

$F_{3+}.2 \pmod{13}$

	blocks	defect	matrix
$G :$	1	1	13×12
	2	1	13×12
	3	0	$8671_1 = \chi_{2,0}, Y_3$
	4	0	$8671_2 = \chi_{2,1}, Y_4$
	5	1	8×6
	6	1	8×6
	7	1	13×12
	8	0	$4864431_1 = \chi_{9,0}, Y_{17}$
	9	0	$4864431_2 = \chi_{9,1}, Y_{18}$
	10	0	$32715683_1 = \chi_{10,0}, Y_{19}$
	11	0	$32715683_2 = \chi_{10,1}, Y_{20}$
	12	0	$40536925_1 = \chi_{12,0}, Y_{23}$
	13	0	$40536925_2 = \chi_{12,1}, Y_{24}$
	14	1	8×6
	15	0	$79452373_1 = \chi_{16,0}, Y_{28}$
	16	0	$79452373_2 = \chi_{16,1}, Y_{29}$
	17	0	$112168056_1 = \chi_{17,0}, Y_{30}$
	18	0	$112168056_2 = \chi_{17,1}, Y_{31}$
	19	0	$159402880_1 = \chi_{18,0}, Y_{32}$
	20	0	$159402880_2 = \chi_{18,1}, Y_{33}$
	21	0	$281380736_1 = \chi_{19,0}, Y_{34}$
	22	0	$281380736_2 = \chi_{19,1}, Y_{35}$
	23	0	$415098112_1 = \chi_{20,0}, Y_{36}$
	24	0	$415098112_2 = \chi_{20,1}, Y_{37}$
	25	0	$635618984_1 = \chi_{21,0}, Y_{38}$
	26	0	$635618984_2 = \chi_{21,1}, Y_{39}$
	27	0	$1112333222_1 = \chi_{23,0}, Y_{42}$
	28	0	$1112333222_2 = \chi_{23,1}, Y_{43}$
	29	0	$1264015025_1 = \chi_{24,0}, Y_{44}$
	30	0	$1264015025_2 = \chi_{24,1}, Y_{45}$
	31	0	$1337276304_1 = \chi_{25,0}, Y_{46}$
	32	0	$1337276304_2 = \chi_{25,1}, Y_{47}$
	33	0	$3178094920_1 = \chi_{28,0}, Y_{52}$
	34	0	$3178094920_2 = \chi_{28,1}, Y_{53}$
	35	0	$3283490925_1 = \chi_{30,0}, Y_{56}$
	36	0	$3283490925_2 = \chi_{30,1}, Y_{57}$
	37	0	$5005499499_1 = \chi_{31,0}, Y_{59}$
	38	0	$5005499499_2 = \chi_{31,1}, Y_{60}$
	39	0	$5775278080_1 = \chi_{32,0}, Y_{61}$
	40	0	$5775278080_2 = \chi_{32,1}, Y_{62}$

