

$L_3(7) \pmod{2}$

	blocks	defect	matrix
$G :$	1	5	12×3
	2	2	4×3
	3	0	$288_1 = \chi_7, \varphi_6$
	$4 = \bar{3}$	0	$288_2 = \chi_8, \varphi_7$
	5	0	$288_3 = \chi_9, \varphi_8$
	$6 = \bar{5}$	0	$288_4 = \chi_{10}, \varphi_9$
	7	0	$288_5 = \chi_{11}, \varphi_{10}$
	$8 = \bar{7}$	0	$288_6 = \chi_{12}, \varphi_{11}$
$3.G :$	9	5	12×2
	$10 = 9^*$		
	11	0	$96_1 = \chi_{25}, \varphi_{14}$
	$12 = 11^*$		
	13	0	$96_3 = \chi_{26}, \varphi_{15}$
	$14 = 13^*$		

	blocks	defect	matrix
	15	0	$96_5 = \chi_{27}, \varphi_{16}$
	$16 = 15^*$		
	17	0	$288_7 = \chi_{28}, \varphi_{17}$
	$18 = 17^*$		
	$19 = \bar{18}$	0	$288_9 = \chi_{29}, \varphi_{18}$
	$20 = 19^*$		
	21	0	$288_{11} = \chi_{30}, \varphi_{19}$
	$22 = 21^*$		
	$23 = \bar{22}$	0	$288_{13} = \chi_{31}, \varphi_{20}$
	$24 = 23^*$		
	25	0	$288_{15} = \chi_{32}, \varphi_{21}$
	$26 = 25^*$		
	$27 = \bar{26}$	0	$288_{17} = \chi_{33}, \varphi_{22}$
	$28 = 27^*$		

Block 1:	φ_1	φ_2	φ_{12}
$1_1 = \chi_1$	1	.	.
$56_1 = \chi_2$	.	1	.
$57_1 = \chi_3$	1	1	.
$342_1 = \chi_{13}$	.	.	1
$342_2 = \chi_{14}$	.	.	1
$342_3 = \chi_{15}$	.	.	1
$342_4 = \chi_{16}$	.	.	1
$342_5 = \chi_{17}$	.	.	1
$342_6 = \chi_{18}$	.	.	1
$342_7 = \chi_{19}$	.	.	1
$343_1 = \chi_{20}$	1	.	1
$399_1 = \chi_{21}$	1	1	1

$$\begin{aligned} \varphi_1 &= 1_1 \\ \varphi_2 &= 56_1 \\ \varphi_{12} &= 342_1 \end{aligned}$$

Block 2:	φ_3	φ_4	φ_5
$152_1 = \chi_4$	1	.	.
$152_2 = \chi_5$	.	1	.
$152_3 = \chi_6$	.	.	1
$456_1 = \chi_{22}$	1	1	1

$$\begin{aligned} \varphi_3 &= 152_1 \\ \varphi_4 &= 152_2 \\ \varphi_5 &= 152_3 \end{aligned}$$

Blocks 9, 10:	φ_{13}	φ_{23}		
$57_2 = \chi_{23}$	1	.		
$57_4 = \chi_{24}$	1	.		
$342_8 = \chi_{34}$	.	1		
$342_{10} = \chi_{35}$	.	1		
$342_{12} = \chi_{36}$	.	1	$\varphi_{13} = 57_1$	
$342_{14} = \chi_{37}$	.	1	$\varphi_{23} = 342_2$	
$342_{16} = \chi_{38}$	.	1		
$342_{18} = \chi_{39}$	.	1		
$342_{20} = \chi_{40}$	.	1		
$399_2 = \chi_{41}$	1	1		
$399_4 = \chi_{42}$	1	1		
$456_2 = \chi_{43}$	2	1		