

$L_3(8).6 \pmod{7}$

	blocks	defect	matrix
$G :$	1	2	25×18
	2	0	$2646_1 = \chi_{9+}, \varphi_{3+}$
	3	0	$2646_2 = \chi_{15+}, \varphi_{9+}$
	4	0	$2646_3 = \chi_{21+}, \varphi_{15+}$
	5	0	$2646_4 = \chi_{27+}, \varphi_{21+}$
	6	1	7×6
	7	1	5×2

Block 1:	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{1,2}$	$\varphi_{1,3}$	$\varphi_{1,4}$	$\varphi_{1,5}$	$\varphi_{2,0}$	$\varphi_{2,1}$	$\varphi_{2,2}$	$\varphi_{2,3}$	$\varphi_{2,4}$	$\varphi_{2,5}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$.	1	.	.	.	.	.	.	.	.	.	.
$1_3 = \chi_{1,2}$.	.	1	.	.	.	.	.	.	.	.	.
$1_4 = \chi_{1,3}$.	.	.	1	.	.	.	.	.	.	.	.
$1_5 = \chi_{1,4}$	1	.	.	.	.	.	.	.
$1_6 = \chi_{1,5}$	1	.	.	.	.	.	.
$72_1 = \chi_{2,0}$	1	.	.	.	.	.
$72_2 = \chi_{2,1}$	1	.	.	.	.
$72_3 = \chi_{2,2}$	1	.	.	.
$72_4 = \chi_{2,3}$	1	.	.
$72_5 = \chi_{2,4}$	1	.
$72_6 = \chi_{2,5}$	1
$438_1 = \chi_{3+}$	1	1	1	1	1	1	1	1	1	1	1	1
$512_1 = \chi_{61,0}$
$512_2 = \chi_{61,1}$
$512_3 = \chi_{61,2}$
$512_4 = \chi_{61,3}$
$512_5 = \chi_{61,4}$
$512_6 = \chi_{61,5}$
$3504_1 = \chi_{62+}$	1	1	1	1	1	1
$1314_1 = \chi_{68,0+}$	1	.	.	1	.	.	.	1	1	.	1	1
$1314_2 = \chi_{68,1+}$.	1	.	.	1	.	1	.	1	1	.	1
$1314_3 = \chi_{68,2+}$.	.	1	.	.	1	1	1	.	1	1	.
$1971_1 = \chi_{70,0+}$	1	.	1	.	1	.	1	1	1	1	1	1
$1971_2 = \chi_{70,1+}$.	1	.	1	.	1	1	1	1	1	1	1

(Block 1:)	$\varphi_{31,0}$	$\varphi_{31,1}$	$\varphi_{31,2}$	$\varphi_{31,3}$	$\varphi_{31,4}$	$\varphi_{31,5}$	
$1_1 = \chi_{1,0}$	
$1_2 = \chi_{1,1}$	
$1_3 = \chi_{1,2}$	$\varphi_{1,0} = 1_1$
$1_4 = \chi_{1,3}$	$\varphi_{1,1} = 1_2$
$1_5 = \chi_{1,4}$	$\varphi_{1,2} = 1_3$
$1_6 = \chi_{1,5}$	$\varphi_{1,3} = 1_4$
$72_1 = \chi_{2,0}$	$\varphi_{1,4} = 1_5$
$72_2 = \chi_{2,1}$	$\varphi_{1,5} = 1_6$
$72_3 = \chi_{2,2}$	$\varphi_{2,0} = 72_1$
$72_4 = \chi_{2,3}$	$\varphi_{2,1} = 72_2$
$72_5 = \chi_{2,4}$	$\varphi_{2,2} = 72_3$
$72_6 = \chi_{2,5}$	$\varphi_{2,3} = 72_4$
$438_1 = \chi_{3+}$	$\varphi_{2,4} = 72_5$
$512_1 = \chi_{61,0}$	1	.	.	.	.	.	$\varphi_{2,5} = 72_6$
$512_2 = \chi_{61,1}$.	1	.	.	.	.	$\varphi_{31,0} = 512_1$
$512_3 = \chi_{61,2}$.	.	1	.	.	.	$\varphi_{31,1} = 512_2$
$512_4 = \chi_{61,3}$.	.	.	1	.	.	$\varphi_{31,2} = 512_3$
$512_5 = \chi_{61,4}$	1	.	$\varphi_{31,3} = 512_4$
$512_6 = \chi_{61,5}$	1	$\varphi_{31,4} = 512_5$
$3504_1 = \chi_{62+}$	1	1	1	1	1	1	$\varphi_{31,5} = 512_6$
$1314_1 = \chi_{68,0+}$	1	.	.	1	.	.	
$1314_2 = \chi_{68,1+}$.	1	.	.	1	.	
$1314_3 = \chi_{68,2+}$.	.	1	.	.	1	
$1971_1 = \chi_{70,0+}$	1	.	1	.	1	.	
$1971_2 = \chi_{70,1+}$.	1	.	1	.	1	

Block 6:	$\varphi_{27,0}$	$\varphi_{27,1}$	$\varphi_{27,2}$	$\varphi_{27,3}$	$\varphi_{27,4}$	$\varphi_{27,5}$	
$511_1 = \chi_{33,0}$	1	.	.	.	.	.	$\varphi_{27,0} = 511_1$
$511_2 = \chi_{33,1}$	.	1	.	.	.	.	$\varphi_{27,1} = 511_2$
$511_3 = \chi_{33,2}$	.	.	1	.	.	.	$\varphi_{27,2} = 511_3$
$511_4 = \chi_{33,3}$	.	.	.	1	.	.	$\varphi_{27,3} = 511_4$
$511_5 = \chi_{33,4}$	.	.	.	.	1	.	$\varphi_{27,4} = 511_5$
$511_6 = \chi_{33,5}$	.	.	.	.	.	1	$\varphi_{27,5} = 511_6$
$3066_1 = \chi_{37+}$	1	1	1	1	1	1	

Block 7:	$\varphi_{28,0+}$	$\varphi_{28,1+}$
$1533_1 = \chi_{34,0+}$	1	.
$1533_2 = \chi_{34,1+}$	.	1
$3066_2 = \chi_{43+}$	1	1
$3066_3 = \chi_{49+}$	1	1
$3066_4 = \chi_{55+}$	1	1

$$\begin{aligned} \varphi_{28,0+} &= 1533_1 \\ \varphi_{28,1+} &= 1533_2 \end{aligned}$$