	blocks	defect	matrix
	41	0	$6471756928_1 = \chi_{33,0}, Y_{63}$
	42	0	$6471756928_2 = \chi_{33,1}, Y_{64}$
	43	0	$7150713570_1 = \chi_{34,0}, Y_{67}$
	44	0	$7150713570_2 = \chi_{34,1}, Y_{68}$
	45	0	$9100908180_1 = \chi_{36,0}, Y_{69}$
	46	0	$9100908180_2 = \chi_{36,1}, Y_{70}$
	47	0	$10169903744_1 = \chi_{38,0}, Y_{71}$
	48	0	$10169903744_2 = \chi_{38,1}, Y_{72}$
	49	0	$13904165275_1 = \chi_{41,0}, Y_{75}$
	50	0	$13904165275_2 = \chi_{41,1}, Y_{76}$
	51	0	$13904165275_3 = \chi_{42,0}, Y_{77}$
	52	0	$13904165275_4 = \chi_{42,1}, Y_{78}$
	53	0	$14507059905_1 = \chi_{43,0}, Y_{79}$
	54	0	$14507059905_2 = \chi_{43,1}, Y_{80}$
	55	0	$17161712568_1 = \chi_{45,0}, Y_{83}$
	56	0	$17161712568_2 = \chi_{45,1}, Y_{84}$
	57	0	$25027497495_1 = \chi_{48,0}, Y_{85}$
	58	0	$25027497495_2 = \chi_{48,1}, Y_{86}$
	59	0	$27808330550_1 = \chi_{49,0}, Y_{87}$
	60	0	$27808330550_2 = \chi_{49,1}, Y_{88}$
	61	0	$29444114700_1 = \chi_{50,0}, Y_{89}$
	62	0	$29444114700_2 = \chi_{50,1}, Y_{90}$
	63	0	$35594663104_1 = \chi_{51,0}, Y_{93}$
	64	0	$35594663104_2 = \chi_{51,1}, Y_{94}$
	65	0	$36858678129_1 = \chi_{52,0}, Y_{95}$
	66	0	$36858678129_2 = \chi_{52,1}, Y_{96}$
	67	0	$38641860608_1 = \chi_{54,0}, Y_{97}$
	68	0	$38641860608_2 = \chi_{54,1}, Y_{98}$
	69	0	$40043995992_1 = \chi_{55,0}, Y_{99}$
	70	0	$40043995992_2 = \chi_{55,1}, Y_{100}$
	71	0	$44493328880_1 = \chi_{56,0}, Y_{101}$
	72	0	$44493328880_2 = \chi_{56,1}, Y_{102}$
	73	0	$45049495491_1 = \chi_{57,0}, Y_{103}$
	74	0	$45049495491_2 = \chi_{57,1}, Y_{104}$
	75	0	$46602926370_1 = \chi_{58,0}, Y_{105}$
	76	0	$46602926370_2 = \chi_{58,1}, Y_{106}$
	77	0	$108963254400_1 = \chi_{60+}, Y_{110}$
	78	0	$55616661100_1 = \chi_{62,0}, Y_{111}$
	79	0	$55616661100_2 = \chi_{62,1}, Y_{112}$
	80	0	$63831063582_1 = \chi_{63,0}, Y_{113}$

	blocks	defect	matrix
	81	0	$63831063582_2 = \chi_{63,1}, Y_{114}$
	82	0	$67331776512_1 = \chi_{66,0}, Y_{115}$
	83	0	$67331776512_2 = \chi_{66,1}, Y_{116}$
	84	0	$71189326208_1 = \chi_{67,0}, Y_{119}$
	85	0	$71189326208_2 = \chi_{67,1}, Y_{120}$
	86	0	$74887473024_1 = \chi_{68,0}, Y_{123}$
	87	0	$74887473024_2 = \chi_{68,1}, Y_{124}$
	88	0	$77379702400_1 = \chi_{72,0}, Y_{127}$
	89	0	$77379702400_2 = \chi_{72,1}, Y_{128}$
	90	0	$102385217025_1 = \chi_{73,0}, Y_{133}$
	91	0	$102385217025_2 = \chi_{73,1}, Y_{134}$
	92	0	$111233322200_1 = \chi_{74,0}, Y_{135}$
	93	0	$111233322200_2 = \chi_{74,1}, Y_{136}$
	94	0	$111233322200_3 = \chi_{75,0}, Y_{137}$
	95	0	$111233322200_4 = \chi_{75,1}, Y_{138}$
	96	0	$264780708192_1 = \chi_{77+}, Y_{139}$
	97	0	$280191225600_1 = \chi_{80+}, Y_{140}$
	98	0	$142169187069_1 = \chi_{82,0}, Y_{141}$
	99	0	$142169187069_2 = \chi_{82,1}, Y_{142}$
	100	0	$142378652416_1 = \chi_{83,0}, Y_{143}$
	101	0	$142378652416_2 = \chi_{83,1}, Y_{144}$
	102	0	$151397207325_1 = \chi_{86,0}, Y_{145}$
	103	0	$151397207325_2 = \chi_{86,1}, Y_{146}$
	104	0	$151397207325_3 = \chi_{87,0}, Y_{147}$
	105	0	$151397207325_4 = \chi_{87,1}, Y_{148}$
	106	0	$160313753600_1 = \chi_{90,0}, Y_{152}$
	107	0	$160313753600_2 = \chi_{90,1}, Y_{153}$
	108	0	$169598100672_1 = \chi_{93,0}, Y_{154}$
	109	0	$169598100672_2 = \chi_{93,1}, Y_{155}$
	110	0	$178514751987_1 = \chi_{94,0}, Y_{156}$
	111	0	$178514751987_2 = \chi_{94,1}, Y_{157}$
	112	0	$184117100544_1 = \chi_{95,0}, Y_{160}$
	113	0	$184117100544_2 = \chi_{95,1}, Y_{161}$
	114	0	$190685695200_1 = \chi_{96,0}, Y_{162}$
	115	0	$190685695200_2 = \chi_{96,1}, Y_{163}$
	116	0	$400439959920_1 = \chi_{99+}, Y_{164}$
	117	0	$205940550816_1 = \chi_{103,0}, Y_{165}$
	118	0	$205940550816_2 = \chi_{103,1}, Y_{166}$
	119	0	$222758961152_1 = \chi_{104,0}, Y_{167}$
	120	0	$222758961152_2 = \chi_{104,1}, Y_{168}$

