

$L_3(9).2_3 \pmod{5}$

	blocks	defect	matrix
$G :$	1	1	5×4
	2	0	$90_1 = \chi_{2,0}, \varphi_{2,0}$
	3	0	$90_2 = \chi_{2,1}, \varphi_{2,1}$
	4	1	5×4
	5	1	5×4
	$6 = \overline{5}$	1	5×4
	7	1	4×2
	$8 = \overline{7}$	1	4×2
	9	0	$640_1 = \chi_{10,0}, \varphi_{10,0}$
	10	0	$640_2 = \chi_{10,1}, \varphi_{10,1}$
	$11 = \overline{9}$	0	$640_3 = \chi_{11,0}, \varphi_{11,0}$
	$12 = \overline{10}$	0	$640_4 = \chi_{11,1}, \varphi_{11,1}$
	13	0	$1280_1 = \chi_{12+}, \varphi_{12+}$
	14	0	$1280_2 = \chi_{14+}, \varphi_{14+}$
	15	0	$1280_3 = \chi_{16+}, \varphi_{16+}$
	$16 = \overline{15}$	0	$1280_4 = \chi_{17+}, \varphi_{17+}$
	17	0	$1280_5 = \chi_{20+}, \varphi_{20+}$
	$18 = \overline{17}$	0	$1280_6 = \chi_{21+}, \varphi_{21+}$
	19	0	$1280_7 = \chi_{24+}, \varphi_{24+}$
	$20 = \overline{19}$	0	$1280_8 = \chi_{25+}, \varphi_{25+}$
	21	0	$1280_9 = \chi_{28+}, \varphi_{28+}$
	$22 = \overline{21}$	0	$1280_{10} = \chi_{29+}, \varphi_{29+}$
	23	0	$1280_{11} = \chi_{32+}, \varphi_{32+}$
	$24 = \overline{23}$	0	$1280_{12} = \chi_{33+}, \varphi_{33+}$
	25	0	$1280_{13} = \chi_{36+}, \varphi_{36+}$
	$26 = \overline{25}$	0	$1280_{14} = \chi_{37+}, \varphi_{37+}$
	27	1	5×1
	$28 = \overline{27}$	1	5×1
	29	0	$910_1 = \chi_{84,0}, \varphi_{52,0}$
	30	0	$910_2 = \chi_{84,1}, \varphi_{52,1}$
	31	0	$1820_1 = \chi_{85+}, \varphi_{53+}$
	32	0	$910_3 = \chi_{87,0}, \varphi_{55,0}$
	33	0	$910_4 = \chi_{87,1}, \varphi_{55,1}$
	$34 = \overline{32}$	0	$910_5 = \chi_{88,0}, \varphi_{56,0}$
	$35 = \overline{33}$	0	$910_6 = \chi_{88,1}, \varphi_{56,1}$
	36	0	$1820_2 = \chi_{89+}, \varphi_{57+}$

Block 1:	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{41,0}$	$\varphi_{41,1}$	
$1_1 = \chi_{1,0}$	1	.	.	.	$\varphi_{1,0} = 1_1$
$1_2 = \chi_{1,1}$	.	1	.	.	$\varphi_{1,1} = 1_2$
$1456_2 = \chi_{42+}$	.	.	1	1	$\varphi_{41,0} = 728_3$
$729_1 = \chi_{76,0}$	1	.	1	.	$\varphi_{41,1} = 728_4$
$729_2 = \chi_{76,1}$	.	1	.	1	

Block 4:	$\varphi_{3,0}$	$\varphi_{3,1}$	$\varphi_{40,0}$	$\varphi_{40,1}$	
$91_1 = \chi_{3,0}$	1	.	.	.	$\varphi_{3,0} = 91_1$
$91_2 = \chi_{3,1}$	.	1	.	.	$\varphi_{3,1} = 91_2$
$1456_1 = \chi_{40+}$	.	.	1	1	$\varphi_{40,0} = 728_1$
$819_1 = \chi_{77,0}$	1	.	1	.	$\varphi_{40,1} = 728_2$
$819_2 = \chi_{77,1}$	.	1	.	1	

Block 5:	$\varphi_{4,0}$	$\varphi_{4,1}$	$\varphi_{46,0}$	$\varphi_{46,1}$	
$91_3 = \chi_{4,0}$	1	.	.	.	$\varphi_{4,0} = 91_3$
$91_4 = \chi_{4,1}$	.	1	.	.	$\varphi_{4,1} = 91_4$
$1456_5 = \chi_{48+}$	.	.	1	1	$\varphi_{46,0} = 728_5$
$819_3 = \chi_{78,0}$	1	.	1	.	$\varphi_{46,1} = 728_6$
$819_4 = \chi_{78,1}$	.	1	.	1	

Block 6:	$\varphi_{5,0}$	$\varphi_{5,1}$	$\varphi_{47,0}$	$\varphi_{47,1}$	
$91_5 = \chi_{5,0}$	1	.	.	.	$\varphi_{5,0} = 91_5$
$91_6 = \chi_{5,1}$	.	1	.	.	$\varphi_{5,1} = 91_6$
$1456_6 = \chi_{49+}$	.	.	1	1	$\varphi_{47,0} = 728_7$
$819_5 = \chi_{79,0}$	1	.	1	.	$\varphi_{47,1} = 728_8$
$819_6 = \chi_{79,1}$	.	1	.	1	

Block 7:	φ_{6+}	φ_{49+}	
$182_1 = \chi_{6+}$	1	.	$\varphi_{6+} = 182_1$
$1456_8 = \chi_{53+}$	.	1	$\varphi_{49+} = 1456_4$
$1456_{10} = \chi_{57+}$	.	1	
$1638_1 = \chi_{80+}$	1	1	

Block 8:	φ_{7+}	φ_{48+}		
$182_2 = \chi_{7+}$	1	.	$\varphi_{7+} = 182_2$	
$1456_7 = \chi_{52+}$	.	1	$\varphi_{48+} = 1456_3$	
$1456_9 = \chi_{56+}$	.	1		
$1638_2 = \chi_{81+}$	1	1		

Block 27:	φ_{42+}	
$1456_3 = \chi_{44+}$	1	
$1456_{11} = \chi_{60+}$	1	$\varphi_{42+} = 1456_1$
$1456_{13} = \chi_{64+}$	1	
$1456_{15} = \chi_{68+}$	1	
$1456_{17} = \chi_{72+}$	1	

Block 28:	φ_{43+}	
$1456_4 = \chi_{45+}$	1	
$1456_{12} = \chi_{61+}$	1	$\varphi_{43+} = 1456_2$
$1456_{14} = \chi_{65+}$	1	
$1456_{16} = \chi_{69+}$	1	
$1456_{18} = \chi_{73+}$	1	