

$A_{13} \pmod{13}$

	blocks	defect	matrix
$G :$	1	1	8×6
	2	0	$65_1 = \chi_3, \varphi_4$
	3	0	$208_1 = \chi_5, \varphi_6$
	4	0	$429_1 = \chi_7, \varphi_8$
	5	0	$429_2 = \chi_8, \varphi_9$
	6	0	$429_3 = \chi_9, \varphi_{10}$
	7	0	$572_1 = \chi_{13}, \varphi_{12}$
	8	0	$936_1 = \chi_{15}, \varphi_{13}$
	9	0	$1287_1 = \chi_{16}, \varphi_{14}$
	10	0	$1365_1 = \chi_{17}, \varphi_{15}$
	11	0	$1430_1 = \chi_{18}, \varphi_{16}$
	12	0	$2574_1 = \chi_{19}, \varphi_{17}$
	13	0	$2574_2 = \chi_{20}, \varphi_{18}$
	14	0	$2860_1 = \chi_{21}, \varphi_{19}$
	15	0	$3003_1 = \chi_{22}, \varphi_{20}$
	16	0	$3432_1 = \chi_{23}, \varphi_{21}$
	17	0	$3432_2 = \chi_{24}, \varphi_{22}$
	18	0	$3432_3 = \chi_{25}, \varphi_{23}$
	19	0	$3575_1 = \chi_{26}, \varphi_{24}$
	20	0	$3640_1 = \chi_{27}, \varphi_{25}$
	21	0	$4004_1 = \chi_{28}, \varphi_{26}$
	22	0	$4212_1 = \chi_{29}, \varphi_{27}$
	23	0	$4290_1 = \chi_{30}, \varphi_{28}$
	24	0	$4290_2 = \chi_{31}, \varphi_{29}$
	$25 = \overline{24}$	0	$4290_3 = \chi_{32}, \varphi_{30}$
	26	0	$5005_1 = \chi_{33}, \varphi_{31}$
	27	0	$5148_1 = \chi_{34}, \varphi_{32}$
	28	0	$5720_1 = \chi_{35}, \varphi_{33}$
	29	0	$6006_1 = \chi_{36}, \varphi_{34}$
	30	0	$6435_1 = \chi_{37}, \varphi_{35}$
	31	0	$6864_1 = \chi_{38}, \varphi_{36}$
	32	0	$7371_1 = \chi_{39}, \varphi_{37}$
	33	0	$7800_1 = \chi_{40}, \varphi_{38}$
	34	0	$8008_1 = \chi_{41}, \varphi_{39}$
	$35 = \overline{34}$	0	$8008_2 = \chi_{42}, \varphi_{40}$
	36	0	$8580_1 = \chi_{43}, \varphi_{41}$
	37	0	$9009_1 = \chi_{44}, \varphi_{42}$
	38	0	$9360_1 = \chi_{45}, \varphi_{43}$
	39	0	$10296_1 = \chi_{46}, \varphi_{44}$
	40	0	$11440_1 = \chi_{47}, \varphi_{45}$

	blocks	defect	matrix
	41	0	11583 ₁ = χ_{48}, φ_{46}
	42	0	12012 ₁ = χ_{49}, φ_{47}
	43	0	12012 ₂ = χ_{50}, φ_{48}
	44	0	12870 ₁ = χ_{51}, φ_{49}
	45	0	15015 ₁ = χ_{52}, φ_{50}
	46	0	17160 ₁ = χ_{53}, φ_{51}
	47	0	20592 ₁ = χ_{54}, φ_{52}
	48	0	21450 ₁ = χ_{55}, φ_{53}
2.G :	49	1	8 × 6
	50	0	2496 ₁ = χ_{60}, φ_{57}
	51 = $\overline{50}$	0	2496 ₂ = χ_{61}, φ_{58}
	52	0	4576 ₁ = χ_{63}, φ_{61}
	53	0	9152 ₁ = χ_{66}, φ_{63}
	54	0	9152 ₂ = χ_{67}, φ_{64}
	55 = $\overline{54}$	0	9152 ₃ = χ_{68}, φ_{65}
	56	0	9152 ₄ = χ_{69}, φ_{66}
	57 = $\overline{56}$	0	9152 ₅ = χ_{70}, φ_{67}
	58	0	11232 ₁ = χ_{72}, φ_{68}
	59 = $\overline{58}$	0	11232 ₂ = χ_{73}, φ_{69}
	60	0	11232 ₃ = χ_{74}, φ_{70}
	61 = $\overline{60}$	0	11232 ₄ = χ_{75}, φ_{71}
	62	0	13728 ₁ = χ_{76}, φ_{72}
	63	0	13728 ₂ = χ_{77}, φ_{73}
	64 = $\overline{63}$	0	13728 ₃ = χ_{78}, φ_{74}
	65	0	16016 ₁ = χ_{79}, φ_{75}
	66 = $\overline{65}$	0	16016 ₂ = χ_{80}, φ_{76}
	67	0	20800 ₁ = χ_{81}, φ_{77}
	68 = $\overline{67}$	0	20800 ₂ = χ_{82}, φ_{78}

Block 1:	φ_1	φ_2	φ_3	φ_5	φ_7	φ_{11}	
$1_1 = \chi_1$	1	.	.	.	.	.	$\varphi_1 = 1_1$
$12_1 = \chi_2$	1	1	.	.	.	.	$\varphi_2 = 11_1$
$66_1 = \chi_4$	.	1	1	.	.	.	$\varphi_3 = 55_1$
$220_1 = \chi_6$	.	.	1	1	.	.	$\varphi_5 = 165_1$
$462_1 = \chi_{10}$	.	.	.	.	.	1	$\varphi_7 = 330_1$
$462_2 = \chi_{11}$	.	.	.	.	.	1	$\varphi_{11} = 462_1$
$495_1 = \chi_{12}$	.	.	.	1	1	.	
$792_1 = \chi_{14}$	.	.	.	.	1	1	

Block 49:	φ_{54}	φ_{55}	φ_{56}	φ_{59}	φ_{60}	φ_{62}
$32_1 = \chi_{56}$	1	.	.	.	.	.
$32_2 = \chi_{57}$	1	.	.	.	.	.
$352_1 = \chi_{58}$	1	1	.	.	.	.
$1728_1 = \chi_{59}$	.	1	1	.	.	.
$4224_1 = \chi_{62}$	.	.	.	.	1	.
$4928_1 = \chi_{64}$	.	.	1	1	.	.
$8800_1 = \chi_{65}$	.	.	.	1	.	1
$9504_1 = \chi_{71}$	.	.	.	.	1	1

$$\begin{aligned} \varphi_{54} &= 32_1 \\ \varphi_{55} &= 320_1 \\ \varphi_{56} &= 1408_1 \\ \varphi_{59} &= 3520_1 \\ \varphi_{60} &= 4224_1 \\ \varphi_{62} &= 5280_1 \end{aligned}$$