

## $L_3(4).6 \pmod{7}$

	blocks	defect	matrix
$G :$	1	1	$7 \times 6$
	2	1	$7 \times 6$
	$3 = \bar{2}$	1	$7 \times 6$
	4	0	$105_1 = \chi_{3,0+}, \varphi_{3,0+}$
	5	0	$105_2 = \chi_{3,1+}, \varphi_{3,1+}$
	6	0	$126_1 = \chi_{8,0+}, \varphi_{7,0+}$
	7	0	$126_2 = \chi_{8,1+}, \varphi_{7,1+}$
	$8 = \bar{7}$	0	$126_3 = \chi_{8,2+}, \varphi_{7,2+}$
$3.G :$	9	1	$5 \times 2$
	$10 = 9^*$		
	11	0	$21_1 = \chi_{35,0}, \varphi_{27,0}$
	12	0	$21_2 = \chi_{35,1}, \varphi_{27,1}$
	13	0	$21_3 = \chi_{35,2}, \varphi_{27,2}$
	14	0	$21_4 = \chi_{35,3}, \varphi_{27,3}$
	15	0	$21_5 = \chi_{35,4}, \varphi_{27,4}$
	16	0	$21_6 = \chi_{35,5}, \varphi_{27,5}$
	$17 = 11^*$		
	$18 = 16^*$		
	$19 = 15^*$		
	$20 = 14^*$		

	blocks	defect	matrix
	$21 = 13^*$		
	$22 = 12^*$		
	23	0	$126_4 = \chi_{38,0+}, \varphi_{28,0+}$
	24	0	$126_5 = \chi_{38,1+}, \varphi_{28,1+}$
	25	0	$126_6 = \chi_{38,2+}, \varphi_{28,2+}$
	$26 = 23^*$		
	$27 = 25^*$		
	$28 = 24^*$		
	29	0	$84_1 = \chi_{40,0}, \varphi_{30,0}$
	30	0	$84_2 = \chi_{40,1}, \varphi_{30,1}$
	31	0	$84_3 = \chi_{40,2}, \varphi_{30,2}$
	32	0	$84_4 = \chi_{40,3}, \varphi_{30,3}$
	33	0	$84_5 = \chi_{40,4}, \varphi_{30,4}$
	34	0	$84_6 = \chi_{40,5}, \varphi_{30,5}$
	$35 = 29^*$		
	$36 = 34^*$		
	$37 = 33^*$		
	$38 = 32^*$		
	$39 = 31^*$		
	$40 = 30^*$		

<b>Block 1:</b>	$\varphi_{1,0}$	$\varphi_{1,3}$	$\varphi_{2,0}$	$\varphi_{2,3}$	$\varphi_{6,0}$	$\varphi_{6,3}$	
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	$\varphi_{1,0} = 1_1$
$1_4 = \chi_{1,3}$	.	1	.	.	.	.	$\varphi_{1,3} = 1_4$
$20_1 = \chi_{2,0}$	.	1	1	.	.	.	$\varphi_{2,0} = 19_1$
$20_4 = \chi_{2,3}$	1	.	.	1	.	.	$\varphi_{2,3} = 19_4$
$90_1 = \chi_{6,0+}$	.	.	.	.	1	1	$\varphi_{6,0} = 45_1$
$64_1 = \chi_{10,0}$	.	.	1	.	1	.	$\varphi_{6,3} = 45_4$
$64_4 = \chi_{10,3}$	.	.	.	1	.	1	

<b>Block 2:</b>	$\varphi_{1,1}$	$\varphi_{1,4}$	$\varphi_{2,1}$	$\varphi_{2,4}$	$\varphi_{6,1}$	$\varphi_{6,4}$	
$1_2 = \chi_{1,1}$	1	.	.	.	.	.	$\varphi_{1,1} = 1_2$
$1_5 = \chi_{1,4}$	.	1	.	.	.	.	$\varphi_{1,4} = 1_5$
$20_2 = \chi_{2,1}$	.	1	1	.	.	.	$\varphi_{2,1} = 19_2$
$20_5 = \chi_{2,4}$	1	.	.	1	.	.	$\varphi_{2,4} = 19_5$
$90_2 = \chi_{6,1+}$	.	.	.	.	1	1	$\varphi_{6,1} = 45_2$
$64_2 = \chi_{10,1}$	.	.	1	.	1	.	$\varphi_{6,4} = 45_5$
$64_5 = \chi_{10,4}$	.	.	.	1	.	1	

<b>Block 3:</b>	$\varphi_{1,2}$	$\varphi_{1,5}$	$\varphi_{2,2}$	$\varphi_{2,5}$	$\varphi_{6,2}$	$\varphi_{6,5}$	
$1_3 = \chi_{1,2}$	1	.	.	.	.	.	$\varphi_{1,2} = 1_3$
$1_6 = \chi_{1,5}$	.	1	.	.	.	.	$\varphi_{1,5} = 1_6$
$20_3 = \chi_{2,2}$	.	1	1	.	.	.	$\varphi_{2,2} = 19_3$
$20_6 = \chi_{2,5}$	1	.	.	1	.	.	$\varphi_{2,5} = 19_6$
$90_3 = \chi_{6,2+}$	.	.	.	.	1	1	$\varphi_{6,2} = 45_3$
$64_3 = \chi_{10,2}$	.	.	1	.	1	.	$\varphi_{6,5} = 45_6$
$64_6 = \chi_{10,5}$	.	.	.	1	.	1	

<b>Blocks 9, 10:</b>	$\varphi_{24,0+}$	$\varphi_{24,1+}$	
$45_1 = \chi_{32,0+}$	1	.	
$45_2 = \chi_{32,1+}$	.	1	$\varphi_{24,0+} = 45_7$
$90_4 = \chi_{36,0+}$	1	1	$\varphi_{24,1+} = 45_8$
$90_5 = \chi_{36,1+}$	1	1	
$90_6 = \chi_{36,2+}$	1	1	