	blocks	defect	matrix
	121	0	$225247477455_1 = \chi_{105,0}, Y_{169}$
	122	0	$225247477455_2 = \chi_{105,1}, Y_{170}$
	123	0	$250274974950_1 = \chi_{106,0}, Y_{171}$
	124	0	$250274974950_2 = \chi_{106,1}, Y_{172}$
	125	0	$282049015248_1 = \chi_{107,0}, Y_{173}$
	126	0	$282049015248_2 = \chi_{107,1}, Y_{174}$
3.G :	127	1	13×12
	128	0	$129168_1 = \chi_{110+}, Y_{176}$
	129	1	13×12
	130	0	$13449618_1 = \chi_{113+}, Y_{179}$
	131	0	$38069460_1 = \chi_{114+}, Y_{180}$
	132	0	$87559758_1 = \chi_{116+}, Y_{182}$
	133	0	$390038922_1 = \chi_{117+}, Y_{183}$
	134	0	$390038922_2 = \chi_{118+}, Y_{184}$
	135	0	$432309150_1 = \chi_{120+}, Y_{186}$
	$136 = \overline{135}$	0	$432309150_2 = \chi_{121+}, Y_{187}$
	137	0	$2101434192_1 = \chi_{123+}, Y_{189}$
	138	0	$2304322020_1 = \chi_{124+}, Y_{190}$
	$139 = \overline{138}$	0	$2304322020_2 = \chi_{125+}, Y_{191}$
	140	0	$3106861758_1 = \chi_{130+}, Y_{196}$
	141	0	$5603824512_1 = \chi_{133+}, Y_{199}$
	142	0	$6528912390_1 = \chi_{134+}, Y_{200}$
	143	0	$8580856284_1 = \chi_{135+}, Y_{201}$
	144	0	$8833234410_1 = \chi_{136+}, Y_{202}$
	145	0	$17987819850_1 = \chi_{140+}, Y_{206}$
	$146 = \overline{145}$	0	$17987819850_2 = \chi_{141+}, Y_{207}$
	147	0	$18912907728_1 = \chi_{142+}, Y_{208}$
	148	0	$21452140710_1 = \chi_{143+}, Y_{209}$
	149	0	$24516732240_1 = \chi_{144+}, Y_{210}$
	150	0	$29014119810_1 = \chi_{145+}, Y_{211}$
	151	0	$30032996994_1 = \chi_{146+}, Y_{212}$
	152	0	$42028683840_1 = \chi_{147+}, Y_{214}$
	153	0	$42193502208_1 = \chi_{148+}, Y_{215}$
	154	0	$43684359264_1 = \chi_{150+}, Y_{216}$
	155	0	$68256811350_1 = \chi_{151+}, Y_{217}$
	156	0	$68256811350_2 = \chi_{152+}, Y_{218}$
	157	0	$83570078592_1 = \chi_{153+}, Y_{219}$
	158	0	$127662127164_1 = \chi_{154+}, Y_{222}$
	159	0	$156693897360_1 = \chi_{155+}, Y_{224}$
	160	0	$168114735360_1 = \chi_{158+}, Y_{225}$

(Block 2:)	Y_{131}	
$1_2 = \chi_{1,1}$.	$Y_2 = 1_2$
$249458_2 = \chi_{4,1}$.	$Y_8 = 249458_2$
$1603525_1 = \chi_{6,0}$.	$Y_{11} = 1603525_1$
$1603525_3 = \chi_{7,0}$.	$Y_{13} = 1603525_3$
$1666833_2 = \chi_{8,1}$.	$Y_{16} = 1666833_2$
$48893768_2 = \chi_{13,1}$.	$Y_{26} = 47226936_2$
$1540153692_1 = \chi_{26,0}$.	$Y_{48} = 1492926756_1$
$3208653525_2 = \chi_{29,1}$.	$Y_{55} = 3208404067_2$
$8529641472_1 = \chi_{35,0}$.	$Y_{65} = 7036714716_1$
$37337059200_1 = \chi_{53,0}$.	$Y_{91} = 30297137434_1$
$54234085491_2 = \chi_{59,1}$.	$Y_{108} = 51025681424_2$
$118588933386_1 = \chi_{76,0}$	1	$Y_{131} = 88291795952_1$
$139317477376_2 = \chi_{79,1}$	1	

