

$L_4(3).2_3 \pmod{5}$

	blocks	defect	matrix		blocks	defect	matrix
$G :$	1	1	5×4		18	0	$1040_1 = \chi_{29,0}, \varphi_{25,0}$
	2	1	5×4		19	0	$1040_2 = \chi_{29,1}, \varphi_{25,1}$
	3	1	4×2				
	4	1	5×4	$2.G :$	20	0	$40_1 = \chi_{30,0}, \varphi_{26,0}$
	5	0	$130_1 = \chi_{6+}, \varphi_{6+}$		21	0	$40_2 = \chi_{30,1}, \varphi_{26,1}$
	6	0	$90_1 = \chi_{8,0}, \varphi_{8,0}$		22	1	4×2
	7	0	$90_2 = \chi_{8,1}, \varphi_{8,1}$		23	0	$520_2 = \chi_{35+}, \varphi_{31+}$
	8	0	$520_1 = \chi_{11+}, \varphi_{11+}$		24	0	$480_1 = \chi_{41,0}, \varphi_{33,0}$
	9	0	$260_1 = \chi_{13,0}, \varphi_{13,0}$		25	0	$480_2 = \chi_{41,1}, \varphi_{33,1}$
	10	0	$260_2 = \chi_{13,1}, \varphi_{13,1}$		26	0	$520_3 = \chi_{42,0}, \varphi_{34,0}$
	11	0	$390_1 = \chi_{15,0}, \varphi_{15,0}$		27	0	$520_4 = \chi_{42,1}, \varphi_{34,1}$
	12	0	$390_2 = \chi_{15,1}, \varphi_{15,1}$		28	0	$1040_3 = \chi_{43+}, \varphi_{35+}$
	13	0	$1170_1 = \chi_{21+}, \varphi_{18+}$		29	0	$1280_3 = \chi_{45+}, \varphi_{37+}$
	14	0	$1280_1 = \chi_{23+}, \varphi_{20+}$		30	0	$1280_4 = \chi_{47+}, \varphi_{39+}$
	15	0	$1280_2 = \chi_{25+}, \varphi_{22+}$		31	0	$1560_1 = \chi_{49+}, \varphi_{41+}$
	16	0	$780_1 = \chi_{28,0}, \varphi_{24,0}$		32	0	$1080_1 = \chi_{51,0}, \varphi_{43,0}$
	17	0	$780_2 = \chi_{28,1}, \varphi_{24,1}$		33	0	$1080_2 = \chi_{51,1}, \varphi_{43,1}$

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

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

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

$$\begin{aligned}
 \varphi_{1,1} &= 1_2 \\
 \varphi_{4,1} &= 38_2 \\
 \varphi_{14,0} &= 313_1 \\
 \varphi_{16,1} &= 416_3
 \end{aligned}$$

Block 3:	φ_{2+}	φ_{9+}		
$52_1 = \chi_{2+}$	1	.	$\varphi_{2+} =$	52_1
$468_1 = \chi_{9+}$	1	1	$\varphi_{9+} =$	416_1
$416_3 = \chi_{17,0}$	.	1		
$416_4 = \chi_{17,1}$	.	1		

Block 4:	$\varphi_{5,0}$	$\varphi_{5,1}$	$\varphi_{17,0}$	$\varphi_{17,1}$		
$52_2 = \chi_{5,0}$	1	.	.	.	$\varphi_{5,0} =$	52_2
$52_3 = \chi_{5,1}$	.	1	.	.	$\varphi_{5,1} =$	52_3
$832_1 = \chi_{18+}$	.	.	1	1	$\varphi_{17,0} =$	416_4
$468_2 = \chi_{20,0}$	1	.	1	.	$\varphi_{17,1} =$	416_5
$468_3 = \chi_{20,1}$	.	1	.	1		

Block 22:	φ_{27+}	φ_{28+}		
$416_5 = \chi_{31+}$	1	.	$\varphi_{27+} =$	416_6
$416_6 = \chi_{32+}$	.	1	$\varphi_{28+} =$	416_7
$832_2 = \chi_{37+}$	1	1		
$832_3 = \chi_{39+}$	1	1		