

## $L_3(5) \pmod{31}$

	blocks	defect	matrix
$G :$	1	1	$13 \times 3$
	2	0	$31_1 = \chi_3, \varphi_3$
	3	0	$31_2 = \chi_4, \varphi_4$
	$4 = \bar{3}$	0	$31_3 = \chi_5, \varphi_5$
	5	0	$124_1 = \chi_{16}, \varphi_7$
	6	0	$124_2 = \chi_{17}, \varphi_8$
	7	0	$124_3 = \chi_{18}, \varphi_9$
	$8 = \bar{7}$	0	$124_4 = \chi_{19}, \varphi_{10}$
	9	0	$124_5 = \chi_{20}, \varphi_{11}$

  

	blocks	defect	matrix
	$10 = \bar{9}$	0	$124_6 = \chi_{21}, \varphi_{12}$
	11	0	$124_7 = \chi_{22}, \varphi_{13}$
	$12 = \bar{11}$	0	$124_8 = \chi_{23}, \varphi_{14}$
	13	0	$124_9 = \chi_{24}, \varphi_{15}$
	$14 = \bar{13}$	0	$124_{10} = \chi_{25}, \varphi_{16}$
	15	0	$155_1 = \chi_{27}, \varphi_{17}$
	16	0	$155_2 = \chi_{28}, \varphi_{18}$
	$17 = \bar{16}$	0	$155_3 = \chi_{29}, \varphi_{19}$
	18	0	$186_1 = \chi_{30}, \varphi_{20}$

<b>Block 1:</b>	$\varphi_1$	$\varphi_2$	$\varphi_6$	
$1_1 = \chi_1$	1	.	.	
$30_1 = \chi_2$	1	1	.	
$96_1 = \chi_6$	.	.	1	
$96_2 = \chi_7$	.	.	1	
$96_3 = \chi_8$	.	.	1	
$96_4 = \chi_9$	.	.	1	
$96_5 = \chi_{10}$	.	.	1	
$96_6 = \chi_{11}$	.	.	1	
$96_7 = \chi_{12}$	.	.	1	
$96_8 = \chi_{13}$	.	.	1	
$96_9 = \chi_{14}$	.	.	1	
$96_{10} = \chi_{15}$	.	.	1	
$125_1 = \chi_{26}$	.	1	1	

  

$\varphi_1 = 1_1$
$\varphi_2 = 29_1$
$\varphi_6 = 96_1$