

$L_3(4) \pmod{7}$

	blocks	defect	matrix
$G :$	1	1	5×3
	2	0	$35_1 = \chi_3, \varphi_3$
	3	0	$35_2 = \chi_4, \varphi_4$
	4	0	$35_3 = \chi_5, \varphi_5$
	5	0	$63_1 = \chi_8, \varphi_7$
	6	0	$63_2 = \chi_9, \varphi_8$
$2.G :$	7	1	5×3
	8	0	$28_1 = \chi_{13}, \varphi_{11}$
	9	0	$28_2 = \chi_{14}, \varphi_{12}$
	10	0	$70_1 = \chi_{17}, \varphi_{14}$
$4_1.G :$	11	1	5×3
	$12 = 11^*$	0	$56_1 = \chi_{21}, \varphi_{17}$
	13	0	
	$14 = 13^*$	0	
$4_2.G :$	15	1	5×3
	$16 = 15^*$	0	$28_3 = \chi_{26}, \varphi_{20}$
	17	0	
	$18 = 17^*$	0	$28_5 = \chi_{27}, \varphi_{21}$
	$19 = 19^*$	0	
$3.G :$	21	1	5×3
	$22 = 21^*$	0	$21_1 = \chi_{35}, \varphi_{27}$
	23	0	
	$24 = 23^*$	0	

	blocks	defect	matrix
	25	0	$63_3 = \chi_{38}, \varphi_{28}$
	$26 = 25^*$	0	
	27	0	$63_5 = \chi_{39}, \varphi_{29}$
	$28 = 27^*$	0	
	29	0	$84_1 = \chi_{40}, \varphi_{30}$
	$30 = 29^*$	0	
$6.G :$	31	1	5×3
	$32 = 31^*$	0	$42_1 = \chi_{43}, \varphi_{33}$
	33	0	
	$34 = 33^*$	0	$42_3 = \chi_{44}, \varphi_{34}$
	$35 = 35^*$	0	
$12_1.G :$	37	1	5×3
	$38 = 37 * 5$	0	
	$39 = 37 * 7$	0	
	$40 = 37 * 11$	0	
$12_2.G :$	41	1	5×3
	$42 = 41 * 5$	0	
	$43 = 41 * 7$	0	
	$44 = 41 * 11$	0	
	45	0	$84_3 = \chi_{58}, \varphi_{42}$
	$46 = 45 * 5$	0	
	$47 = 45 * 7$	0	
	$48 = 45 * 11$	0	

Block 1:	φ_1	φ_2	φ_6	
$1_1 = \chi_1$	1	.	.	$\varphi_1 = 1_1$
$20_1 = \chi_2$	1	1	.	$\varphi_2 = 19_1$
$45_1 = \chi_6$	.	.	1	$\varphi_6 = 45_1$
$45_2 = \chi_7$	.	.	1	
$64_1 = \chi_{10}$	.	1	1	

Block 7:	φ_9	φ_{10}	φ_{13}	
$10_1 = \chi_{11}$	1	.	.	$\varphi_9 = 10_1$
$10_2 = \chi_{12}$	1	.	.	$\varphi_{10} = 26_1$
$36_1 = \chi_{15}$	1	1	.	$\varphi_{13} = 64_1$
$64_2 = \chi_{16}$	.	.	1	
$90_1 = \chi_{18}$	.	1	1	

Blocks 11, 12:	φ_{15}	φ_{16}	φ_{18}	
$8_1 = \chi_{19}$	1	.	.	$\varphi_{15} = 8_1$
$8_3 = \chi_{20}$	.	1	.	$\varphi_{16} = 8_3$
$64_3 = \chi_{22}$	.	.	1	$\varphi_{18} = 64_2$
$80_1 = \chi_{23}$	1	1	1	
$80_3 = \chi_{24}$	1	1	1	

Blocks 15, 16:	φ_{19}	φ_{22}	φ_{23}	
$20_2 = \chi_{25}$	1	.	.	$\varphi_{19} = 20_1$
$36_2 = \chi_{28}$	.	1	.	$\varphi_{22} = 36_1$
$64_3 = \chi_{29}$	1	.	1	$\varphi_{23} = 44_1$
$80_1 = \chi_{30}$	.	1	1	
$80_3 = \chi_{31}$	.	1	1	

Blocks 21, 22:	φ_{24}	φ_{25}	φ_{26}	
$15_1 = \chi_{32}$	1	.	.	$\varphi_{24} = 15_1$
$15_3 = \chi_{33}$	.	1	.	$\varphi_{25} = 15_3$
$15_5 = \chi_{34}$	.	.	1	$\varphi_{26} = 15_5$
$45_3 = \chi_{36}$	1	1	1	
$45_5 = \chi_{37}$	1	1	1	

Blocks 31, 32:	φ_{31}	φ_{32}	φ_{35}	
$6_1 = \chi_{41}$	1	.	.	$\varphi_{31} = 6_1$
$36_2 = \chi_{42}$	.	1	.	$\varphi_{32} = 36_1$
$60_1 = \chi_{45}$	1	.	1	$\varphi_{35} = 54_1$
$60_3 = \chi_{46}$	1	.	1	
$90_2 = \chi_{47}$	.	1	1	

Blocks 37, 38, 39, 40:	φ_{36}	φ_{37}	φ_{38}	
$24_1 = \chi_{48}$	1	.	.	$\varphi_{36} = 24_1$
$24_5 = \chi_{49}$	1	.	.	$\varphi_{37} = 48_1$
$48_1 = \chi_{50}$	.	1	.	$\varphi_{38} = 48_5$
$48_5 = \chi_{51}$	.	.	1	
$120_1 = \chi_{52}$	1	1	1	

Blocks 41, 42, 43, 44:	φ_{39}	φ_{40}	φ_{41}	
$36_6 = \chi_{53}$	.	1	.	$\varphi_{39} = 12_1$
$48_1 = \chi_{54}$	.	.	1	$\varphi_{40} = 36_5$
$48_5 = \chi_{55}$	1	1	.	$\varphi_{41} = 48_1$
$60_5 = \chi_{56}$	1	.	1	
$60_9 = \chi_{57}$	1	.	1	