$L_3(9) \pmod 7$

	blocks	defect	matrix
$G:$	1	1	5×3
	2	0	$91_1 = \chi_3, \varphi_3$
	3	0	$91_2 = \chi_4, \varphi_4$
	$4 = \overline{3}$	0	$91_3 = \chi_5, \varphi_5$
	5	0	$91_4 = \chi_6, \varphi_6$
	$6 = \overline{5}$	0	$91_5 = \chi_7, \varphi_7$
	7	0	$91_6 = \chi_8, \varphi_8$
	$8 = \overline{7}$	0	$91_7 = \chi_9, \varphi_9$
	9	1	7×1
	$10 = \overline{9}$	1	7×1
	11	1	7×1
	$12 = \overline{11}$	1	7×1
	13	0	$728_1 = \chi_{40}, \varphi_{15}$
	14	0	$728_2 = \chi_{41}, \varphi_{16}$
	15	0	$728_3 = \chi_{42}, \varphi_{17}$
	16	0	$728_4 = \chi_{43}, \varphi_{18}$
	17	0	$728_5 = \chi_{44}, \varphi_{19}$
	$18 = \overline{17}$	0	$728_6 = \chi_{45}, \varphi_{20}$
	19	0	$728_7 = \chi_{46}, \varphi_{21}$
	$20 = \overline{19}$	0	$728_8 = \chi_{47}, \varphi_{22}$
	21	0	$728_9 = \chi_{48}, \varphi_{23}$
	$22 = \overline{21}$	0	$728_{10} = \chi_{49}, \varphi_{24}$
	23	0	$728_{11} = \chi_{50}, \varphi_{25}$
	$24 = \overline{23}$	0	$728_{12} = \chi_{51}, \varphi_{26}$
	25	0	$728_{13} = \chi_{52}, \varphi_{27}$
	$26 = \overline{25}$	0	$728_{14} = \chi_{53}, \varphi_{28}$
	27	0	$728_{15} = \chi_{54}, \varphi_{29}$
	$28 = \overline{27}$	0	$728_{16} = \chi_{55}, \varphi_{30}$
	29	0	$728_{17} = \chi_{56}, \varphi_{31}$
	$30 = \overline{29}$	0	$728_{18} = \chi_{57}, \varphi_{32}$
	31	0	$728_{19} = \chi_{58}, \varphi_{33}$

	blocks	defect	matrix
	$32 = \overline{31}$	0	$728_{20} = \chi_{59}, \varphi_{34}$
	33	0	$728_{21} = \chi_{60}, \varphi_{35}$
	$34 = \overline{33}$	0	$728_{22} = \chi_{61}, \varphi_{36}$
	35	0	$728_{23} = \chi_{62}, \varphi_{37}$
	$36 = \overline{35}$	0	$728_{24} = \chi_{63}, \varphi_{38}$
	37	0	$728_{25} = \chi_{64}, \varphi_{39}$
	$38 = \overline{37}$	0	$728_{26} = \chi_{65}, \varphi_{40}$
	39	0	$728_{27} = \chi_{66}, \varphi_{41}$
	$40 = \overline{39}$	0	$728_{28} = \chi_{67}, \varphi_{42}$
	41	0	$728_{29} = \chi_{68}, \varphi_{43}$
	$42 = \overline{41}$	0	$728_{30} = \chi_{69}, \varphi_{44}$
	43	0	$728_{31} = \chi_{70}, \varphi_{45}$
	$44 = \overline{43}$	0	$728_{32} = \chi_{71}, \varphi_{46}$
	45	0	$728_{33} = \chi_{72}, \varphi_{47}$
	$46 = \overline{45}$	0	$728_{34} = \chi_{73}, \varphi_{48}$
	47	0	$728_{35} = \chi_{74}, \varphi_{49}$
	$48 = \overline{47}$	0	$728_{36} = \chi_{75}, \varphi_{50}$
	49	0	$819_1 = \chi_{77}, \varphi_{51}$
	50	0	$819_2 = \chi_{78}, \varphi_{52}$
	$51 = \overline{50}$	0	$819_3 = \chi_{79}, \varphi_{53}$
	52	0	$819_4 = \chi_{80}, \varphi_{54}$
	$53 = \overline{52}$	0	$819_5 = \chi_{81}, \varphi_{55}$
	54	0	$819_6 = \chi_{82}, \varphi_{56}$
	$55 = \overline{54}$	0	$819_7 = \chi_{83}, \varphi_{57}$
	56	0	$910_1 = \chi_{84}, \varphi_{58}$
	57	0	$910_2 = \chi_{85}, \varphi_{59}$
	58	0	$910_3 = \chi_{86}, \varphi_{60}$
	59	0	$910_4 = \chi_{87}, \varphi_{61}$
	$60 = \overline{59}$	0	$910_5 = \chi_{88}, \varphi_{62}$
	61	0	$910_6 = \chi_{89}, \varphi_{63}$
	$62 = \overline{61}$	0	$910_7 = \chi_{90}, \varphi_{64}$

Block 1:	φ_1	φ_2	φ_{10}
$1_1 = \chi_1$	1	.	.
$90_1 = \chi_2$	1	1	.
$640_1 = \chi_{10}$	.	.	1
$640_2 = \chi_{11}$	.	.	1
$729_1 = \chi_{76}$	.	1	1

$\varphi_1 = 1_1$
$\varphi_2 = 89_1$
$\varphi_{10} = 640_1$

Block 9:	φ_{11}
$640_3 = \chi_{12}$	1
$640_7 = \chi_{16}$	1
$640_9 = \chi_{18}$	1
$640_{15} = \chi_{24}$	1
$640_{17} = \chi_{26}$	1
$640_{23} = \chi_{32}$	1
$640_{25} = \chi_{34}$	1

$\varphi_{11} = 640_2$

Block 10:	φ_{12}
$640_4 = \chi_{13}$	1
$640_8 = \chi_{17}$	1
$640_{10} = \chi_{19}$	1
$640_{16} = \chi_{25}$	1
$640_{18} = \chi_{27}$	1
$640_{24} = \chi_{33}$	1
$640_{26} = \chi_{35}$	1

$\varphi_{12} = 640_3$

Block 11:	φ_{13}
$640_5 = \chi_{14}$	1
$640_{11} = \chi_{20}$	1
$640_{13} = \chi_{22}$	1
$640_{19} = \chi_{28}$	1
$640_{21} = \chi_{30}$	1
$640_{27} = \chi_{36}$	1
$640_{29} = \chi_{38}$	1

$\varphi_{13} = 640_4$

Block 12:	φ_{14}
$640_6 = \chi_{15}$	1
$640_{12} = \chi_{21}$	1
$640_{14} = \chi_{23}$	1
$640_{20} = \chi_{29}$	1
$640_{22} = \chi_{31}$	1
$640_{28} = \chi_{37}$	1
$640_{30} = \chi_{39}$	1

$\varphi_{14} = 640_5$