$L_3(9).2_1 \pmod 7$

	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	0	$182_3 = \chi_{8+}, \varphi_{8+}$
	7	1	7×1
	8	1	7×1
	9	0	$728_1 = \chi_{40,0}, \varphi_{15,0}$
	10	0	$728_2 = \chi_{40,1}, \varphi_{15,1}$
	11	0	$728_3 = \chi_{41,0}, \varphi_{16,0}$
	12	0	$728_4 = \chi_{41,1}, \varphi_{16,1}$
	13	0	$728_5 = \chi_{42,0}, \varphi_{17,0}$
	14	0	$728_6 = \chi_{42,1}, \varphi_{17,1}$
	15	0	$728_7 = \chi_{43,0}, \varphi_{18,0}$
	16	0	$728_8 = \chi_{43,1}, \varphi_{18,1}$
	17	0	$1456_1 = \chi_{44+}, \varphi_{19+}$
	18	0	$1456_2 = \chi_{46+}, \varphi_{21+}$
	19	0	$1456_3 = \chi_{48+}, \varphi_{23+}$
	20	0	$1456_4 = \chi_{50+}, \varphi_{25+}$
	21	0	$1456_5 = \chi_{52+}, \varphi_{27+}$
	22	0	$1456_6 = \chi_{54+}, \varphi_{29+}$
	23	0	$1456_7 = \chi_{56+}, \varphi_{31+}$

	blocks	defect	matrix
	24	0	$1456_8 = \chi_{58+}, \varphi_{33+}$
	25	0	$1456_9 = \chi_{60+}, \varphi_{35+}$
	26	0	$1456_{10} = \chi_{62+}, \varphi_{37+}$
	27	0	$1456_{11} = \chi_{64+}, \varphi_{39+}$
	28	0	$1456_{12} = \chi_{66+}, \varphi_{41+}$
	29	0	$1456_{13} = \chi_{68+}, \varphi_{43+}$
	30	0	$1456_{14} = \chi_{70+}, \varphi_{45+}$
	31	0	$1456_{15} = \chi_{72+}, \varphi_{47+}$
	32	0	$1456_{16} = \chi_{74+}, \varphi_{49+}$
	33	0	$819_1 = \chi_{77,0}, \varphi_{51,0}$
	34	0	$819_2 = \chi_{77,1}, \varphi_{51,1}$
	35	0	$1638_1 = \chi_{78+}, \varphi_{52+}$
	36	0	$1638_2 = \chi_{80+}, \varphi_{54+}$
	37	0	$1638_3 = \chi_{82+}, \varphi_{56+}$
	38	0	$910_1 = \chi_{84,0}, \varphi_{58,0}$
	39	0	$910_2 = \chi_{84,1}, \varphi_{58,1}$
	40	0	$910_3 = \chi_{85,0}, \varphi_{59,0}$
	41	0	$910_4 = \chi_{85,1}, \varphi_{59,1}$
	42	0	$910_5 = \chi_{86,0}, \varphi_{60,0}$
	43	0	$910_6 = \chi_{86,1}, \varphi_{60,1}$
	44	0	$1820_1 = \chi_{87+}, \varphi_{61+}$
	45	0	$1820_2 = \chi_{89+}, \varphi_{63+}$

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	.	.	.	.	.
$1_2 = \chi_{1,1}$	.	1	.	.	.	.
$90_1 = \chi_{2,0}$	1	.	1	.	.	.
$90_2 = \chi_{2,1}$	.	1	.	1	.	.
$1280_1 = \chi_{10+}$	.	.	.	.	1	1
$729_1 = \chi_{76,0}$	.	.	.	1	1	.
$729_2 = \chi_{76,1}$	.	.	1	.	.	1

$$\begin{aligned} \varphi_{1,0} &= 1_1 \\ \varphi_{1,1} &= 1_2 \\ \varphi_{2,0} &= 89_1 \\ \varphi_{2,1} &= 89_2 \\ \varphi_{10,0} &= 640_1 \\ \varphi_{10,1} &= 640_2 \end{aligned}$$

Block 7:	φ_{11+}
$1280_2 = \chi_{12+}$	1
$1280_4 = \chi_{16+}$	1
$1280_5 = \chi_{18+}$	1
$1280_8 = \chi_{24+}$	1
$1280_9 = \chi_{26+}$	1
$1280_{12} = \chi_{32+}$	1
$1280_{13} = \chi_{34+}$	1

$$\varphi_{11+} = 1280_1$$

Block 8:	φ_{13+}
$1280_3 = \chi_{14+}$	1
$1280_6 = \chi_{20+}$	1
$1280_7 = \chi_{22+}$	1
$1280_{10} = \chi_{28+}$	1
$1280_{11} = \chi_{30+}$	1
$1280_{14} = \chi_{36+}$	1
$1280_{15} = \chi_{38+}$	1

$$\varphi_{13+} = 1280_2$$