

$$Fi_{23} \pmod{13}$$

	blocks	defect	matrix
$G :$	1	1	8×6
	2	1	8×6
	3	0	$3588_1 = \chi_3, \varphi_3$
	4	0	$5083_1 = \chi_4, \varphi_4$
	5	1	8×6
	6	0	$30888_1 = \chi_6, \varphi_6$
	7	0	$60996_1 = \chi_7, \varphi_7$
	8	0	$106743_1 = \chi_8, \varphi_8$
	9	0	$111826_1 = \chi_9, \varphi_9$
	10	0	$274482_1 = \chi_{10}, \varphi_{10}$
	11	0	$279565_1 = \chi_{11}, \varphi_{11}$
	12	0	$789360_1 = \chi_{13}, \varphi_{13}$
	13	0	$837200_1 = \chi_{15}, \varphi_{15}$
	$14 = \overline{13}$	0	$837200_2 = \chi_{16}, \varphi_{16}$
	15	0	$850850_1 = \chi_{17}, \varphi_{17}$
	$16 = \overline{15}$	0	$850850_2 = \chi_{18}, \varphi_{18}$
	17	0	$1677390_1 = \chi_{19}, \varphi_{19}$
	18	0	$1951872_1 = \chi_{20}, \varphi_{20}$
	19	0	$2236520_1 = \chi_{21}, \varphi_{21}$
	20	0	$3913910_1 = \chi_{23}, \varphi_{23}$
	21	0	$6709560_1 = \chi_{25}, \varphi_{25}$
	22	0	$7468032_1 = \chi_{26}, \varphi_{26}$
	23	0	$8783424_1 = \chi_{27}, \varphi_{27}$
	24	0	$9108736_1 = \chi_{28}, \varphi_{28}$
	$25 = \overline{24}$	0	$9108736_2 = \chi_{29}, \varphi_{29}$
	26	0	$10567557_1 = \chi_{30}, \varphi_{30}$
	27	0	$10674300_1 = \chi_{31}, \varphi_{31}$
	28	0	$12077208_1 = \chi_{32}, \varphi_{32}$
	29	0	$15096510_1 = \chi_{33}, \varphi_{33}$
	30	0	$17892160_1 = \chi_{34}, \varphi_{34}$
	31	0	$21135114_1 = \chi_{37}, \varphi_{37}$
	32	0	$21348600_1 = \chi_{38}, \varphi_{38}$
	33	0	$22644765_1 = \chi_{39}, \varphi_{39}$
	34	0	$26838240_1 = \chi_{40}, \varphi_{40}$
	35	0	$28464800_1 = \chi_{41}, \varphi_{41}$
	36	0	$29354325_1 = \chi_{42}, \varphi_{42}$
	37	0	$35225190_1 = \chi_{43}, \varphi_{43}$
	38	0	$37573536_1 = \chi_{44}, \varphi_{44}$
	39	0	$40840800_1 = \chi_{45}, \varphi_{45}$
	40	0	$42270228_1 = \chi_{46}, \varphi_{46}$

