

$Fi_{22} \pmod{11}$

	blocks	defect	matrix
$G :$	1	1	7×5
	2	1	7×5
	3	0	$429_1 = \chi_3, \varphi_3$
	4	0	$1001_1 = \chi_4, \varphi_4$
	5	0	$1430_1 = \chi_5, \varphi_5$
	6	0	$3003_1 = \chi_6, \varphi_6$
	7	0	$3080_1 = \chi_7, \varphi_7$
	8	0	$10725_1 = \chi_8, \varphi_8$
	9	0	$30030_1 = \chi_{10}, \varphi_{10}$
	10	0	$32032_1 = \chi_{11}, \varphi_{11}$
	11	0	$45045_1 = \chi_{13}, \varphi_{13}$
	12	0	$48048_1 = \chi_{14}, \varphi_{14}$
	13	0	$50050_1 = \chi_{15}, \varphi_{15}$
	14	0	$50050_2 = \chi_{16}, \varphi_{16}$
	15	0	$75075_1 = \chi_{17}, \varphi_{17}$
	16	0	$75075_2 = \chi_{18}, \varphi_{18}$
	17	0	$75075_3 = \chi_{19}, \varphi_{19}$
	18	0	$81081_1 = \chi_{20}, \varphi_{20}$
	19	0	$114400_1 = \chi_{21}, \varphi_{21}$
	20	0	$138600_1 = \chi_{22}, \varphi_{22}$
	21	0	$138600_2 = \chi_{23}, \varphi_{23}$
	22	0	$150150_1 = \chi_{24}, \varphi_{24}$
	23	0	$205920_1 = \chi_{25}, \varphi_{25}$
	24	0	$289575_1 = \chi_{26}, \varphi_{26}$
	25	0	$300300_1 = \chi_{27}, \varphi_{27}$
	26	0	$320320_1 = \chi_{28}, \varphi_{28}$
	27	0	$360855_1 = \chi_{29}, \varphi_{29}$
	28	0	$370656_1 = \chi_{30}, \varphi_{30}$
	29	0	$400400_1 = \chi_{31}, \varphi_{31}$
	30	0	$400400_2 = \chi_{32}, \varphi_{32}$
	31	0	$400400_3 = \chi_{33}, \varphi_{33}$
	$32 = \overline{31}$	0	$400400_4 = \chi_{34}, \varphi_{34}$
	33	0	$450450_1 = \chi_{35}, \varphi_{35}$
	34	0	$450450_2 = \chi_{36}, \varphi_{36}$
	35	0	$576576_1 = \chi_{37}, \varphi_{37}$
	36	0	$577368_1 = \chi_{38}, \varphi_{38}$
	37	0	$579150_1 = \chi_{39}, \varphi_{39}$
	38	0	$600600_1 = \chi_{42}, \varphi_{41}$
	39	0	$600600_2 = \chi_{43}, \varphi_{42}$
	$40 = \overline{39}$	0	$600600_3 = \chi_{44}, \varphi_{43}$

	blocks	defect	matrix
	41	0	$675675_1 = \chi_{45}, \varphi_{44}$
	42	0	$720720_1 = \chi_{46}, \varphi_{45}$
	43	0	$800800_1 = \chi_{47}, \varphi_{46}$
	44	0	$938223_1 = \chi_{49}, \varphi_{48}$
	45	0	$972972_1 = \chi_{50}, \varphi_{49}$
	46	0	$1201200_1 = \chi_{53}, \varphi_{51}$
	47	0	$1372800_1 = \chi_{55}, \varphi_{54}$
	48	0	$1441792_1 = \chi_{56}, \varphi_{55}$
	49	0	$1876446_1 = \chi_{58}, \varphi_{57}$
	50	0	$2027025_1 = \chi_{59}, \varphi_{58}$
	51	0	$2050048_1 = \chi_{60}, \varphi_{59}$
	52	0	$2316600_1 = \chi_{61}, \varphi_{60}$
	53	0	$2402400_1 = \chi_{62}, \varphi_{61}$
2.G :	54	0	$352_1 = \chi_{66}, \varphi_{62}$
	55	1	7×5
	56	1	7×5
	57	0	$13728_1 = \chi_{73}, \varphi_{67}$
	58	0	$13728_2 = \chi_{74}, \varphi_{68}$
	59	0	$27456_1 = \chi_{75}, \varphi_{69}$
	60	0	$48048_2 = \chi_{76}, \varphi_{70}$
	61	0	$48048_3 = \chi_{77}, \varphi_{71}$
	62	0	$105600_1 = \chi_{78}, \varphi_{72}$
	$63 = \overline{62}$	0	$105600_2 = \chi_{79}, \varphi_{73}$
	64	0	$123200_1 = \chi_{80}, \varphi_{74}$
	65	0	$133056_1 = \chi_{81}, \varphi_{75}$
	66	0	$146432_1 = \chi_{82}, \varphi_{76}$
	67	0	$146432_2 = \chi_{83}, \varphi_{77}$
	68	0	$228800_1 = \chi_{84}, \varphi_{78}$
	69	0	$320320_2 = \chi_{87}, \varphi_{81}$
	70	0	$320320_3 = \chi_{88}, \varphi_{82}$
	71	0	$400400_5 = \chi_{89}, \varphi_{83}$
	72	0	$400400_6 = \chi_{90}, \varphi_{84}$
	73	0	$480480_1 = \chi_{93}, \varphi_{87}$
	74	0	$480480_2 = \chi_{94}, \varphi_{88}$
	75	0	$686400_1 = \chi_{95}, \varphi_{89}$
	76	0	$686400_2 = \chi_{96}, \varphi_{90}$
	77	0	$915200_1 = \chi_{97}, \varphi_{91}$
	78	0	$915200_2 = \chi_{98}, \varphi_{92}$
	79	0	$1029600_1 = \chi_{99}, \varphi_{93}$
	80	0	$1201200_2 = \chi_{100}, \varphi_{94}$

