

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

	blocks	defect	matrix
$G :$	1	6	32×19
	2	0	$729_1 = \chi_{27,0}, \varphi_{15,0}$
	3	0	$729_2 = \chi_{27,1}, \varphi_{15,1}$
$2.G :$	4	6	17×6

Block 1:	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{2,0}$	$\varphi_{2,1}$	φ_{3+}	$\varphi_{5,0}$	$\varphi_{5,1}$	$\varphi_{6,0}$	$\varphi_{6,1}$	$\varphi_{7,0}$	$\varphi_{7,1}$	φ_{8+}	$\varphi_{10,0}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	.	1	.	.	.	.	.	.	.	.	.	.	.
$52_1 = \chi_{2+}$	1	1	1	1	.	.	.	1	1	.	.	.	.
$39_1 = \chi_{4,0}$	.	.	.	.	1	.	.	1	.	.	.	.	.
$39_2 = \chi_{4,1}$	.	.	.	.	1	.	.	.	1	.	.	.	.
$52_2 = \chi_{5,0}$	1	1	1	.	.	.	.	.	.	.	1	.	.
$52_3 = \chi_{5,1}$	1	1	.	1	.	.	.	.	.	1	.	.	.
$130_1 = \chi_{6+}$	.	.	1	1	.	1	1	.	.	1	1	.	.
$90_1 = \chi_{8,0}$	.	2	.	.	.	.	.	1	.	.	.	.	1
$90_2 = \chi_{8,1}$	2	.	.	.	.	.	.	.	1	.	.	.	.
$468_1 = \chi_{9+}$	2	2	1	1	2	2	2	1	1	2	2	.	1
$520_1 = \chi_{11+}$	.	.	1	1	2	1	1	1	1	1	1	.	.
$260_1 = \chi_{13,0}$	2	1	1	1	1	2	.	1	1	1	1	.	1
$260_2 = \chi_{13,1}$	1	2	1	1	1	.	2	1	1	1	1	.	.
$351_1 = \chi_{14,0}$	.	.	.	.	.	2	.	.	.	.	.	.	1
$351_2 = \chi_{14,1}$	.	.	.	.	.	.	2	.	.	.	.	.	.
$390_1 = \chi_{15,0}$	1	.	.	.	2	1	.	.	.	1	1	1	.
$390_2 = \chi_{15,1}$	.	1	.	.	2	.	1	.	.	1	1	1	.
$416_1 = \chi_{16,0}$	2	1	1	1	1	2	.	1	1	1	1	.	1
$416_2 = \chi_{16,1}$	1	2	1	1	1	.	2	1	1	1	1	.	.
$416_3 = \chi_{17,0}$	1	1	2	1	1	.	.	1	1	1	.	.	.
$416_4 = \chi_{17,1}$	1	1	1	2	1	.	.	1	1	.	1	.	.
$832_1 = \chi_{18+}$	.	.	.	.	3	1	1	.	.	1	1	1	.
$468_2 = \chi_{20,0}$	.	.	.	.	2	.	.	.	.	.	1	1	.
$468_3 = \chi_{20,1}$	.	.	.	.	2	.	.	.	.	1	.	1	.
$1170_1 = \chi_{21+}$	1	1	2	2	4	.	.	2	2	1	1	.	.
$1280_1 = \chi_{23+}$	1	1	2	2	5	.	.	2	2	1	1	1	.
$1280_2 = \chi_{25+}$	2	2	1	1	4	3	3	1	1	3	3	1	1
$780_1 = \chi_{28,0}$	.	1	.	.	3	2	1	1	.	1	1	1	1
$780_2 = \chi_{28,1}$	1	.	.	.	3	1	2	.	1	1	1	1	.
$1040_1 = \chi_{29,0}$	1	1	1	2	4	1	1	1	1	2	2	1	.
$1040_2 = \chi_{29,1}$	1	1	2	1	4	1	1	1	1	2	2	1	.