Block 5:	Y_5	Y_{21}	Y_{41}	Y_{81}	Y_{150}	Y_{158}
$57477_1 = \chi_{3,0}$	1	.	.	.	.	.
$35873145_1 = \chi_{11,0}$	1	1	.	.	.	.
$1069551175_2 = \chi_{22,1}$	.	.	1	.	.	.
$17068369920_1 = \chi_{44,0}$	.	1	.	1	.	.
$156321775827_1 = \chi_{88,0}$	.	.	1	.	1	.
$197813862400_1 = \chi_{97,0}$	.	.	.	1	.	1
$197813862400_3 = \chi_{98,0}$	.	.	.	1	.	1
$336033532800_1 = \chi_{108,0}$	.	.	.	.	1	1

$$\begin{aligned}
Y_5 &= 57477_1 & Y_{81} &= 17032554252_1 \\
Y_{21} &= 35815668_1 & Y_{150} &= 155252224652_1 \\
Y_{41} &= 1069551175_2 & Y_{158} &= 180781308148_1
\end{aligned}$$

Block 6:	Y_6	Y_{22}	Y_{40}	Y_{82}	Y_{151}	Y_{159}
$57477_2 = \chi_{3,1}$	1	.	.	.	.	.
$35873145_2 = \chi_{11,1}$	1	1	.	.	.	.
$1069551175_1 = \chi_{22,0}$	.	.	1	.	.	.
$17068369920_2 = \chi_{44,1}$	.	1	.	1	.	.
$156321775827_2 = \chi_{88,1}$	.	.	1	.	1	.
$197813862400_2 = \chi_{97,1}$	.	.	.	1	.	1
$197813862400_4 = \chi_{98,1}$	.	.	.	1	.	1
$336033532800_2 = \chi_{108,1}$	.	.	.	.	1	1

$$\begin{aligned}
Y_6 &= 57477_2 & Y_{82} &= 17032554252_2 \\
Y_{22} &= 35815668_2 & Y_{151} &= 155252224652_2 \\
Y_{40} &= 1069551175_1 & Y_{159} &= 180781308148_2
\end{aligned}$$

Block 7:	Y_9	Y_{10}	Y_{50}	Y_{51}	Y_{117}	Y_{118}	Y_{121}	Y_{122}	Y_{125}
$555611_1 = \chi_{5,0}$	1	.	.	.	.	.	.	.	.
$555611_2 = \chi_{5,1}$.	1	.	.	.	.	.	.	.
$2346900864_1 = \chi_{27,0}$	1	.	1	.	.	.	.	.	.
$2346900864_2 = \chi_{27,1}$.	1	.	1	.	.	.	.	.
$154015369200_1 = \chi_{69+}$	1
$77108871168_1 = \chi_{71,0}$.	.	1	.	.	.	1	.	.
$77108871168_2 = \chi_{71,1}$.	.	.	1	.	.	.	1	.
$145650089984_1 = \chi_{84,0}$	1	.	.	.	1
$145650089984_2 = \chi_{84,1}$	1	.	.	.
$150201655296_1 = \chi_{85,0}$	1	.	.	.	.
$150201655296_2 = \chi_{85,1}$	1	.	.	.
$156321775827_3 = \chi_{89,0}$	1	.	.
$156321775827_4 = \chi_{89,1}$	1	.

