

$L_3(7) \pmod{19}$

	blocks	defect	matrix
$G :$	1	1	9×3
	2	0	$57_1 = \chi_3, \varphi_3$
	3	0	$152_1 = \chi_4, \varphi_4$
	4	0	$152_2 = \chi_5, \varphi_5$
	5	0	$152_3 = \chi_6, \varphi_6$
	6	0	$342_1 = \chi_{13}, \varphi_8$
	7	0	$342_2 = \chi_{14}, \varphi_9$
	8	0	$342_3 = \chi_{15}, \varphi_{10}$
	9	0	$342_4 = \chi_{16}, \varphi_{11}$
	$10 = \overline{9}$	0	$342_5 = \chi_{17}, \varphi_{12}$
	11	0	$342_6 = \chi_{18}, \varphi_{13}$
	$12 = \overline{11}$	0	$342_7 = \chi_{19}, \varphi_{14}$
	13	0	$399_1 = \chi_{21}, \varphi_{15}$
	14	0	$456_1 = \chi_{22}, \varphi_{16}$
$3.G :$	15	0	$57_2 = \chi_{23}, \varphi_{17}$
	$16 = 15^*$		
	17	0	$57_4 = \chi_{24}, \varphi_{18}$
	$18 = 17^*$		
	19	1	9×3
	$20 = 19^*$		

	blocks	defect	matrix
	21	0	$342_8 = \chi_{34}, \varphi_{22}$
	$22 = 21^*$		
	23	0	$342_{10} = \chi_{35}, \varphi_{23}$
	$24 = 23^*$		
	25	0	$342_{12} = \chi_{36}, \varphi_{24}$
	$26 = 25^*$		
	27	0	$342_{14} = \chi_{37}, \varphi_{25}$
	$28 = 27^*$		
	$29 = \overline{28}$	0	$342_{16} = \chi_{38}, \varphi_{26}$
	$30 = 29^*$		
	31	0	$342_{18} = \chi_{39}, \varphi_{27}$
	$32 = 31^*$		
	$33 = \overline{32}$	0	$342_{20} = \chi_{40}, \varphi_{28}$
	$34 = 33^*$		
	35	0	$399_2 = \chi_{41}, \varphi_{29}$
	$36 = 35^*$		
	37	0	$399_4 = \chi_{42}, \varphi_{30}$
	$38 = 37^*$		
	39	0	$456_2 = \chi_{43}, \varphi_{31}$
	$40 = 39^*$		

Block 1:	φ_1	φ_2	φ_7
$1_1 = \chi_1$	1	.	.
$56_1 = \chi_2$	1	1	.
$288_1 = \chi_7$	.	.	1
$288_2 = \chi_8$	.	.	1
$288_3 = \chi_9$	.	.	1
$288_4 = \chi_{10}$	.	.	1
$288_5 = \chi_{11}$	.	.	1
$288_6 = \chi_{12}$	.	.	1
$343_1 = \chi_{20}$	.	1	1

$$\begin{aligned}
 \varphi_1 &= 1_1 \\
 \varphi_2 &= 55_1 \\
 \varphi_7 &= 288_1
 \end{aligned}$$

Blocks 19, 20:	φ_{19}	φ_{20}	φ_{21}	
$96_1 = \chi_{25}$	1	.	.	
$96_3 = \chi_{26}$	.	1	.	
$96_5 = \chi_{27}$	.	.	1	$\varphi_{19} = 96_1$
$288_7 = \chi_{28}$	1	1	1	$\varphi_{20} = 96_3$
$288_9 = \chi_{29}$	1	1	1	$\varphi_{21} = 96_5$
$288_{11} = \chi_{30}$	1	1	1	
$288_{13} = \chi_{31}$	1	1	1	
$288_{15} = \chi_{32}$	1	1	1	
$288_{17} = \chi_{33}$	1	1	1	