	blocks	defect	matrix
	81	0	$1201200_3 = \chi_{101}, \varphi_{95}$
	82	0	$1297296_1 = \chi_{102}, \varphi_{96}$
	83	0	$1297296_2 = \chi_{103}, \varphi_{97}$
	84	0	$1441792_2 = \chi_{104}, \varphi_{98}$
	85	0	$1663200_1 = \chi_{105}, \varphi_{99}$
	86	0	$1663200_2 = \chi_{106}, \varphi_{100}$
	87	0	$2196480_1 = \chi_{107}, \varphi_{103}$
	88	0	$2196480_2 = \chi_{108}, \varphi_{104}$
	89	0	$2402400_2 = \chi_{111}, \varphi_{105}$
	90	0	$2402400_3 = \chi_{112}, \varphi_{106}$
3.G :	91	1	7×5
	92 = 91*		
	93	0	$7722_1 = \chi_{116}, \varphi_{108}$
	94 = 93*		
	95	0	$12474_1 = \chi_{117}, \varphi_{109}$
	96 = 95*		
	97	0	$12474_3 = \chi_{118}, \varphi_{110}$
	98 = 97*		
	99	0	$19305_1 = \chi_{119}, \varphi_{111}$
	100 = 99*		
	101	1	7×5
	102 = 101*		
	103	0	$27027_1 = \chi_{121}, \varphi_{113}$
	104 = 103*		
	105	0	$51975_1 = \chi_{123}, \varphi_{115}$
	106 = 105*		
	107	0	$54054_1 = \chi_{124}, \varphi_{116}$
	108 = 107*		
	109	0	$96525_1 = \chi_{126}, \varphi_{118}$
	110 = 109*		
	111	0	$123552_1 = \chi_{127}, \varphi_{119}$
	112 = 111*		
	113	0	$237600_1 = \chi_{129}, \varphi_{121}$
	114 = 113*		
	115	0	$289575_2 = \chi_{130}, \varphi_{122}$
	116 = 115*		
	117	0	$360855_2 = \chi_{131}, \varphi_{124}$
	118 = 117*		
	119	0	$386100_1 = \chi_{134}, \varphi_{125}$
	120 = 119*		

	blocks	defect	matrix
	121	0	$405405_1 = \chi_{135}, \varphi_{126}$
	$122 = 121^*$		
	123	0	$405405_3 = \chi_{136}, \varphi_{127}$
	$124 = 123^*$		
	125	0	$432432_1 = \chi_{137}, \varphi_{128}$
	$126 = 125^*$		
	127	0	$494208_1 = \chi_{138}, \varphi_{129}$
	$128 = 127^*$		
	129	0	$577368_2 = \chi_{139}, \varphi_{130}$
	$130 = 129^*$		
	131	0	$608256_1 = \chi_{140}, \varphi_{131}$
	$132 = 131^*$		
	133	0	$675675_2 = \chi_{141}, \varphi_{132}$
	$134 = 133^*$		
	135	0	$675675_4 = \chi_{142}, \varphi_{133}$
	$136 = 135^*$		
	137	0	$772200_1 = \chi_{143}, \varphi_{134}$
	$138 = 137^*$		
	139	0	$938223_2 = \chi_{145}, \varphi_{136}$
	$140 = 139^*$		
	141	0	$997920_1 = \chi_{146}, \varphi_{137}$
	$142 = 141^*$		
	143	0	$1235520_1 = \chi_{147}, \varphi_{138}$
	$144 = 143^*$		
	145	0	$1297296_3 = \chi_{148}, \varphi_{139}$
	$146 = 145^*$		
	$147 = \overline{146}$	0	$1297296_5 = \chi_{149}, \varphi_{140}$
	$148 = 147^*$		
	149	0	$1351350_1 = \chi_{150}, \varphi_{141}$
	$150 = 149^*$		
	151	0	$1351350_3 = \chi_{151}, \varphi_{142}$
	$152 = 151^*$		
	153	0	$1351350_5 = \chi_{152}, \varphi_{143}$
	$154 = 153^*$		
	155	0	$1351350_7 = \chi_{153}, \varphi_{144}$
	$156 = 155^*$		
	157	0	$1621620_1 = \chi_{154}, \varphi_{145}$
	$158 = 157^*$		
	159	0	$1729728_1 = \chi_{157}, \varphi_{149}$
	$160 = 159^*$		

