

# $U_3(5) \pmod{5}$

	blocks	defect	matrix
$G :$	1 2	3 0	$13 \times 8$ $125_1 = \chi_9, \varphi_9$
$3.G :$	3 $4 = 3^*$	3	$13 \times 8$

<b>Block 1:</b>	$\varphi_1$	$\varphi_2$	$\varphi_3$	$\varphi_4$	$\varphi_5$	$\varphi_6$	$\varphi_7$	$\varphi_8$	
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	$\varphi_1 = 1_1$
$20_1 = \chi_2$	.	.	1	1	.	.	.	.	$\varphi_2 = 8_1$
$21_1 = \chi_3$	2	.	.	.	1	.	.	.	$\varphi_3 = 10_1$
$28_1 = \chi_4$	1	1	.	.	1	.	.	.	$\varphi_4 = 10_2$
$28_2 = \chi_5$	1	1	.	.	1	.	.	.	$\varphi_5 = 19_1$
$28_3 = \chi_6$	1	1	.	.	1	.	.	.	$\varphi_6 = 35_1$
$84_1 = \chi_7$	1	.	1	1	.	.	.	1	$\varphi_7 = 35_2$
$105_1 = \chi_8$	.	2	.	.	1	1	1	.	$\varphi_8 = 63_1$
$126_1 = \chi_{10}$	1	3	.	.	2	.	.	1	
$126_2 = \chi_{11}$	.	1	1	1	.	1	.	1	
$126_3 = \chi_{12}$	.	1	1	1	.	.	1	1	
$144_1 = \chi_{13}$	1	2	.	1	1	.	1	1	
$144_2 = \chi_{14}$	1	2	1	.	1	1	.	1	

<b>Blocks 3, 4:</b>	$\varphi_{10}$	$\varphi_{11}$	$\varphi_{12}$	$\varphi_{13}$	$\varphi_{14}$	$\varphi_{15}$	$\varphi_{16}$	$\varphi_{17}$	
$21_2 = \chi_{15}$	1	.	.	.	1	.	.	.	$\varphi_{10} = 3_1$
$21_4 = \chi_{16}$	.	1	.	1	.	.	.	.	$\varphi_{11} = 6_1$
$48_1 = \chi_{17}$	1	1	.	.	.	1	.	.	$\varphi_{12} = 15_1$
$48_3 = \chi_{18}$	1	1	.	.	.	1	.	.	$\varphi_{13} = 15_3$
$48_5 = \chi_{19}$	1	1	.	.	.	1	.	.	$\varphi_{14} = 18_1$
$84_2 = \chi_{20}$	2	1	1	.	1	1	.	.	$\varphi_{15} = 39_1$
$105_2 = \chi_{21}$	.	2	.	1	1	.	1	.	$\varphi_{16} = 60_1$
$105_4 = \chi_{22}$	.	.	.	1	.	.	.	1	$\varphi_{17} = 90_1$
$126_4 = \chi_{23}$	.	2	1	.	.	1	1	.	
$126_6 = \chi_{24}$	1	.	1	.	1	.	.	1	
$126_8 = \chi_{25}$	3	1	1	.	1	2	.	.	
$144_3 = \chi_{26}$	.	1	1	1	1	.	.	1	
$144_5 = \chi_{27}$	2	1	1	.	1	1	1	.	