

$L_4(3).2_1 \pmod{5}$

	blocks	defect	matrix
$G :$	1	1	5×4
	2	1	5×4
	3	1	4×2
	4	1	4×2
	$5 = \overline{4}$	1	4×2
	6	0	$130_1 = \chi_{6+}, \varphi_{6+}$
	7	0	$90_1 = \chi_{8,0}, \varphi_{8,0}$
	8	0	$90_2 = \chi_{8,1}, \varphi_{8,1}$
	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	$390_1 = \chi_{15,0}, \varphi_{15,0}$
	13	0	$390_2 = \chi_{15,1}, \varphi_{15,1}$
	14	0	$1170_1 = \chi_{21+}, \varphi_{18+}$
	15	0	$640_1 = \chi_{23,0}, \varphi_{20,0}$
	16	0	$640_2 = \chi_{23,1}, \varphi_{20,1}$
	$17 = \overline{15}$	0	$640_3 = \chi_{24,0}, \varphi_{21,0}$
	$18 = \overline{16}$	0	$640_4 = \chi_{24,1}, \varphi_{21,1}$
	19	0	$640_5 = \chi_{25,0}, \varphi_{22,0}$
	20	0	$640_6 = \chi_{25,1}, \varphi_{22,1}$
	$21 = \overline{19}$	0	$640_7 = \chi_{26,0}, \varphi_{23,0}$
	$22 = \overline{20}$	0	$640_8 = \chi_{26,1}, \varphi_{23,1}$
	23	0	$780_1 = \chi_{28,0}, \varphi_{24,0}$
	24	0	$780_2 = \chi_{28,1}, \varphi_{24,1}$
	25	0	$1040_1 = \chi_{29,0}, \varphi_{25,0}$
	$26 = \overline{25}$	0	$1040_2 = \chi_{29,1}, \varphi_{25,1}$
$2.G :$	27	0	$40_1 = \chi_{30,0}, \varphi_{26,0}$
	28	0	$40_2 = \chi_{30,1}, \varphi_{26,1}$
	29	1	5×1
	$30 = \overline{29}$	1	5×1
	31	0	$260_3 = \chi_{35,0}, \varphi_{31,0}$
	32	0	$260_4 = \chi_{35,1}, \varphi_{31,1}$
	$33 = \overline{31}$	0	$260_5 = \chi_{36,0}, \varphi_{32,0}$
	$34 = \overline{32}$	0	$260_6 = \chi_{36,1}, \varphi_{32,1}$
	35	0	$480_1 = \chi_{41,0}, \varphi_{33,0}$
	36	0	$480_2 = \chi_{41,1}, \varphi_{33,1}$
	37	0	$520_2 = \chi_{42,0}, \varphi_{34,0}$
	$38 = \overline{37}$	0	$520_3 = \chi_{42,1}, \varphi_{34,1}$
	39	0	$1040_3 = \chi_{43+}, \varphi_{35+}$
	40	0	$640_9 = \chi_{45,0}, \varphi_{37,0}$

	blocks	defect	matrix
	41	0	$640_{10} = \chi_{45,1}, \varphi_{37,1}$
	$42 = \overline{40}$	0	$640_{11} = \chi_{46,0}, \varphi_{38,0}$
	$43 = \overline{41}$	0	$640_{12} = \chi_{46,1}, \varphi_{38,1}$
	44	0	$640_{13} = \chi_{47,0}, \varphi_{39,0}$
	45	0	$640_{14} = \chi_{47,1}, \varphi_{39,1}$
	$46 = \overline{44}$	0	$640_{15} = \chi_{48,0}, \varphi_{40,0}$
	$47 = \overline{45}$	0	$640_{16} = \chi_{48,1}, \varphi_{40,1}$
	48	0	$780_3 = \chi_{49,0}, \varphi_{41,0}$
	49	0	$780_4 = \chi_{49,1}, \varphi_{41,1}$
	$50 = \overline{48}$	0	$780_5 = \chi_{50,0}, \varphi_{42,0}$
	$51 = \overline{49}$	0	$780_6 = \chi_{50,1}, \varphi_{42,1}$
	52	0	$1080_1 = \chi_{51,0}, \varphi_{43,0}$
	53	0	$1080_2 = \chi_{51,1}, \varphi_{43,1}$

Block 1:	$\varphi_{1,0}$	$\varphi_{4,0}$	$\varphi_{14,0}$	$\varphi_{16,1}$	
$1_1 = \chi_{1,0}$	1	.	.	.	$\varphi_{1,0} = 1_1$
$39_1 = \chi_{4,0}$	1	1	.	.	$\varphi_{4,0} = 38_1$
$351_1 = \chi_{14,0}$	.	1	1	.	$\varphi_{14,0} = 313_1$
$416_2 = \chi_{16,1}$	.	.	.	1	$\varphi_{16,1} = 416_3$
$729_1 = \chi_{27,0}$	.	.	1	1	

Block 2:	$\varphi_{1,1}$	$\varphi_{4,1}$	$\varphi_{14,1}$	$\varphi_{16,0}$	
$1_2 = \chi_{1,1}$	1	.	.	.	$\varphi_{1,1} = 1_2$
$39_2 = \chi_{4,1}$	1	1	.	.	$\varphi_{4,1} = 38_2$
$351_2 = \chi_{14,1}$	.	1	1	.	$\varphi_{14,1} = 313_2$
$416_1 = \chi_{16,0}$	.	.	.	1	$\varphi_{16,0} = 416_2$
$729_2 = \chi_{27,1}$	.	.	1	1	

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:	$\varphi_{5,0}$	$\varphi_{17,0}$	
$52_2 = \chi_{5,0}$	1	.	$\varphi_{5,0} = 52_2$
$416_5 = \chi_{18,0}$	.	1	$\varphi_{17,0} = 416_4$
$416_8 = \chi_{19,1}$	.	1	
$468_2 = \chi_{20,0}$	1	1	

Block 5:	$\varphi_{5,1}$	$\varphi_{17,1}$	
$52_3 = \chi_{5,1}$	1	.	$\varphi_{5,1} = 52_3$
$416_6 = \chi_{18,1}$	.	1	$\varphi_{17,1} = 416_5$
$416_7 = \chi_{19,0}$	.	1	
$468_3 = \chi_{20,1}$	1	1	

Block 29:	φ_{27+}	
$416_9 = \chi_{31+}$	1	
$416_{13} = \chi_{38,0}$	1	$\varphi_{27+} = 416_6$
$416_{14} = \chi_{38,1}$	1	
$416_{15} = \chi_{39,0}$	1	
$416_{16} = \chi_{39,1}$	1	

Block 30:	φ_{28+}	
$416_{10} = \chi_{32+}$	1	
$416_{11} = \chi_{37,0}$	1	$\varphi_{28+} = 416_7$
$416_{12} = \chi_{37,1}$	1	
$416_{17} = \chi_{40,0}$	1	
$416_{18} = \chi_{40,1}$	1	