

$U_3(5) \pmod{7}$

	blocks	defect	matrix
$G :$	1	1	5×3
	2	0	$21_1 = \chi_3, \varphi_3$
	3	0	$28_1 = \chi_4, \varphi_4$
	4	0	$28_2 = \chi_5, \varphi_5$
	5	0	$28_3 = \chi_6, \varphi_6$
	6	0	$84_1 = \chi_7, \varphi_7$
	7	0	$105_1 = \chi_8, \varphi_8$
	8	0	$126_1 = \chi_{10}, \varphi_{10}$
	9	0	$126_2 = \chi_{11}, \varphi_{11}$
	$10 = \bar{9}$	0	$126_3 = \chi_{12}, \varphi_{12}$
$3.G :$	11	0	$21_2 = \chi_{15}, \varphi_{13}$
	$12 = 11^*$		
	13	0	$21_4 = \chi_{16}, \varphi_{14}$
	$14 = 13^*$		

	blocks	defect	matrix
	15	1	5×3
	$16 = 15^*$		
	17	0	$84_2 = \chi_{20}, \varphi_{18}$
	$18 = 17^*$		
	19	0	$105_2 = \chi_{21}, \varphi_{19}$
	$20 = 19^*$		
	21	0	$105_4 = \chi_{22}, \varphi_{20}$
	$22 = 21^*$		
	23	0	$126_4 = \chi_{23}, \varphi_{21}$
	$24 = 23^*$		
	25	0	$126_6 = \chi_{24}, \varphi_{22}$
	$26 = 25^*$		
	$27 = \bar{26}$	0	$126_8 = \chi_{25}, \varphi_{23}$
	$28 = 27^*$		

Block 1:	φ_1	φ_2	φ_9	
$1_1 = \chi_1$	1	.	.	$\varphi_1 = 1_1$
$20_1 = \chi_2$	.	1	.	$\varphi_2 = 20_1$
$125_1 = \chi_9$	1	.	1	$\varphi_9 = 124_1$
$144_1 = \chi_{13}$	.	1	1	
$144_2 = \chi_{14}$	.	1	1	

Blocks 15, 16:	φ_{15}	φ_{16}	φ_{17}	
$48_1 = \chi_{17}$	1	.	.	$\varphi_{15} = 48_1$
$48_3 = \chi_{18}$	.	1	.	$\varphi_{16} = 48_3$
$48_5 = \chi_{19}$	.	.	1	$\varphi_{17} = 48_5$
$144_3 = \chi_{26}$	1	1	1	
$144_5 = \chi_{27}$	1	1	1	