	blocks	defect	matrix
	161	0	$1853280_1 = \chi_{159}, \varphi_{150}$
	162 = 161*		
	163	0	$1876446_2 = \chi_{160}, \varphi_{151}$
	164 = 163*		
	165	0	$3088800_1 = \chi_{164}, \varphi_{152}$
	166 = 165*		
6.G :	167	1	7×5
	168 = 167*		
	169	1	7×5
	170 = 169*		
	171	0	$61776_1 = \chi_{167}, \varphi_{155}$
	172 = 171*		
	173	0	$61776_3 = \chi_{168}, \varphi_{156}$
	174 = 173*		
	175	0	$71280_1 = \chi_{169}, \varphi_{157}$
	176 = 175*		
	177	0	$71280_3 = \chi_{170}, \varphi_{158}$
	178 = 177*		
	179	0	$123552_3 = \chi_{173}, \varphi_{161}$
	180 = 179*		
	181	0	$308880_1 = \chi_{174}, \varphi_{164}$
	182 = 181*		
	183	0	$308880_3 = \chi_{175}, \varphi_{165}$
	184 = 183*		
	185	0	$432432_3 = \chi_{182}, \varphi_{168}$
	186 = 185*		
	187	0	$432432_5 = \chi_{183}, \varphi_{169}$
	188 = 187*		
	189	0	$1235520_3 = \chi_{188}, \varphi_{172}$
	190 = 189*		
	191	0	$1235520_5 = \chi_{189}, \varphi_{173}$
	192 = 191*		
	193	0	$1729728_3 = \chi_{190}, \varphi_{174}$
	194 = 193*		
	195	0	$1729728_5 = \chi_{191}, \varphi_{175}$
	196 = 195*		
	197	0	$1796256_1 = \chi_{192}, \varphi_{176}$
	198 = 197*		
	199	0	$1796256_3 = \chi_{193}, \varphi_{177}$
	200 = 199*		

	blocks	defect	matrix
	201	0	$2594592_1 = \chi_{194}, \varphi_{178}$
	202 = 201*		
	203	0	$2965248_1 = \chi_{195}, \varphi_{179}$
	204 = 203*		
	205	0	$2965248_3 = \chi_{196}, \varphi_{180}$
	206 = 205*		
	207	0	$3088800_3 = \chi_{197}, \varphi_{181}$
	208 = 207*		
	209	0	$3088800_5 = \chi_{198}, \varphi_{182}$
	210 = 209*		

Block 1:	φ_1	φ_9	φ_{40}	φ_{52}	φ_{53}	
$1_1 = \chi_1$	1	.	.	.	.	$\varphi_1 = 1_1$
$13650_1 = \chi_9$	1	1	.	.	.	$\varphi_9 = 13649_1$
$582400_1 = \chi_{40}$	.	.	1	.	.	$\varphi_{40} = 582400_1$
$582400_2 = \chi_{41}$	.	.	1	.	.	$\varphi_{52} = 1208753_1$
$1360800_1 = \chi_{54}$	.	1	.	.	1	$\varphi_{53} = 1347151_1$
$1791153_1 = \chi_{57}$	.	.	1	1	.	
$2555904_1 = \chi_{63}$	.	.	.	1	1	

Block 2:	φ_2	φ_{12}	φ_{47}	φ_{50}	φ_{56}	
$78_1 = \chi_2$	1	.	.	.	.	$\varphi_2 = 78_1$
$43680_1 = \chi_{12}$	1	1	.	.	.	$\varphi_{12} = 43602_1$
$852930_1 = \chi_{48}$	.	1	1	.	.	$\varphi_{47} = 809328_1$
$982800_1 = \chi_{51}$	.	.	.	1	.	$\varphi_{50} = 982800_1$
$982800_2 = \chi_{52}$	.	.	.	1	.	$\varphi_{56} = 1746576_1$
$2555904_2 = \chi_{64}$	.	.	1	.	1	
$2729376_1 = \chi_{65}$	.	.	.	1	1	

