

$L_4(3).2_2 \pmod{13}$

	blocks	defect	matrix
$G :$	1	1	8×6
	2	0	$26_1 = \chi_{2,0}, \varphi_{2,0}$
	3	0	$26_2 = \chi_{2,1}, \varphi_{2,1}$
	4	0	$26_3 = \chi_{3,0}, \varphi_{3,0}$
	5	0	$26_4 = \chi_{3,1}, \varphi_{3,1}$
	6	0	$39_1 = \chi_{4,0}, \varphi_{4,0}$
	7	0	$39_2 = \chi_{4,1}, \varphi_{4,1}$
	8	0	$52_1 = \chi_{5,0}, \varphi_{5,0}$
	9	0	$52_2 = \chi_{5,1}, \varphi_{5,1}$
	10	0	$65_1 = \chi_{6,0}, \varphi_{6,0}$
	11	0	$65_2 = \chi_{6,1}, \varphi_{6,1}$
	12	0	$65_3 = \chi_{7,0}, \varphi_{7,0}$
	13	0	$65_4 = \chi_{7,1}, \varphi_{7,1}$
	14	0	$234_1 = \chi_{9,0}, \varphi_{9,0}$
	15	0	$234_2 = \chi_{9,1}, \varphi_{9,1}$
	16	0	$234_3 = \chi_{10,0}, \varphi_{10,0}$
	17	0	$234_4 = \chi_{10,1}, \varphi_{10,1}$
	18	0	$260_1 = \chi_{11,0}, \varphi_{11,0}$
	19	0	$260_2 = \chi_{11,1}, \varphi_{11,1}$
	20	0	$260_3 = \chi_{12,0}, \varphi_{12,0}$
	21	0	$260_4 = \chi_{12,1}, \varphi_{12,1}$
	22	0	$260_5 = \chi_{13,0}, \varphi_{13,0}$
	23	0	$260_6 = \chi_{13,1}, \varphi_{13,1}$
	24	0	$351_1 = \chi_{14,0}, \varphi_{14,0}$
	25	0	$351_2 = \chi_{14,1}, \varphi_{14,1}$
	26	0	$390_1 = \chi_{15,0}, \varphi_{15,0}$
	27	0	$390_2 = \chi_{15,1}, \varphi_{15,1}$
	28	0	$416_1 = \chi_{16,0}, \varphi_{16,0}$

	blocks	defect	matrix
	29	0	$416_2 = \chi_{16,1}, \varphi_{16,1}$
	30	0	$416_3 = \chi_{17,0}, \varphi_{17,0}$
	31	0	$416_4 = \chi_{17,1}, \varphi_{17,1}$
	32	0	$832_1 = \chi_{18+}, \varphi_{18+}$
	33	0	$468_1 = \chi_{20,0}, \varphi_{20,0}$
	34	0	$468_2 = \chi_{20,1}, \varphi_{20,1}$
	35	0	$585_1 = \chi_{21,0}, \varphi_{21,0}$
	36	0	$585_2 = \chi_{21,1}, \varphi_{21,1}$
	37	0	$585_3 = \chi_{22,0}, \varphi_{22,0}$
	38	0	$585_4 = \chi_{22,1}, \varphi_{22,1}$
	39	0	$780_1 = \chi_{28,0}, \varphi_{24,0}$
	40	0	$780_2 = \chi_{28,1}, \varphi_{24,1}$
	41	0	$1040_1 = \chi_{29,0}, \varphi_{25,0}$
	42	0	$1040_2 = \chi_{29,1}, \varphi_{25,1}$
$2.G :$	43	1	8×6
	44	0	$416_5 = \chi_{31+}, \varphi_{27+}$
	45	0	$416_6 = \chi_{33+}, \varphi_{29+}$
	46	0	$520_1 = \chi_{35+}, \varphi_{31+}$
	47	0	$832_2 = \chi_{37+}, \varphi_{33+}$
	48	0	$832_3 = \chi_{39+}, \varphi_{35+}$
	49	0	$520_2 = \chi_{42,0}, \varphi_{37,0}$
	50	0	$520_3 = \chi_{42,1}, \varphi_{37,1}$
	51	0	$520_4 = \chi_{43,0}, \varphi_{38,0}$
	52	0	$520_5 = \chi_{43,1}, \varphi_{38,1}$
	53	0	$520_6 = \chi_{44,0}, \varphi_{39,0}$
	54	0	$520_7 = \chi_{44,1}, \varphi_{39,1}$
	55	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 43:	$\varphi_{26,0}$	$\varphi_{26,1}$	$\varphi_{40,0}$	$\varphi_{40,1}$	$\varphi_{41,0}$	$\varphi_{41,1}$	
$40_1 = \chi_{30,0}$	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	.	