chi_{31}$	.	.	1	.
$93555_2 = \chi_{32}$	.	.	.	1
$197120_1 = \chi_{40}$	1	1	1	1

$$\begin{array}{ll}
\varphi_7 = 5005_1 \\
\varphi_8 = 5005_2 \\
\varphi_{29} = 93555_1 \\
\varphi_{30} = 93555_2
\end{array}$$

Block 4:	φ_9	φ_{19}	φ_{23}	φ_{33}
$5940_1 = \chi_9$	1	.	.	.
$40040_1 = \chi_{20}$	.	1	.	.
$66560_1 = \chi_{27}$	1	.	1	.
$168960_1 = \chi_{37}$	.	1	.	1
$189540_1 = \chi_{38}$	.	.	1	1

$$\begin{aligned}
\varphi_9 &= 5940_1 \\
\varphi_{19} &= 40040_1 \\
\varphi_{23} &= 60620_1 \\
\varphi_{33} &= 128920_1
\end{aligned}$$

Block 18:	φ_{36}	φ_{45}	φ_{54}	φ_{59}
$220_1 = \chi_{44}$	1	.	.	.
$20020_1 = \chi_{52}$	.	1	.	.
$80080_1 = \chi_{64}$	1	.	1	.
$137280_1 = \chi_{69}$	.	1	.	1
$197120_2 = \chi_{73}$	.	.	1	1

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

Block 19:	φ_{37}	φ_{38}	φ_{39}	φ_{40}	φ_{41}	φ_{42}	φ_{43}	φ_{44}	φ_{52}	φ_{53}	φ_{55}	φ_{56}
$364_2 = \chi_{45}$	1	.	.	.	.	.	.	.	.	.	.	.
$364_3 = \chi_{46}$	.	1	.	.	.	.	.	.	.	.	.	.
$572_1 = \chi_{47}$	.	.	1	.	.	.	.	.	.	.	.	.
$572_2 = \chi_{48}$	.	.	.	1	.	.	.	.	.	.	.	.
$4928_1 = \chi_{49}$	.	.	1	1	1	1	.	.	.	.	.	.
$16016_1 = \chi_{50}$	1	.	.	.	.	.	1	.	.	.	.	.
$16016_2 = \chi_{51}$	.	1	.	.	.	.	.	1	.	.	.	.
$61236_1 = \chi_{60}$	.	.	.	.	.	.	.	.	1	.	.	.
$61236_2 = \chi_{61}$	.	.	.	.	.	.	.	.	.	1	.	.
$79872_2 = \chi_{62}$	.	.	.	.	.	.	.	.	.	.	1	.
$79872_3 = \chi_{63}$	.	.	.	.	.	.	.	.	.	.	.	1
$128128_1 = \chi_{68}$	1	1	1	1	1	1	.	.	1	1	.	.
$144144_1 = \chi_{70}$	.	.	1	1	1	.	.	.	.	1	1	.
$144144_2 = \chi_{71}$	.	.	1	1	.	1	.	.	1	.	.	1
$192192_1 = \chi_{72}$	.	.	1	1	.	.	1	1	.	.	1	1
$315392_1 = \chi_{76}$	1	1	1	1	.	.	1	1	1	1	1	1

$$\begin{aligned}
\varphi_{37} &= 364_1 & \varphi_{43} &= 15652_1 \\
\varphi_{38} &= 364_2 & \varphi_{44} &= 15652_2 \\
\varphi_{39} &= 572_1 & \varphi_{52} &= 61236_1 \\
\varphi_{40} &= 572_2 & \varphi_{53} &= 61236_2 \\
\varphi_{41} &= 1892_1 & \varphi_{55} &= 79872_1 \\
\varphi_{42} &= 1892_2 & \varphi_{56} &= 79872_2
\end{aligned}$$

Block 20:	φ_{46}	φ_{51}		
$20020_2 = \chi_{53}$	1	.	$\varphi_{46} =$	20020_2
$60060_1 = \chi_{58}$	.	1	$\varphi_{51} =$	60060_1
$60060_2 = \chi_{59}$	.	1		
$80080_2 = \chi_{65}$	1	1		

Blocks 29, 30:	φ_{62}	φ_{63}	φ_{64}	φ_{66}	φ_{70}	φ_{72}	φ_{73}	φ_{75}	φ_{78}	φ_{79}	φ_{86}	φ_{88}
$66_1 = \chi_{77}$	1	.	.	.	.	.	.	.	.	.	.	.
$78_1 = \chi_{78}$	.	1	.	.	.	.	.	.	.	.	.	.
$429_1 = \chi_{79}$	1	.	1	.	.	.	.	.	.	.	.	.
$1716_1 = \chi_{81}$	.	.	.	1	.	.	.	.	.	.	.	.
$3003_1 = \chi_{85}$	.	.	.	.	1	.	.	.	.	.	.	.
$5103_1 = \chi_{87}$	.	.	.	.	.	1	.	.	.	.	.	.
$5103_3 = \chi_{88}$	.	.	.	.	.	.	1	.	.	.	.	.
$18954_2 = \chi_{90}$	.	.	.	1	.	.	.	1	.	.	.	.
$24024_1 = \chi_{93}$	1	.	.	.	.	.	.	.	1	.	.	.
$27027_1 = \chi_{94}$	.	1	.	.	.	.	.	.	.	1	.	.
$30888_1 = \chi_{95}$	.	1	1	.	1	1	1	1	.	.	.	.
$104247_1 = \chi_{103}$	.	.	.	1	.	.	.	.	.	1	1	.
$108108_1 = \chi_{104}$	.	.	1	1	1	1	1	1	.	.	1	.
$133056_2 = \chi_{105}$	1	1	1	.	.	1	1	.	1	.	.	1
$139776_1 = \chi_{107}$	.	1	.	.	1	1	1	.	1	1	1	.
$208494_2 = \chi_{112}$	.	.	1	.	.	1	1	.	1	.	1	1

