

$$L_4(4) \pmod{3}$$

	blocks	defect	matrix
$G :$	1	4	19×5
	2	0	$2835_1 = \chi_7, \varphi_9$
	3	0	$2835_2 = \chi_8, \varphi_{10}$
	4	0	$2835_3 = \chi_9, \varphi_{11}$
	5	0	$2835_4 = \chi_{10}, \varphi_{12}$
	6	1	3×1
	7	2	9×1
	$8 = \bar{7}$	2	9×1
	9	0	$2835_5 = \chi_{35}, \varphi_{13}$
	10	0	$2835_6 = \chi_{36}, \varphi_{14}$
	$11 = \bar{9}$	0	$2835_7 = \chi_{37}, \varphi_{15}$
	12	0	$2835_8 = \chi_{38}, \varphi_{16}$
	$13 = \bar{10}$	0	$2835_9 = \chi_{39}, \varphi_{17}$
	14	0	$2835_{10} = \chi_{40}, \varphi_{18}$
	$15 = \bar{14}$	0	$2835_{11} = \chi_{41}, \varphi_{19}$
	16	0	$2835_{12} = \chi_{42}, \varphi_{20}$
	17	0	$2835_{13} = \chi_{43}, \varphi_{21}$
	$18 = \bar{12}$	0	$2835_{14} = \chi_{44}, \varphi_{22}$
	$19 = \bar{17}$	0	$2835_{15} = \chi_{45}, \varphi_{23}$
	20	0	$2835_{16} = \chi_{46}, \varphi_{24}$
	$21 = \bar{20}$	0	$2835_{17} = \chi_{47}, \varphi_{25}$
	$22 = \bar{16}$	0	$2835_{18} = \chi_{48}, \varphi_{26}$
	23	0	$2835_{19} = \chi_{49}, \varphi_{27}$
	$24 = \bar{23}$	0	$2835_{20} = \chi_{50}, \varphi_{28}$
	25	1	3×2
	26	1	3×2
	27	2	9×2
	28	2	9×2

Block 1:	φ_1	φ_2	φ_5	φ_8	φ_{34}	
$1_1 = \chi_1$	1	.	.	.	.	
$84_1 = \chi_2$	.	1	.	.	.	
$272_1 = \chi_3$	1	.	1	.	.	
$357_1 = \chi_4$	2	1	1	.	.	
$1344_1 = \chi_5$	.	.	.	1	.	
$1785_1 = \chi_6$	2	2	1	1	.	
$3825_7 = \chi_{18}$	.	.	.	.	1	$\varphi_1 = 1_1$
$3825_{14} = \chi_{25}$	.	.	.	.	1	$\varphi_2 = 84_1$
$4096_1 = \chi_{32}$	.	.	1	.	1	$\varphi_5 = 271_1$
$5712_1 = \chi_{33}$	1	.	2	1	1	$\varphi_8 = 1344_1$
$7140_1 = \chi_{34}$	1	1	2	2	1	$\varphi_{34} = 3825_3$
$85_1 = \chi_{51}$	1	1	.	.	.	
$85_2 = \chi_{60}$	1	1	.	.	.	
$1700_1 = \chi_{65}$	1	1	1	1	.	
$1428_1 = \chi_{66}$	.	1	.	1	.	
$1700_2 = \chi_{67}$	1	1	1	1	.	
$1428_2 = \chi_{68}$	.	1	.	1	.	
$5440_1 = \chi_{69}$	.	.	1	1	1	
$5440_2 = \chi_{83}$	.	.	1	1	1	

Block 6:	φ_{31}	
$3213_1 = \chi_{11}$	1	$\varphi_{31} = 3213_1$
$3213_2 = \chi_{53}$	1	
$3213_5 = \chi_{82}$	1	

Block 7:	φ_{32}	
$3825_1 = \chi_{12}$	1	
$3825_2 = \chi_{13}$	1	
$3825_3 = \chi_{14}$	1	
$3825_8 = \chi_{19}$	1	$\varphi_{32} = 3825_1$
$3825_9 = \chi_{20}$	1	
$3825_{10} = \chi_{21}$	1	
$3825_{15} = \chi_{26}$	1	
$3825_{16} = \chi_{27}$	1	
$3825_{17} = \chi_{28}$	1	

Block 8:	φ_{33}
$3825_4 = \chi_{15}$	1
$3825_5 = \chi_{16}$	1
$3825_6 = \chi_{17}$	1
$3825_{11} = \chi_{22}$	1
$3825_{12} = \chi_{23}$	1
$3825_{13} = \chi_{24}$	1
$3825_{18} = \chi_{29}$	1
$3825_{19} = \chi_{30}$	1
$3825_{20} = \chi_{31}$	1

$$\varphi_{33} = 3825_2$$

Block 25:	φ_3	φ_{30}
$189_1 = \chi_{52}$	1	.
$3024_1 = \chi_{61}$	.	1
$3213_4 = \chi_{78}$	1	1

$$\begin{aligned}\varphi_3 &= 189_1 \\ \varphi_{30} &= 3024_2\end{aligned}$$

Block 26:	φ_4	φ_{29}
$3213_3 = \chi_{54}$	1	1
$189_2 = \chi_{63}$	1	.
$3024_2 = \chi_{70}$	.	1

$$\begin{aligned}\varphi_4 &= 189_2 \\ \varphi_{29} &= 3024_1\end{aligned}$$

Block 27:	φ_6	φ_{35}
$1071_1 = \chi_{55}$	1	.
$1071_2 = \chi_{56}$	1	.
$5355_1 = \chi_{58}$	1	1
$5355_3 = \chi_{71}$	1	1
$4284_2 = \chi_{73}$	.	1
$4284_3 = \chi_{74}$	.	1
$5355_5 = \chi_{75}$	1	1
$1071_5 = \chi_{76}$	1	.
$4284_4 = \chi_{79}$	.	1

$$\begin{aligned}\varphi_6 &= 1071_1 \\ \varphi_{35} &= 4284_1\end{aligned}$$

Block 28:	φ_7	φ_{36}
$1071_3 = \chi_{57}$	1	.
$5355_2 = \chi_{59}$	1	1
$1071_4 = \chi_{62}$	1	.
$4284_1 = \chi_{64}$	.	1
$5355_4 = \chi_{72}$	1	1
$5355_6 = \chi_{77}$	1	1
$1071_6 = \chi_{80}$	1	.
$4284_5 = \chi_{81}$	.	1
$4284_6 = \chi_{84}$	.	1

$$\begin{aligned}\varphi_7 &= 1071_2 \\ \varphi_{36} &= 4284_2\end{aligned}$$