

$L_3(7) \pmod{7}$

	blocks	defect	matrix
$G :$	1 2	3 0	21×16 $343_1 = \chi_{20}, \varphi_{17}$
$3.G :$	3 $4 = 3^*$	3	21×16

Block 1:	φ_1	φ_2	φ_3	φ_4	φ_5	φ_6	φ_7	φ_8	φ_9	φ_{10}	φ_{11}	φ_{12}	φ_{13}	φ_{14}	φ_{15}	φ_{16}
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$56_1 = \chi_2$	.	.	.	.	.	1	1	.	.	.	.	.	.	.	.	.
$57_1 = \chi_3$	.	.	1	1	.	.	.	.	.	1	.	.	.	.	.	.
$152_1 = \chi_4$	.	1	.	.	1	.	.	.	.	.	.	.	1	.	.	.
$152_2 = \chi_5$	.	1	.	.	1	.	.	.	.	.	.	.	1	.	.	.
$152_3 = \chi_6$	.	1	.	.	1	.	.	.	.	.	.	.	1	.	.	.
$288_1 = \chi_7$	.	2	1	1	1	.	.	.	.	1	.	1	1	.	.	.
$288_2 = \chi_8$	.	2	1	1	1	.	.	.	.	1	1	.	1	.	.	.
$288_3 = \chi_9$	.	.	.	1	.	.	1	.	1	.	.	.	.	.	.	1
$288_4 = \chi_{10}$	.	.	1	.	.	1	.	1	.	.	.	.	.	.	.	1
$288_5 = \chi_{11}$	1	.	.	.	1	.	.	.	1	.	1	.	.	1	.	.
$288_6 = \chi_{12}$	1	.	.	.	1	.	.	1	.	.	.	1	.	.	1	.
$342_1 = \chi_{13}$	1	1	1	1	2	.	.	.	.	.	1	1	1	.	.	.
$342_2 = \chi_{14}$	.	3	1	1	1	.	.	.	.	1	.	.	2	.	.	.
$342_3 = \chi_{15}$	1	.	.	.	.	1	1	1	1	.	.	.	.	.	.	1
$342_4 = \chi_{16}$	.	1	1	.	1	.	.	1	.	1	.	1	.	.	1	.
$342_5 = \chi_{17}$	.	1	.	1	1	.	.	.	1	1	1	.	.	1	.	.
$342_6 = \chi_{18}$	1	.	1	1	.	.	.	1	.	.	.	1	.	.	.	1
$342_7 = \chi_{19}$	1	.	1	1	.	.	.	.	1	.	1	.	.	.	.	1
$399_1 = \chi_{21}$	.	.	.	.	2	.	.	.	.	1	.	.	.	1	1	.
$456_1 = \chi_{22}$	1	1	1	1	.	.	.	1	1	.	1	1	.	.	.	1

$\varphi_1 = 1_1$	$\varphi_9 = 35_2$
$\varphi_2 = 8_1$	$\varphi_{10} = 37_1$
$\varphi_3 = 10_1$	$\varphi_{11} = 71_1$
$\varphi_4 = 10_2$	$\varphi_{12} = 71_2$
$\varphi_5 = 27_1$	$\varphi_{13} = 117_1$
$\varphi_6 = 28_1$	$\varphi_{14} = 154_1$
$\varphi_7 = 28_2$	$\varphi_{15} = 154_2$
$\varphi_8 = 35_1$	$\varphi_{16} = 215_1$

Blocks 3, 4:	φ_{18}	φ_{19}	φ_{20}	φ_{21}	φ_{22}	φ_{23}	φ_{24}	φ_{25}	φ_{26}	φ_{27}	φ_{28}	φ_{29}	φ_{30}	φ_{31}	φ_{32}
$57_2 = \chi_{23}$	.	1	1	.	.	.	.	1	.	.	.	.	.	.	.
$57_4 = \chi_{24}$	1	.	.	.	1	.	1	.	.	.	.	.	.	.	.
$96_1 = \chi_{25}$	.	1	.	1	.	.	.	.	.	.	1	.	.	.	.
$96_3 = \chi_{26}$	.	1	.	1	.	.	.	.	.	.	1	.	.	.	.
$96_5 = \chi_{27}$	.	1	.	1	.	.	.	.	.	.	1	.	.	.	.
$288_7 = \chi_{28}$	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.
$288_9 = \chi_{29}$	1	1	.	2	.	1	.	1	.	.	1	.	1	.	.
$288_{11} = \chi_{30}$	1	.	.	.	.	1	.	.	1	.	.	1	1	.	.
$288_{13} = \chi_{31}$	1	.	1	1	.	1	1	1	.	.	.	.	.	1	.
$288_{15} = \chi_{32}$	.	.	.	.	1	1	1	.	.	.	.	.	.	.	1
$288_{17} = \chi_{33}$	.	1	1	.	.	.	.	.	1	1	.	.	.	1	.
$342_8 = \chi_{34}$	.	1	.	1	.	1	.	1	1	.	.	1	1	.	.
$342_{10} = \chi_{35}$	1	.	1	.	1	1	1	1	.	.	.	.	.	.	1
$342_{12} = \chi_{36}$	1	2	1	1	.	1	.	1	.	.	1	.	.	1	.
$342_{14} = \chi_{37}$	1	1	.	3	.	1	.	.	.	.	2	.	1	.	.
$342_{16} = \chi_{38}$	1	.	1	.	.	1	1	.	1	1	.	.	.	1	.
$342_{18} = \chi_{39}$	.	.	1	.	1	.	1	.	.	.	.	.	.	.	.
$342_{20} = \chi_{40}$	1	1	.	1	.	.	.	.	1	.	.	.	1	1	.
$399_2 = \chi_{41}$	.	.	.	.	.	2	.	1	.	.	.	1	.	.	1
$399_4 = \chi_{42}$	.	.	2	.	.	.	1	.	.	1	.	.	.	.	.
$456_2 = \chi_{43}$	1	1	.	2	.	1	.	.	1	.	1	.	1	1	.

(Blocks 3, 4:)	φ_{33}		
$57_2 = \chi_{23}$.		
$57_4 = \chi_{24}$.		
$96_1 = \chi_{25}$.	$\varphi_{18} = 3_1$	
$96_3 = \chi_{26}$.	$\varphi_{19} = 6_1$	
$96_5 = \chi_{27}$.	$\varphi_{20} = 15_1$	
$288_7 = \chi_{28}$	1	$\varphi_{21} = 15_3$	
$288_9 = \chi_{29}$.	$\varphi_{22} = 21_1$	
$288_{11} = \chi_{30}$.	$\varphi_{23} = 24_1$	
$288_{13} = \chi_{31}$.	$\varphi_{24} = 33_1$	
$288_{15} = \chi_{32}$.	$\varphi_{25} = 36_1$	
$288_{17} = \chi_{33}$.	$\varphi_{26} = 42_1$	
$342_8 = \chi_{34}$.	$\varphi_{27} = 63_1$	
$342_{10} = \chi_{35}$.	$\varphi_{28} = 75_1$	
$342_{12} = \chi_{36}$.	$\varphi_{29} = 105_1$	
$342_{14} = \chi_{37}$.	$\varphi_{30} = 114_1$	
$342_{16} = \chi_{38}$.	$\varphi_{31} = 162_1$	
$342_{18} = \chi_{39}$	1	$\varphi_{32} = 210_1$	
$342_{20} = \chi_{40}$.	$\varphi_{33} = 273_1$	
$399_2 = \chi_{41}$.		
$399_4 = \chi_{42}$	1		
$456_2 = \chi_{43}$.		