	blocks	defect	matrix
	41	0	$48034350_1 = \chi_{47}, \varphi_{47}$
	42	0	$48308832_1 = \chi_{48}, \varphi_{48}$
	43	0	$56360304_1 = \chi_{50}, \varphi_{51}$
	44	0	$56360304_2 = \chi_{51}, \varphi_{52}$
	45	0	$57254912_1 = \chi_{52}, \varphi_{53}$
	46	0	$58708650_1 = \chi_{53}, \varphi_{54}$
	47	0	$58708650_2 = \chi_{54}, \varphi_{55}$
	48	0	$65875680_1 = \chi_{55}, \varphi_{56}$
	49	0	$78278200_1 = \chi_{58}, \varphi_{59}$
	50	0	$93933840_1 = \chi_{59}, \varphi_{60}$
	51	0	$97976320_1 = \chi_{60}, \varphi_{61}$
	52	0	$133398252_1 = \chi_{61}, \varphi_{62}$
	53	0	$166559744_1 = \chi_{64}, \varphi_{64}$
	54	0	$166559744_2 = \chi_{65}, \varphi_{65}$
	55	0	$176125950_1 = \chi_{66}, \varphi_{66}$
	56	0	$176125950_2 = \chi_{67}, \varphi_{67}$
	57	0	$203802885_1 = \chi_{68}, \varphi_{68}$
	58	0	$211351140_1 = \chi_{70}, \varphi_{71}$
	59	0	$216154575_1 = \chi_{71}, \varphi_{72}$
	60	0	$244563462_1 = \chi_{73}, \varphi_{73}$
	61	0	$264188925_1 = \chi_{75}, \varphi_{74}$
	62	0	$264536064_1 = \chi_{76}, \varphi_{75}$
	63	0	$264536064_2 = \chi_{77}, \varphi_{76}$
	64	0	$286274560_1 = \chi_{78}, \varphi_{77}$
	65	0	$287721720_1 = \chi_{79}, \varphi_{79}$
	66	0	$313112800_1 = \chi_{83}, \varphi_{80}$
	67	0	$313112800_2 = \chi_{84}, \varphi_{81}$
	68	0	$313112800_3 = \chi_{85}, \varphi_{82}$
	69	0	$322058880_1 = \chi_{86}, \varphi_{83}$
	70	0	$336061440_1 = \chi_{87}, \varphi_{84}$
	71	0	$341577600_1 = \chi_{88}, \varphi_{85}$
	72	0	$343529472_1 = \chi_{89}, \varphi_{86}$
	73	0	$352251900_1 = \chi_{90}, \varphi_{87}$
	74	0	$362316240_1 = \chi_{91}, \varphi_{88}$
	75	0	$476702577_1 = \chi_{92}, \varphi_{90}$
	76	0	$528377850_1 = \chi_{97}, \varphi_{91}$
	77	0	$559458900_1 = \chi_{98}, \varphi_{92}$

Block 1:	φ_1	φ_{12}	φ_{14}	φ_{35}	φ_{57}	φ_{63}	
$1_1 = \chi_1$	1	.	.	.	.	.	$\varphi_1 = 1_1$
$752675_1 = \chi_{12}$	.	1	.	.	.	.	$\varphi_{12} = 752675_1$
$812889_1 = \chi_{14}$	1	.	1	.	.	.	$\varphi_{14} = 812889_1$
$18812574_1 = \chi_{35}$	.	.	1	1	.	.	$\varphi_{35} = 17999686_1$
$73531392_2 = \chi_{57}$	.	1	.	.	1	.	$\varphi_{57} = 72778717_1$
$153014400_1 = \chi_{62}$	.	.	.	1	.	1	$\varphi_{63} = 135014714_1$
$153014400_2 = \chi_{63}$	.	.	.	1	.	1	
$207793431_1 = \chi_{69}$	.	.	.	.	1	1	

Block 2:	φ_2	φ_{24}	φ_{50}	φ_{58}	φ_{70}	φ_{89}	
$782_1 = \chi_2$	1	.	.	.	.	.	$\varphi_2 = 782_1$
$5533110_1 = \chi_{24}$	1	1	.	.	.	.	$\varphi_{24} = 5532328_1$
$55740960_1 = \chi_{49}$	.	.	1	.	.	.	$\varphi_{50} = 55740960_1$
$216770400_1 = \chi_{72}$	.	1	.	.	1	.	$\varphi_{58} = 77865832_1$
$289103904_1 = \chi_{82}$	.	.	.	1	1	.	$\varphi_{70} = 211238072_1$
$504627200_1 = \chi_{94}$	.	.	1	.	.	1	$\varphi_{89} = 448886240_1$
$504627200_2 = \chi_{95}$	.	.	1	.	.	1	
$526752072_1 = \chi_{96}$	.	.	.	1	.	1	

Block 5:	φ_5	φ_{22}	φ_{36}	φ_{49}	φ_{69}	φ_{78}	
$25806_1 = \chi_5$	1	.	.	.	.	.	$\varphi_5 = 25806_1$
$2322540_1 = \chi_{22}$	1	1	.	.	.	.	$\varphi_{22} = 2296734_1$
$20322225_1 = \chi_{36}$	.	.	1	.	.	.	$\varphi_{36} = 20322225_1$
$73531392_1 = \chi_{56}$	.	.	1	1	.	.	$\varphi_{49} = 53209167_1$
$263376036_1 = \chi_{74}$	.	.	.	1	1	.	$\varphi_{69} = 210166869_1$
$289027200_1 = \chi_{80}$	.	1	.	.	.	1	$\varphi_{78} = 286730466_1$
$289027200_2 = \chi_{81}$	.	1	.	.	.	1	
$496897335_1 = \chi_{93}$	.	.	.	.	1	1	