$\varphi_{62} =$	66_1	$\varphi_{73} =$	5103_3
$\varphi_{63} =$	78_1	$\varphi_{75} =$	17238_1
$\varphi_{64} =$	363_2	$\varphi_{78} =$	23958_1
$\varphi_{66} =$	1716_1	$\varphi_{79} =$	26949_1
$\varphi_{70} =$	3003_1	$\varphi_{86} =$	75582_2
$\varphi_{72} =$	5103_1	$\varphi_{88} =$	98385_1

Blocks 31, 32:	φ_{65}	φ_{71}	φ_{82}	φ_{89}		
$1365_1 = \chi_{80}$	1	.	.	.	$\varphi_{65} =$	1365_1
$4290_1 = \chi_{86}$	.	1	.	.	$\varphi_{71} =$	4290_1
$60060_3 = \chi_{98}$	1	.	1	.	$\varphi_{82} =$	58695_1
$135135_1 = \chi_{106}$	.	1	.	1	$\varphi_{89} =$	130845_1
$189540_2 = \chi_{110}$	.	.	1	1		

Blocks 33, 34:	φ_{67}	φ_{74}	φ_{90}	φ_{91}	
$2145_1 = \chi_{82}$	1	.	.	.	$\varphi_{67} = 2145_1$
$6720_1 = \chi_{89}$	.	1	.	.	$\varphi_{74} = 6720_1$
$160380_1 = \chi_{108}$	1	.	1	.	$\varphi_{90} = 158235_1$
$180180_1 = \chi_{109}$	.	1	.	1	$\varphi_{91} = 173460_1$
$331695_1 = \chi_{114}$	.	.	1	1	

Blocks 59, 60:	φ_{94}	φ_{96}	φ_{97}	φ_{98}	φ_{99}	φ_{101}	φ_{102}	φ_{103}	φ_{105}	φ_{106}	φ_{110}
$12_1 = \chi_{115}$	1	.	.	.	.	.	.	.	.	.	.
$924_1 = \chi_{117}$	.	1	.	.	.	.	.	.	.	.	.
$4368_1 = \chi_{118}$	1	.	1	.	.	.	.	.	.	.	.
$4368_3 = \chi_{119}$	1	.	.	1	.	.	.	.	.	.	.
$11088_1 = \chi_{121}$	1	.	.	.	.	1	.	.	.	.	.
$11088_3 = \chi_{122}$	1	.	.	.	.	.	1	.	.	.	.
$12012_2 = \chi_{123}$	.	.	.	.	.	.	.	1	.	.	.
$12012_4 = \chi_{124}$	.	.	1	.	1	.	.	.	.	.	.
$12012_6 = \chi_{125}$	.	.	.	1	1	.	.	.	.	.	.
$27456_1 = \chi_{127}$	.	1	.	.	.	.	.	.	1	.	.
$27456_3 = \chi_{128}$	.	1	.	.	.	.	.	.	.	1	.
$61236_3 = \chi_{132}$	.	.	.	.	.	1	.	.	.	.	1
$61236_5 = \chi_{133}$	.	.	.	.	.	.	1	.	.	.	.
$139776_3 = \chi_{137}$	1	1	1	1	1	1	1	.	.	.	1
$144144_3 = \chi_{138}$	.	1	.	1	.	.	.	1	.	1	1
$144144_5 = \chi_{139}$	.	1	1	.	.	.	.	1	1	.	1

(Blocks 59, 60:)	φ_{111}		
$12_1 = \chi_{115}$	.		
$924_1 = \chi_{117}$	.	$\varphi_{94} =$	12_1
$4368_1 = \chi_{118}$	.	$\varphi_{96} =$	924_1
$4368_3 = \chi_{119}$	.	$\varphi_{97} =$	4356_1
$11088_1 = \chi_{121}$	.	$\varphi_{98} =$	4356_3
$11088_3 = \chi_{122}$	.	$\varphi_{99} =$	7656_1
$12012_2 = \chi_{123}$	.	$\varphi_{101} =$	11076_1
$12012_4 = \chi_{124}$	.	$\varphi_{102} =$	11076_3
$12012_6 = \chi_{125}$	.	$\varphi_{103} =$	12012_1
$27456_1 = \chi_{127}$	.	$\varphi_{105} =$	26532_1
$27456_3 = \chi_{128}$	.	$\varphi_{106} =$	26532_3
$61236_3 = \chi_{132}$	.	$\varphi_{110} =$	50160_1
$61236_5 = \chi_{133}$	1	$\varphi_{111} =$	50160_3
$139776_3 = \chi_{137}$	1		
$144144_3 = \chi_{138}$	1		
$144144_5 = \chi_{139}$	1		

Blocks 61, 62:	φ_{95}	φ_{100}	φ_{112}	φ_{114}		
$780_2 = \chi_{116}$	1	.	.	.	$\varphi_{95} =$	780_2
$8580_1 = \chi_{120}$	.	1	.	.	$\varphi_{100} =$	8580_1
$77220_1 = \chi_{134}$	.	1	1	.	$\varphi_{112} =$	68640_1
$112320_1 = \chi_{136}$	1	.	.	1	$\varphi_{114} =$	111540_1
$180180_3 = \chi_{141}$	.	.	1	1		