

$L_4(3).2_3 \pmod{13}$

	blocks	defect	matrix
$G :$	1	1	8×6
	2	0	$52_1 = \chi_{2+}, \varphi_{2+}$
	3	0	$39_1 = \chi_{4,0}, \varphi_{4,0}$
	4	0	$39_2 = \chi_{4,1}, \varphi_{4,1}$
	5	0	$52_2 = \chi_{5,0}, \varphi_{5,0}$
	6	0	$52_3 = \chi_{5,1}, \varphi_{5,1}$
	7	0	$130_1 = \chi_{6+}, \varphi_{6+}$
	8	0	$468_1 = \chi_{9+}, \varphi_{9+}$
	9	0	$520_1 = \chi_{11+}, \varphi_{11+}$
	10	0	$260_1 = \chi_{13,0}, \varphi_{13,0}$
	11	0	$260_2 = \chi_{13,1}, \varphi_{13,1}$
	12	0	$351_1 = \chi_{14,0}, \varphi_{14,0}$
	13	0	$351_2 = \chi_{14,1}, \varphi_{14,1}$
	14	0	$390_1 = \chi_{15,0}, \varphi_{15,0}$
	15	0	$390_2 = \chi_{15,1}, \varphi_{15,1}$
	16	0	$416_1 = \chi_{16,0}, \varphi_{16,0}$
	17	0	$416_2 = \chi_{16,1}, \varphi_{16,1}$
	18	0	$416_3 = \chi_{17,0}, \varphi_{17,0}$
	19	0	$416_4 = \chi_{17,1}, \varphi_{17,1}$

	blocks	defect	matrix	
	20	0	$832_1 = \chi_{18+}, \varphi_{18+}$	
	21	0	$468_2 = \chi_{20,0}, \varphi_{20,0}$	
	22	0	$468_3 = \chi_{20,1}, \varphi_{20,1}$	
	23	0	$1170_1 = \chi_{21+}, \varphi_{21+}$	
	24	0	$780_1 = \chi_{28,0}, \varphi_{24,0}$	
	25	0	$780_2 = \chi_{28,1}, \varphi_{24,1}$	
	26	0	$1040_1 = \chi_{29,0}, \varphi_{25,0}$	
	27	0	$1040_2 = \chi_{29,1}, \varphi_{25,1}$	
	$2.G :$	28	1	8×6
		29	0	$416_5 = \chi_{31+}, \varphi_{27+}$
$30 = \overline{29}$		0	$416_6 = \chi_{32+}, \varphi_{28+}$	
31		0	$520_2 = \chi_{35+}, \varphi_{31+}$	
32		0	$832_2 = \chi_{37+}, \varphi_{33+}$	
33		0	$832_3 = \chi_{39+}, \varphi_{35+}$	
34		0	$520_3 = \chi_{42,0}, \varphi_{37,0}$	
35		0	$520_4 = \chi_{42,1}, \varphi_{37,1}$	
36		0	$1040_3 = \chi_{43+}, \varphi_{38+}$	
37		0	$1560_1 = \chi_{49+}, \varphi_{42+}$	

Block 1:	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{8,0}$	$\varphi_{8,1}$	$\varphi_{23,0}$	$\varphi_{23,1}$	
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	$\varphi_{1,0} = 1_1$
$1_2 = \chi_{1,1}$	.	1	.	.	.	.	$\varphi_{1,1} = 1_2$
$90_1 = \chi_{8,0}$	1	.	1	.	.	.	$\varphi_{8,0} = 89_1$
$90_2 = \chi_{8,1}$	.	1	.	1	.	.	$\varphi_{8,1} = 89_2$
$1280_1 = \chi_{23+}$	.	.	.	.	1	1	$\varphi_{23,0} = 640_1$
$1280_2 = \chi_{25+}$	.	.	.	.	1	1	$\varphi_{23,1} = 640_2$
$729_1 = \chi_{27,0}$	.	.	1	.	1	.	
$729_2 = \chi_{27,1}$	.	.	.	1	.	1	

Block 28:	$\varphi_{26,0}$	$\varphi_{26,1}$	$\varphi_{40,0}$	$\varphi_{40,1}$	$\varphi_{41,0}$	$\varphi_{41,1}$	
$40_1 = \chi_{30,0}$	1	.	.	.	.	.	$\varphi_{26,0} = 40_1$
$40_2 = \chi_{30,1}$	.	1	.	.	.	.	$\varphi_{26,1} = 40_2$
$480_1 = \chi_{41,0}$	1	.	1	.	.	.	$\varphi_{40,0} = 440_1$
$480_2 = \chi_{41,1}$	.	1	.	1	.	.	$\varphi_{40,1} = 440_2$
$1280_3 = \chi_{45+}$	.	.	.	.	1	1	$\varphi_{41,0} = 640_3$
$1280_4 = \chi_{47+}$	.	.	.	.	1	1	$\varphi_{41,1} = 640_4$
$1080_1 = \chi_{51,0}$	.	.	.	1	.	1	
$1080_2 = \chi_{51,1}$	.	.	1	.	1	.	