(Block 7:)	Y_{126}	Y_{129}	Y_{130}	
$555611_1 = \chi_{5,0}$.	.	.	$Y_9 = 555611_1$
$555611_2 = \chi_{5,1}$.	.	.	$Y_{10} = 555611_2$
$2346900864_1 = \chi_{27,0}$.	.	.	$Y_{50} = 2346345253_1$
$2346900864_2 = \chi_{27,1}$.	.	.	$Y_{51} = 2346345253_2$
$154015369200_1 = \chi_{69+}$	1	.	.	$Y_{117} = 68642405384_1$
$77108871168_1 = \chi_{71,0}$.	.	.	$Y_{118} = 68642405384_2$
$77108871168_2 = \chi_{71,1}$.	.	.	$Y_{121} = 74762525915_1$
$145650089984_1 = \chi_{84,0}$.	.	.	$Y_{122} = 74762525915_2$
$145650089984_2 = \chi_{84,1}$	1	.	.	$Y_{125} = 77007684600_1$
$150201655296_1 = \chi_{85,0}$.	1	.	$Y_{126} = 77007684600_2$
$150201655296_2 = \chi_{85,1}$.	.	1	$Y_{129} = 81559249912_1$
$156321775827_3 = \chi_{89,0}$.	1	.	$Y_{130} = 81559249912_2$
$156321775827_4 = \chi_{89,1}$.	.	1	

Block 14:	Y_{27}	Y_{58}	Y_{73}	Y_{74}	Y_{109}	Y_{149}
$149674800_1 = \chi_{14+}$	1	.	.	.	.	.
$9441555200_1 = \chi_{37,0}$	1	1	.	.	.	.
$9441555200_2 = \chi_{37,1}$	1	1	.	.	.	.
$21553171200_1 = \chi_{39+}$	.	.	1	.	.	.
$36963688608_1 = \chi_{46+}$	.	1	.	1	.	.
$130787835904_1 = \chi_{64+}$	.	.	.	1	1	.
$329144794704_1 = \chi_{91+}$	.	.	1	.	.	1
$410707651200_1 = \chi_{101+}$	.	.	.	.	1	1

$$\begin{aligned}
Y_{27} &= 149674800_1 & Y_{74} &= 27671808208_1 \\
Y_{58} &= 9291880400_1 & Y_{109} &= 103116027696_1 \\
Y_{73} &= 21553171200_1 & Y_{149} &= 307591623504_1
\end{aligned}$$

Block 127:	Y_{175}	Y_{177}	Y_{185}	Y_{192}	Y_{193}	Y_{197}	Y_{198}	Y_{204}	Y_{205}
$1566_1 = \chi_{109+}$	1	.	.	.	.	.	.	.	.
$612306_1 = \chi_{111+}$.	1	.	.	.	.	.	.	.
$407687742_1 = \chi_{119+}$	1	.	1	.	.	.	.	.	.
$2511120150_1 = \chi_{126+}$.	.	.	1	.	.	.	.	.
$2511120150_2 = \chi_{127+}$	1	.	.	.	.
$3637097640_1 = \chi_{131+}$.	1	.	.	.	1	.	.	.
$4800479040_1 = \chi_{132+}$.	.	1	.	.	.	1	.	.
$16501243050_1 = \chi_{138+}$	1	.
$16501243050_2 = \chi_{139+}$	1
$160512344064_1 = \chi_{156+}$	1	.	.
$271210512384_1 = \chi_{162+}$	1	.	.	.
$370322668800_1 = \chi_{171+}$
$519801871050_1 = \chi_{176+}$.	.	.	1	1	.	.	1	1

(Block 129:)	Y_{229}	Y_{232}	Y_{236}	
$612306_2 = \chi_{112+}$.	.	.	$Y_{178} = 612306_2$
$50713344_1 = \chi_{115+}$.	.	.	$Y_{181} = 50713344_1$
$660065868_1 = \chi_{122+}$.	.	.	$Y_{188} = 659453562_1$
$2699174016_1 = \chi_{128+}$.	.	.	$Y_{194} = 2699174016_1$
$2699174016_2 = \chi_{129+}$.	.	.	$Y_{195} = 2699174016_2$
$9240922152_1 = \chi_{137+}$.	.	.	$Y_{203} = 9190208808_1$
$42244215552_1 = \chi_{149+}$.	.	.	$Y_{213} = 41584761990_1$
$160512344064_2 = \chi_{157+}$.	.	.	$Y_{220} = 113529234042_1$
$231023053800_1 = \chi_{160+}$.	.	.	$Y_{221} = 117493819758_1$
$271210512384_2 = \chi_{163+}$	1	.	.	$Y_{229} = 262020303576_1$
$421111722636_1 = \chi_{173+}$.	.	1	$Y_{232} = 287801114850_1$
$549821418426_1 = \chi_{178+}$	1	1	.	$Y_{236} = 303617902878_1$
$591419017728_1 = \chi_{179+}$.	1	1	