(Block 1:)	$\varphi_{10,1}$	φ_{11+}	$\varphi_{13,0}$	$\varphi_{13,1}$	$\varphi_{14,0}$	$\varphi_{14,1}$	
$1_1 = \chi_{1,0}$	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	.	.	.	.	.	.
$52_1 = \chi_{2+}$	.	.	.	.	.	.
$39_1 = \chi_{4,0}$	.	.	.	.	.	.
$39_2 = \chi_{4,1}$	.	.	.	.	.	.
$52_2 = \chi_{5,0}$	.	.	.	.	.	.
$52_3 = \chi_{5,1}$	.	.	.	.	.	.	$\varphi_{1,0} = 1_1$
$130_1 = \chi_{6+}$	.	.	.	.	.	.	$\varphi_{1,1} = 1_2$
$90_1 = \chi_{8,0}$	.	.	.	.	.	.	$\varphi_{2,0} = 6_1$
$90_2 = \chi_{8,1}$	1	.	.	.	.	.	$\varphi_{2,1} = 6_2$
$468_1 = \chi_{9+}$	1	.	.	.	.	.	$\varphi_{3+} = 20_1$
$520_1 = \chi_{11+}$	.	.	1	1	.	.	$\varphi_{5,0} = 15_1$
$260_1 = \chi_{13,0}$	.	.	.	.	.	.	$\varphi_{5,1} = 15_2$
$260_2 = \chi_{13,1}$	1	.	.	.	.	.	$\varphi_{6,0} = 19_1$
$351_1 = \chi_{14,0}$	.	1	.	.	.	.	$\varphi_{6,1} = 19_2$
$351_2 = \chi_{14,1}$	1	1	.	.	.	.	$\varphi_{7,0} = 44_1$
$390_1 = \chi_{15,0}$	.	.	.	1	.	.	$\varphi_{7,1} = 44_2$
$390_2 = \chi_{15,1}$	.	.	1	.	.	.	$\varphi_{8+} = 90_1$
$416_1 = \chi_{16,0}$	.	.	.	1	.	.	$\varphi_{10,0} = 69_1$
$416_2 = \chi_{16,1}$	1	.	1	.	.	.	$\varphi_{10,1} = 69_2$
$416_3 = \chi_{17,0}$	.	.	.	.	.	1	$\varphi_{11+} = 252_1$
$416_4 = \chi_{17,1}$	.	.	.	.	1	.	$\varphi_{13,0} = 156_1$
$832_1 = \chi_{18+}$	.	1	1	1	.	.	$\varphi_{13,1} = 156_2$
$468_2 = \chi_{20,0}$	.	.	.	.	1	.	$\varphi_{14,0} = 294_1$
$468_3 = \chi_{20,1}$	.	.	.	.	.	1	$\varphi_{14,1} = 294_2$
$1170_1 = \chi_{21+}$	.	.	1	1	1	1	
$1280_1 = \chi_{23+}$	.	.	1	1	1	1	
$1280_2 = \chi_{25+}$	1	1	1	1	.	.	
$780_1 = \chi_{28,0}$	.	1	.	1	.	.	
$780_2 = \chi_{28,1}$	1	1	1	.	.	.	
$1040_1 = \chi_{29,0}$	.	.	1	1	1	.	
$1040_2 = \chi_{29,1}$	.	.	1	1	.	1	

Block 4:	φ_{16+}	φ_{18+}	φ_{20+}	φ_{22+}	φ_{24+}	φ_{26+}	
$40_1 = \chi_{30,0}$	1	1	.	.	.	.
$40_2 = \chi_{30,1}$	1	1	.	.	.	.
$416_5 = \chi_{31+}$	4	1	.	1	1	.	
$416_6 = \chi_{32+}$	4	1	.	1	1	.	
$520_2 = \chi_{35+}$	4	2	1	1	1	.	
$832_2 = \chi_{37+}$	5	2	2	1	2	.	$\varphi_{16+} = 8_1$
$832_3 = \chi_{39+}$	2	3	.	.	.	1	$\varphi_{18+} = 32_1$
$480_1 = \chi_{41,0}$	3	1	1	1	1	.	$\varphi_{20+} = 72_1$
$480_2 = \chi_{41,1}$	3	1	1	1	1	.	$\varphi_{22+} = 120_1$
$520_3 = \chi_{42,0}$	4	2	1	1	1	.	$\varphi_{24+} = 232_1$
$520_4 = \chi_{42,1}$	4	2	1	1	1	.	$\varphi_{26+} = 720_1$
$1040_3 = \chi_{43+}$	8	4	2	2	2	.	
$1280_3 = \chi_{45+}$	5	3	1	1	1	1	
$1280_4 = \chi_{47+}$	9	4	2	2	3	.	
$1560_1 = \chi_{49+}$	7	4	1	1	2	1	
$1080_1 = \chi_{51,0}$	4	3	.	.	1	1	
$1080_2 = \chi_{51,1}$	4	3	.	.	1	1	