

$L_3(9).2_2 \pmod{5}$

	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	4×2
	6	1	4×2
	$7 = \overline{6}$	1	4×2
	8	0	$1280_1 = \chi_{10+}, \varphi_{10+}$
	9	0	$640_1 = \chi_{12,0}, \varphi_{12,0}$
	10	0	$640_2 = \chi_{12,1}, \varphi_{12,1}$
	$11 = \overline{9}$	0	$640_3 = \chi_{13,0}, \varphi_{13,0}$
	$12 = \overline{10}$	0	$640_4 = \chi_{13,1}, \varphi_{13,1}$
	13	0	$640_5 = \chi_{14,0}, \varphi_{14,0}$
	14	0	$640_6 = \chi_{14,1}, \varphi_{14,1}$
	$15 = \overline{13}$	0	$640_7 = \chi_{15,0}, \varphi_{15,0}$
	$16 = \overline{14}$	0	$640_8 = \chi_{15,1}, \varphi_{15,1}$
	17	0	$1280_2 = \chi_{16+}, \varphi_{16+}$
	$18 = \overline{17}$	0	$1280_3 = \chi_{17+}, \varphi_{17+}$
	19	0	$1280_4 = \chi_{20+}, \varphi_{20+}$
	$20 = \overline{19}$	0	$1280_5 = \chi_{21+}, \varphi_{21+}$
	21	0	$1280_6 = \chi_{24+}, \varphi_{24+}$
	$22 = \overline{21}$	0	$1280_7 = \chi_{25+}, \varphi_{25+}$
	23	0	$1280_8 = \chi_{28+}, \varphi_{28+}$
	$24 = \overline{23}$	0	$1280_9 = \chi_{29+}, \varphi_{29+}$
	25	0	$1280_{10} = \chi_{32+}, \varphi_{32+}$
	$26 = \overline{25}$	0	$1280_{11} = \chi_{33+}, \varphi_{33+}$
	27	0	$1280_{12} = \chi_{36+}, \varphi_{36+}$
	$28 = \overline{27}$	0	$1280_{13} = \chi_{37+}, \varphi_{37+}$
	29	1	5×1
	$30 = \overline{29}$	1	5×1
	31	0	$910_1 = \chi_{84,0}, \varphi_{52,0}$
	32	0	$910_2 = \chi_{84,1}, \varphi_{52,1}$
	33	0	$1820_1 = \chi_{85+}, \varphi_{53+}$
	34	0	$1820_2 = \chi_{87+}, \varphi_{55+}$
	35	0	$910_3 = \chi_{89,0}, \varphi_{57,0}$
	36	0	$910_4 = \chi_{89,1}, \varphi_{57,1}$
	$37 = \overline{35}$	0	$910_5 = \chi_{90,0}, \varphi_{58,0}$
	$38 = \overline{36}$	0	$910_6 = \chi_{90,1}, \varphi_{58,1}$

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:	φ_{4+}	φ_{46+}	
$182_1 = \chi_{4+}$	1	.	$\varphi_{4+} = 182_1$
$1456_5 = \chi_{48+}$	.	1	$\varphi_{46+} = 1456_3$
$1456_6 = \chi_{49+}$	.	1	
$1638_1 = \chi_{78+}$	1	1	

Block 6:	φ_{6+}	φ_{49+}	
$182_2 = \chi_{6+}$	1	.	$\varphi_{6+} = 182_2$
$1456_8 = \chi_{53+}$	.	1	$\varphi_{49+} = 1456_5$
$1456_9 = \chi_{56+}$	.	1	
$1638_2 = \chi_{80+}$	1	1	

Block 7:	φ_{7+}	φ_{48+}	
$182_3 = \chi_{7+}$	1	.	$\varphi_{7+} = 182_3$
$1456_7 = \chi_{52+}$	.	1	$\varphi_{48+} = 1456_4$
$1456_{10} = \chi_{57+}$	.	1	
$1638_3 = \chi_{81+}$	1	1	

Block 29:	φ_{42+}
$1456_3 = \chi_{44+}$	1
$1456_{12} = \chi_{61+}$	1
$1456_{13} = \chi_{64+}$	1
$1456_{16} = \chi_{69+}$	1
$1456_{17} = \chi_{72+}$	1

$$\varphi_{42+} = 1456_1$$

Block 30:	φ_{43+}
$1456_4 = \chi_{45+}$	1
$1456_{11} = \chi_{60+}$	1
$1456_{14} = \chi_{65+}$	1
$1456_{15} = \chi_{68+}$	1
$1456_{18} = \chi_{73+}$	1

$$\varphi_{43+} = 1456_2$$