

$L_4(3) \pmod{13}$

	blocks	defect	matrix
$G :$	1	1	7×3
	2	0	$26_1 = \chi_2, \varphi_2$
	3	0	$26_2 = \chi_3, \varphi_3$
	4	0	$39_1 = \chi_4, \varphi_4$
	5	0	$52_1 = \chi_5, \varphi_5$
	6	0	$65_1 = \chi_6, \varphi_6$
	7	0	$65_2 = \chi_7, \varphi_7$
	8	0	$234_1 = \chi_9, \varphi_9$
	9	0	$234_2 = \chi_{10}, \varphi_{10}$
	10	0	$260_1 = \chi_{11}, \varphi_{11}$
	11	0	$260_2 = \chi_{12}, \varphi_{12}$
	12	0	$260_3 = \chi_{13}, \varphi_{13}$
	13	0	$351_1 = \chi_{14}, \varphi_{14}$
	14	0	$390_1 = \chi_{15}, \varphi_{15}$
	15	0	$416_1 = \chi_{16}, \varphi_{16}$
	16	0	$416_2 = \chi_{17}, \varphi_{17}$
	17	0	$416_3 = \chi_{18}, \varphi_{18}$
	$18 = \overline{17}$	0	$416_4 = \chi_{19}, \varphi_{19}$
	19	0	$468_1 = \chi_{20}, \varphi_{20}$
	20	0	$585_1 = \chi_{21}, \varphi_{21}$
	21	0	$585_2 = \chi_{22}, \varphi_{22}$
	22	0	$780_1 = \chi_{28}, \varphi_{24}$
	23	0	$1040_1 = \chi_{29}, \varphi_{25}$
$2.G :$	24	1	7×3
	25	0	$208_1 = \chi_{31}, \varphi_{27}$
	$26 = \overline{25}$	0	$208_2 = \chi_{32}, \varphi_{28}$
	27	0	$208_3 = \chi_{33}, \varphi_{29}$
	$28 = \overline{27}$	0	$208_4 = \chi_{34}, \varphi_{30}$
	29	0	$260_4 = \chi_{35}, \varphi_{31}$
	$30 = \overline{29}$	0	$260_5 = \chi_{36}, \varphi_{32}$
	31	0	$416_5 = \chi_{37}, \varphi_{33}$
	$32 = \overline{31}$	0	$416_6 = \chi_{38}, \varphi_{34}$
	33	0	$416_7 = \chi_{39}, \varphi_{35}$
	$34 = \overline{33}$	0	$416_8 = \chi_{40}, \varphi_{36}$
	35	0	$520_1 = \chi_{42}, \varphi_{37}$
	36	0	$520_2 = \chi_{43}, \varphi_{38}$
	37	0	$520_3 = \chi_{44}, \varphi_{39}$
	38	0	$780_2 = \chi_{49}, \varphi_{42}$
	$39 = \overline{38}$	0	$780_3 = \chi_{50}, \varphi_{43}$

Block 1:	φ_1	φ_8	φ_{23}
$1_1 = \chi_1$	1	.	.
$90_1 = \chi_8$	1	1	.
$640_1 = \chi_{23}$	.	.	1
$640_2 = \chi_{24}$	.	.	1
$640_3 = \chi_{25}$	.	.	1
$640_4 = \chi_{26}$	.	.	1
$729_1 = \chi_{27}$	.	1	1

$$\begin{aligned} \varphi_1 &= 1_1 \\ \varphi_8 &= 89_1 \\ \varphi_{23} &= 640_1 \end{aligned}$$

Block 24:	φ_{26}	φ_{40}	φ_{41}
$40_1 = \chi_{30}$	1	.	.
$480_1 = \chi_{41}$	1	1	.
$640_5 = \chi_{45}$	.	.	1
$640_6 = \chi_{46}$	.	.	1
$640_7 = \chi_{47}$	.	.	1
$640_8 = \chi_{48}$	.	.	1
$1080_1 = \chi_{51}$	.	1	1

$$\begin{aligned} \varphi_{26} &= 40_1 \\ \varphi_{40} &= 440_1 \\ \varphi_{41} &= 640_2 \end{aligned}$$