

$L_3(9).2_2 \pmod{7}$

	blocks	defect	matrix
$G :$	1	1	7×6
	2	0	$91_1 = \chi_{3,0}, \varphi_{3,0}$
	3	0	$91_2 = \chi_{3,1}, \varphi_{3,1}$
	4	0	$182_1 = \chi_{4+}, \varphi_{4+}$
	5	0	$182_2 = \chi_{6+}, \varphi_{6+}$
	$6 = \overline{5}$	0	$182_3 = \chi_{7+}, \varphi_{7+}$
	7	1	5×2
	$8 = \overline{7}$	1	5×2
	9	1	5×2
	$10 = \overline{9}$	1	5×2
	11	0	$1456_1 = \chi_{40+}, \varphi_{15+}$
	12	0	$1456_2 = \chi_{42+}, \varphi_{17+}$
	13	0	$1456_3 = \chi_{44+}, \varphi_{19+}$
	$14 = \overline{13}$	0	$1456_4 = \chi_{45+}, \varphi_{20+}$
	15	0	$1456_5 = \chi_{48+}, \varphi_{23+}$
	$16 = \overline{15}$	0	$1456_6 = \chi_{49+}, \varphi_{24+}$
	17	0	$1456_7 = \chi_{52+}, \varphi_{27+}$
	$18 = \overline{17}$	0	$1456_8 = \chi_{53+}, \varphi_{28+}$
	19	0	$1456_9 = \chi_{56+}, \varphi_{31+}$
	$20 = \overline{19}$	0	$1456_{10} = \chi_{57+}, \varphi_{32+}$
	21	0	$1456_{11} = \chi_{60+}, \varphi_{35+}$
	$22 = \overline{21}$	0	$1456_{12} = \chi_{61+}, \varphi_{36+}$
	23	0	$1456_{13} = \chi_{64+}, \varphi_{39+}$
	$24 = \overline{23}$	0	$1456_{14} = \chi_{65+}, \varphi_{40+}$
	25	0	$1456_{15} = \chi_{68+}, \varphi_{43+}$
	$26 = \overline{25}$	0	$1456_{16} = \chi_{69+}, \varphi_{44+}$
	27	0	$1456_{17} = \chi_{72+}, \varphi_{47+}$
	$28 = \overline{27}$	0	$1456_{18} = \chi_{73+}, \varphi_{48+}$
	29	0	$819_1 = \chi_{77,0}, \varphi_{51,0}$
	30	0	$819_2 = \chi_{77,1}, \varphi_{51,1}$
	31	0	$1638_1 = \chi_{78+}, \varphi_{52+}$
	32	0	$1638_2 = \chi_{80+}, \varphi_{54+}$
	$33 = \overline{32}$	0	$1638_3 = \chi_{81+}, \varphi_{55+}$
	34	0	$910_1 = \chi_{84,0}, \varphi_{58,0}$
	35	0	$910_2 = \chi_{84,1}, \varphi_{58,1}$
	36	0	$1820_1 = \chi_{85+}, \varphi_{59+}$
	37	0	$1820_2 = \chi_{87+}, \varphi_{61+}$
	38	0	$910_3 = \chi_{89,0}, \varphi_{63,0}$
	39	0	$910_4 = \chi_{89,1}, \varphi_{63,1}$
	$40 = \overline{38}$	0	$910_5 = \chi_{90,0}, \varphi_{64,0}$

	blocks	defect	matrix
	$41 = \overline{39}$	0	$910_6 = \chi_{90,1}, \varphi_{64,1}$

Block 1:	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{2,0}$	$\varphi_{2,1}$	$\varphi_{10,0}$	$\varphi_{10,1}$	
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	$\varphi_{1,0} = 1_1$
$1_2 = \chi_{1,1}$	.	1	.	.	.	.	$\varphi_{1,1} = 1_2$
$90_1 = \chi_{2,0}$	1	.	1	.	.	.	$\varphi_{2,0} = 89_1$
$90_2 = \chi_{2,1}$	.	1	.	1	.	.	$\varphi_{2,1} = 89_2$
$1280_1 = \chi_{10+}$	.	.	.	.	1	1	$\varphi_{10,0} = 640_1$
$729_1 = \chi_{76,0}$	.	.	1	.	1	.	$\varphi_{10,1} = 640_2$
$729_2 = \chi_{76,1}$	.	.	.	1	.	1	

Block 7:	$\varphi_{11,0}$	$\varphi_{11,1}$	
$640_1 = \chi_{12,0}$	1	.	$\varphi_{11,0} = 640_3$
$640_2 = \chi_{12,1}$	.	1	$\varphi_{11,1} = 640_4$
$1280_2 = \chi_{16+}$	1	1	
$1280_6 = \chi_{24+}$	1	1	
$1280_{10} = \chi_{32+}$	1	1	

Block 8:	$\varphi_{12,0}$	$\varphi_{12,1}$	
$640_3 = \chi_{13,0}$	1	.	$\varphi_{12,0} = 640_5$
$640_4 = \chi_{13,1}$	.	1	$\varphi_{12,1} = 640_6$
$1280_3 = \chi_{17+}$	1	1	
$1280_7 = \chi_{25+}$	1	1	
$1280_{11} = \chi_{33+}$	1	1	

Block 9:	$\varphi_{13,0}$	$\varphi_{13,1}$	
$640_5 = \chi_{14,0}$	1	.	$\varphi_{13,0} = 640_7$
$640_6 = \chi_{14,1}$	.	1	$\varphi_{13,1} = 640_8$
$1280_4 = \chi_{20+}$	1	1	
$1280_8 = \chi_{28+}$	1	1	
$1280_{12} = \chi_{36+}$	1	1	

Block 10:	$\varphi_{14,0}$	$\varphi_{14,1}$
$640_7 = \chi_{15,0}$	1	.
$640_8 = \chi_{15,1}$	.	1
$1280_5 = \chi_{21+}$	1	1
$1280_9 = \chi_{29+}$	1	1
$1280_{13} = \chi_{37+}$	1	1

$$\begin{aligned} \varphi_{14,0} &= 640_9 \\ \varphi_{14,1} &= 640_{10} \end{aligned}$$