

$L_3(8) \pmod{3}$

	blocks	defect	matrix		blocks	defect	matrix
$G :$	1	2	6×2		$20 = \overline{19}$	0	$441_{12} = \chi_{20}, \varphi_{20}$
	2	0	$72_1 = \chi_2, \varphi_2$		21	0	$441_{13} = \chi_{21}, \varphi_{21}$
	3	2	6×2		$22 = \overline{21}$	0	$441_{14} = \chi_{22}, \varphi_{22}$
	$4 = \overline{3}$	2	6×2		23	0	$441_{15} = \chi_{23}, \varphi_{23}$
	5	2	6×2		$24 = \overline{23}$	0	$441_{16} = \chi_{24}, \varphi_{24}$
	$6 = \overline{5}$	2	6×2		25	0	$441_{17} = \chi_{25}, \varphi_{25}$
	7	2	6×2		$26 = \overline{25}$	0	$441_{18} = \chi_{26}, \varphi_{26}$
	$8 = \overline{7}$	2	6×2		27	0	$441_{19} = \chi_{27}, \varphi_{27}$
	9	0	$441_1 = \chi_9, \varphi_9$		$28 = \overline{27}$	0	$441_{20} = \chi_{28}, \varphi_{28}$
	$10 = \overline{9}$	0	$441_2 = \chi_{10}, \varphi_{10}$		29	0	$441_{21} = \chi_{29}, \varphi_{29}$
	11	0	$441_3 = \chi_{11}, \varphi_{11}$		$30 = \overline{29}$	0	$441_{22} = \chi_{30}, \varphi_{30}$
	$12 = \overline{11}$	0	$441_4 = \chi_{12}, \varphi_{12}$		31	0	$441_{23} = \chi_{31}, \varphi_{31}$
	13	0	$441_5 = \chi_{13}, \varphi_{13}$		$32 = \overline{31}$	0	$441_{24} = \chi_{32}, \varphi_{32}$
	$14 = \overline{13}$	0	$441_6 = \chi_{14}, \varphi_{14}$		33	0	$657_1 = \chi_{68}, \varphi_{40}$
	15	0	$441_7 = \chi_{15}, \varphi_{15}$		$34 = \overline{33}$	0	$657_2 = \chi_{69}, \varphi_{41}$
	$16 = \overline{15}$	0	$441_8 = \chi_{16}, \varphi_{16}$		35	0	$657_3 = \chi_{70}, \varphi_{42}$
	17	0	$441_9 = \chi_{17}, \varphi_{17}$		36	0	$657_4 = \chi_{71}, \varphi_{43}$
	$18 = \overline{17}$	0	$441_{10} = \chi_{18}, \varphi_{18}$		37	0	$657_5 = \chi_{72}, \varphi_{44}$
	19	0	$441_{11} = \chi_{19}, \varphi_{19}$				

Block 1:	φ_1	φ_{33}
$1_1 = \chi_1$	1	.
$511_1 = \chi_{33}$	.	1
$511_2 = \chi_{34}$	.	1
$511_3 = \chi_{35}$	.	1
$511_4 = \chi_{36}$	.	1
$512_1 = \chi_{61}$	1	1

$$\begin{aligned} \varphi_1 &= 1_1 \\ \varphi_{33} &= 511_1 \end{aligned}$$

Block 3:	φ_3	φ_{34}
$73_1 = \chi_3$	1	.
$511_5 = \chi_{37}$	.	1
$511_{11} = \chi_{43}$	.	1
$511_{21} = \chi_{53}$	.	1
$511_{25} = \chi_{57}$	.	1
$584_1 = \chi_{62}$	1	1

$$\begin{aligned} \varphi_3 &= 73_1 \\ \varphi_{34} &= 511_2 \end{aligned}$$

Block 4:	φ_4	φ_{35}		
$73_2 = \chi_4$	1	.		
$511_6 = \chi_{38}$	.	1	$\varphi_4 = 73_2$	
$511_{12} = \chi_{44}$	.	1	$\varphi_{35} = 511_3$	
$511_{22} = \chi_{54}$	.	1		
$511_{26} = \chi_{58}$	.	1		
$584_2 = \chi_{63}$	1	1		

Block 5:	φ_5	φ_{36}		
$73_3 = \chi_5$	1	.		
$511_7 = \chi_{39}$	.	1	$\varphi_5 = 73_3$	
$511_{13} = \chi_{45}$	.	1	$\varphi_{36} = 511_4$	
$511_{17} = \chi_{49}$	.	1		
$511_{27} = \chi_{59}$	.	1		
$584_3 = \chi_{64}$	1	1		

Block 6:	φ_6	φ_{37}		
$73_4 = \chi_6$	1	.		
$511_8 = \chi_{40}$	.	1	$\varphi_6 = 73_4$	
$511_{14} = \chi_{46}$	.	1	$\varphi_{37} = 511_5$	
$511_{18} = \chi_{50}$	.	1		
$511_{28} = \chi_{60}$	.	1		
$584_4 = \chi_{65}$	1	1		

Block 7:	φ_7	φ_{38}		
$73_5 = \chi_7$	1	.		
$511_9 = \chi_{41}$	.	1	$\varphi_7 = 73_5$	
$511_{15} = \chi_{47}$	.	1	$\varphi_{38} = 511_6$	
$511_{19} = \chi_{51}$	.	1		
$511_{23} = \chi_{55}$	.	1		
$584_5 = \chi_{66}$	1	1		

Block 8:	φ_8	φ_{39}		
$73_6 = \chi_8$	1	.		
$511_{10} = \chi_{42}$	.	1	$\varphi_8 = 73_6$	
$511_{16} = \chi_{48}$	.	1	$\varphi_{39} = 511_7$	
$511_{20} = \chi_{52}$	.	1		
$511_{24} = \chi_{56}$	.	1		
$584_6 = \chi_{67}$	1	1		