Block 55:	φ_{63}	φ_{66}	φ_{79}	φ_{86}	φ_{102}	
$2080_1 = \chi_{67}$	1	.	.	.	.	$\varphi_{63} = 2080_1$
$5824_2 = \chi_{70}$	.	1	.	.	.	$\varphi_{66} = 5824_2$
$5824_3 = \chi_{71}$	.	1	.	.	.	$\varphi_{79} = 233792_1$
$235872_1 = \chi_{85}$	1	.	1	.	.	$\varphi_{86} = 430976_2$
$436800_2 = \chi_{92}$	.	1	.	1	.	$\varphi_{102} = 2124928_2$
$2358720_2 = \chi_{110}$	.	.	1	.	1	
$2555904_4 = \chi_{114}$	.	.	.	1	1	

Block 56:	φ_{64}	φ_{65}	φ_{80}	φ_{85}	φ_{101}	
$2080_2 = \chi_{68}$	1	.	.	.	.	$\varphi_{64} = 2080_2$
$5824_1 = \chi_{69}$	.	1	.	.	.	$\varphi_{65} = 5824_1$
$5824_4 = \chi_{72}$	.	1	.	.	.	$\varphi_{80} = 233792_2$
$235872_2 = \chi_{86}$	1	.	1	.	.	$\varphi_{85} = 430976_1$
$436800_1 = \chi_{91}$	.	1	.	1	.	$\varphi_{101} = 2124928_1$
$2358720_1 = \chi_{109}$	.	.	1	.	1	
$2555904_3 = \chi_{113}$	.	.	.	1	1	

Blocks 91, 92:	φ_{107}	φ_{114}	φ_{135}	φ_{146}	φ_{147}	
$351_1 = \chi_{115}$	1	.	.	.	.	$\varphi_{107} = 351_1$
$42120_1 = \chi_{122}$	1	1	.	.	.	$\varphi_{114} = 41769_1$
$852930_2 = \chi_{144}$	.	.	1	.	.	$\varphi_{135} = 852930_1$
$1658475_1 = \chi_{155}$	.	1	.	.	1	$\varphi_{146} = 1112670_1$
$1658475_3 = \chi_{156}$	.	1	.	.	1	$\varphi_{147} = 1616706_1$
$1965600_1 = \chi_{161}$	.	.	1	1	.	
$2729376_2 = \chi_{163}$	.	.	.	1	1	

Blocks 101, 102:	φ_{112}	φ_{117}	φ_{120}	φ_{123}	φ_{148}	
$19656_1 = \chi_{120}$	1	.	.	.	.	$\varphi_{112} = 19656_1$
$61425_1 = \chi_{125}$	.	1	.	.	.	$\varphi_{117} = 61425_1$
$235872_3 = \chi_{128}$	.	1	1	.	.	$\varphi_{120} = 174447_1$
$368550_1 = \chi_{132}$	1	.	.	1	.	$\varphi_{123} = 348894_1$
$368550_3 = \chi_{133}$	1	.	.	1	.	$\varphi_{148} = 1616706_3$
$1791153_2 = \chi_{158}$	.	.	1	.	1	
$1965600_3 = \chi_{162}$	.	.	.	1	1	

Blocks 167, 168:	φ_{153}	φ_{159}	φ_{163}	φ_{167}	φ_{171}	
$1728_1 = \chi_{165}$	1	.	.	.	.	$\varphi_{153} = 1728_1$
$112320_1 = \chi_{171}$	1	1	.	.	.	$\varphi_{159} = 110592_1$
$314496_1 = \chi_{176}$	.	1	1	.	.	$\varphi_{163} = 203904_3$
$314496_7 = \chi_{179}$	.	1	1	.	.	$\varphi_{167} = 359424_3$
$359424_3 = \chi_{181}$	.	.	.	1	.	$\varphi_{171} = 763776_3$
$967680_3 = \chi_{185}$	.	.	1	.	1	
$1123200_3 = \chi_{187}$	.	.	.	1	1	

Blocks 169, 170:	φ_{154}	φ_{160}	φ_{162}	φ_{166}	φ_{170}	
$1728_3 = \chi_{166}$	1	.	.	.	.	$\varphi_{154} = 1728_3$
$112320_3 = \chi_{172}$	1	1	.	.	.	$\varphi_{160} = 110592_3$
$314496_3 = \chi_{177}$	.	1	1	.	.	$\varphi_{162} = 203904_1$
$314496_5 = \chi_{178}$	.	1	1	.	.	$\varphi_{166} = 359424_1$
$359424_1 = \chi_{180}$	.	.	.	1	.	$\varphi_{170} = 763776_1$
$967680_1 = \chi_{184}$	.	.	1	.	1	
$1123200_1 = \chi_{186}$	.	.	.	1	1	