

$L_4(3).2_2 \pmod{5}$

	blocks	defect	matrix
$G :$	1	1	5×4
	2	1	5×4
	3	1	5×4
	4	1	5×4
	5	1	5×4
	6	0	$65_1 = \chi_{6,0}, \varphi_{6,0}$
	7	0	$65_2 = \chi_{6,1}, \varphi_{6,1}$
	8	0	$65_3 = \chi_{7,0}, \varphi_{7,0}$
	9	0	$65_4 = \chi_{7,1}, \varphi_{7,1}$
	10	0	$90_1 = \chi_{8,0}, \varphi_{8,0}$
	11	0	$90_2 = \chi_{8,1}, \varphi_{8,1}$
	12	0	$260_1 = \chi_{11,0}, \varphi_{11,0}$
	13	0	$260_2 = \chi_{11,1}, \varphi_{11,1}$
	14	0	$260_3 = \chi_{12,0}, \varphi_{12,0}$
	15	0	$260_4 = \chi_{12,1}, \varphi_{12,1}$
	16	0	$260_5 = \chi_{13,0}, \varphi_{13,0}$
	17	0	$260_6 = \chi_{13,1}, \varphi_{13,1}$
	18	0	$390_1 = \chi_{15,0}, \varphi_{15,0}$
	19	0	$390_2 = \chi_{15,1}, \varphi_{15,1}$
	20	0	$585_1 = \chi_{21,0}, \varphi_{18,0}$
	21	0	$585_2 = \chi_{21,1}, \varphi_{18,1}$
	22	0	$585_3 = \chi_{22,0}, \varphi_{19,0}$
	23	0	$585_4 = \chi_{22,1}, \varphi_{19,1}$

	blocks	defect	matrix	
	24	0	$1280_1 = \chi_{23+}, \varphi_{20+}$	
	25	0	$1280_2 = \chi_{25+}, \varphi_{22+}$	
	26	0	$780_1 = \chi_{28,0}, \varphi_{24,0}$	
	27	0	$780_2 = \chi_{28,1}, \varphi_{24,1}$	
	28	0	$1040_1 = \chi_{29,0}, \varphi_{25,0}$	
	29	0	$1040_2 = \chi_{29,1}, \varphi_{25,1}$	
	$2.G :$	30	0	$40_1 = \chi_{30,0}, \varphi_{26,0}$
		31	0	$40_2 = \chi_{30,1}, \varphi_{26,1}$
		32	1	4×2
33		0	$520_1 = \chi_{35+}, \varphi_{31+}$	
34		0	$480_1 = \chi_{41,0}, \varphi_{33,0}$	
35		0	$480_2 = \chi_{41,1}, \varphi_{33,1}$	
36		0	$520_2 = \chi_{42,0}, \varphi_{34,0}$	
37		0	$520_3 = \chi_{42,1}, \varphi_{34,1}$	
38		0	$520_4 = \chi_{43,0}, \varphi_{35,0}$	
39		0	$520_5 = \chi_{43,1}, \varphi_{35,1}$	
40		0	$520_6 = \chi_{44,0}, \varphi_{36,0}$	
41		0	$520_7 = \chi_{44,1}, \varphi_{36,1}$	
42		0	$1280_3 = \chi_{45+}, \varphi_{37+}$	
43		0	$1280_4 = \chi_{47+}, \varphi_{39+}$	
44		0	$1560_1 = \chi_{49+}, \varphi_{41+}$	
45		0	$1080_1 = \chi_{51,0}, \varphi_{43,0}$	
46		0	$1080_2 = \chi_{51,1}, \varphi_{43,1}$	

Block 1:	$\varphi_{1,0}$	$\varphi_{4,0}$	$\varphi_{14,1}$	$\varphi_{16,1}$
$1_1 = \chi_{1,0}$	1	.	.	.
$39_1 = \chi_{4,0}$	1	1	.	.
$351_2 = \chi_{14,1}$	.	1	1	.
$416_2 = \chi_{16,1}$	.	.	.	1
$729_2 = \chi_{27,1}$	.	.	1	1

$$\begin{aligned} \varphi_{1,0} &= 1_1 \\ \varphi_{4,0} &= 38_1 \\ \varphi_{14,1} &= 313_2 \\ \varphi_{16,1} &= 416_2 \end{aligned}$$

Block 2:	$\varphi_{1,1}$	$\varphi_{4,1}$	$\varphi_{14,0}$	$\varphi_{16,0}$
$1_2 = \chi_{1,1}$	1	.	.	.
$39_2 = \chi_{4,1}$	1	1	.	.
$351_1 = \chi_{14,0}$	.	1	1	.
$416_1 = \chi_{16,0}$	.	.	.	1
$729_1 = \chi_{27,0}$	.	.	1	1

$$\begin{aligned} \varphi_{1,1} &= 1_2 \\ \varphi_{4,1} &= 38_2 \\ \varphi_{14,0} &= 313_1 \\ \varphi_{16,0} &= 416_1 \end{aligned}$$

Block 3:	$\varphi_{2,0}$	$\varphi_{3,1}$	$\varphi_{9,1}$	$\varphi_{10,0}$	
$26_1 = \chi_{2,0}$	1	.	.	.	$\varphi_{2,0} = 26_1$
$26_4 = \chi_{3,1}$	.	1	.	.	$\varphi_{3,1} = 26_4$
$234_2 = \chi_{9,1}$	.	1	1	.	$\varphi_{9,1} = 208_2$
$234_3 = \chi_{10,0}$	1	.	.	1	$\varphi_{10,0} = 208_3$
$416_3 = \chi_{17,0}$	.	.	1	1	

Block 4:	$\varphi_{2,1}$	$\varphi_{3,0}$	$\varphi_{9,0}$	$\varphi_{10,1}$	
$26_2 = \chi_{2,1}$	1	.	.	.	$\varphi_{2,1} = 26_2$
$26_3 = \chi_{3,0}$	.	1	.	.	$\varphi_{3,0} = 26_3$
$234_1 = \chi_{9,0}$	.	1	1	.	$\varphi_{9,0} = 208_1$
$234_4 = \chi_{10,1}$	1	.	.	1	$\varphi_{10,1} = 208_4$
$416_4 = \chi_{17,1}$	.	.	1	1	

Block 5:	$\varphi_{5,0}$	$\varphi_{5,1}$	$\varphi_{17,0}$	$\varphi_{17,1}$	
$52_1 = \chi_{5,0}$	1	.	.	.	$\varphi_{5,0} = 52_1$
$52_2 = \chi_{5,1}$	.	1	.	.	$\varphi_{5,1} = 52_2$
$832_1 = \chi_{18+}$	.	.	1	1	$\varphi_{17,0} = 416_3$
$468_1 = \chi_{20,0}$	1	.	1	.	$\varphi_{17,1} = 416_4$
$468_2 = \chi_{20,1}$	.	1	.	1	

Block 32:	φ_{27+}	φ_{29+}	
$416_5 = \chi_{31+}$	1	.	$\varphi_{27+} = 416_5$
$416_6 = \chi_{33+}$	.	1	$\varphi_{29+} = 416_6$
$832_2 = \chi_{37+}$	1	1	
$832_3 = \chi_{39+}$	1	1	