

$U_3(5).3 \pmod{3}$

	blocks	defect	matrix
$3.G :$	1	4	24×3
	2	3	27×2
	3	2	9×1
	4	2	9×1
	$5 = \bar{4}$	2	9×1
	6	2	9×1
	$7 = \bar{6}$	2	9×1

Block 1:	$\varphi_{1,0}$	$\varphi_{2,0}$	φ_{4+}	
$1_1 = \chi_{1,0}$	1	.	.	
$1_2 = \chi_{1,1}$	1	.	.	
$1_3 = \chi_{1,2}$	1	.	.	
$20_1 = \chi_{2,0}$	.	1	.	
$20_2 = \chi_{2,1}$	.	1	.	
$20_3 = \chi_{2,2}$	.	1	.	
$84_1 = \chi_{4+}$	.	.	1	
$125_1 = \chi_{9,0}$	1	2	1	
$125_2 = \chi_{9,1}$	1	2	1	
$125_3 = \chi_{9,2}$	1	2	1	
$21_4 = \chi_{15,0}$	1	1	.	$\varphi_{1,0} = 1_1$
$21_5 = \chi_{15,1}$	1	1	.	$\varphi_{2,0} = 20_1$
$21_6 = \chi_{15,2}$	1	1	.	$\varphi_{4+} = 84_1$
$21_7 = \chi_{15,0}^{*2}$	1	1	.	
$21_8 = \chi_{15,1}^{*2}$	1	1	.	
$21_9 = \chi_{15,2}^{*2}$	1	1	.	
$144_7 = \chi_{17+}$	.	3	1	
$144_8 = \chi_{17*2+}$	.	3	1	
$105_4 = \chi_{21,0}$	1	1	1	
$105_5 = \chi_{21,1}$	1	1	1	
$105_6 = \chi_{21,2}$	1	1	1	
$105_7 = \chi_{21,0}^{*2}$	1	1	1	
$105_8 = \chi_{21,1}^{*2}$	1	1	1	
$105_9 = \chi_{21,2}^{*2}$	1	1	1	

Block 2:	$\varphi_{3,0}$	$\varphi_{7,0}$	
$21_1 = \chi_{3,0}$	1	.	
$21_2 = \chi_{3,1}$	1	.	
$21_3 = \chi_{3,2}$	1	.	
$84_2 = \chi_{7,0}$	.	1	
$84_3 = \chi_{7,1}$	.	1	
$84_4 = \chi_{7,2}$	.	1	
$105_1 = \chi_{8,0}$	1	1	
$105_2 = \chi_{8,1}$	1	1	
$105_3 = \chi_{8,2}$	1	1	
$21_{10} = \chi_{16,0}$	1	.	
$21_{11} = \chi_{16,1}$	1	.	
$21_{12} = \chi_{16,2}$	1	.	
$21_{13} = \chi_{16,0}^{*2}$	1	.	$\varphi_{3,0} = 21_1$
$21_{14} = \chi_{16,1}^{*2}$	1	.	$\varphi_{7,0} = 84_2$
$21_{15} = \chi_{16,2}^{*2}$	1	.	
$84_5 = \chi_{20,0}$	.	1	
$84_6 = \chi_{20,1}$	.	1	
$84_7 = \chi_{20,2}$	.	1	
$84_8 = \chi_{20,0}^{*2}$	.	1	
$84_9 = \chi_{20,1}^{*2}$	.	1	
$84_{10} = \chi_{20,2}^{*2}$	.	1	
$105_{10} = \chi_{22,0}$	1	1	
$105_{11} = \chi_{22,1}$	1	1	
$105_{12} = \chi_{22,2}$	1	1	
$105_{13} = \chi_{22,0}^{*2}$	1	1	
$105_{14} = \chi_{22,1}^{*2}$	1	1	
$105_{15} = \chi_{22,2}^{*2}$	1	1	

Block 3:	$\varphi_{8,0}$	
$126_1 = \chi_{10,0}$	1	
$126_2 = \chi_{10,1}$	1	
$126_3 = \chi_{10,2}$	1	
$126_{10} = \chi_{23,0}$	1	$\varphi_{8,0} = 126_1$
$126_{11} = \chi_{23,1}$	1	
$126_{12} = \chi_{23,2}$	1	
$126_{13} = \chi_{23,0}^{*2}$	1	
$126_{14} = \chi_{23,1}^{*2}$	1	
$126_{15} = \chi_{23,2}^{*2}$	1	

Block 4:	$\varphi_{9,0}$	
$126_4 = \chi_{11,0}$	1	
$126_5 = \chi_{11,1}$	1	
$126_6 = \chi_{11,2}$	1	
$126_{16} = \chi_{24,0}$	1	$\varphi_{9,0} = 126_2$
$126_{17} = \chi_{24,1}$	1	
$126_{18} = \chi_{24,2}$	1	
$126_{19} = \chi_{24,0}^{*17}$	1	
$126_{20} = \chi_{24,1}^{*17}$	1	
$126_{21} = \chi_{24,2}^{*17}$	1	

Block 5:	$\varphi_{10,0}$	
$126_7 = \chi_{12,0}$	1	
$126_8 = \chi_{12,1}$	1	
$126_9 = \chi_{12,2}$	1	
$126_{22} = \chi_{25,0}$	1	$\varphi_{10,0} = 126_3$
$126_{23} = \chi_{25,1}$	1	
$126_{24} = \chi_{25,2}$	1	
$126_{25} = \chi_{25,0}^{*17}$	1	
$126_{26} = \chi_{25,1}^{*17}$	1	
$126_{27} = \chi_{25,2}^{*17}$	1	

Block 6:	$\varphi_{11,0}$	
$144_1 = \chi_{13,0}$	1	
$144_2 = \chi_{13,1}$	1	
$144_3 = \chi_{13,2}$	1	
$144_9 = \chi_{26,0}$	1	$\varphi_{11,0} = 144_1$
$144_{10} = \chi_{26,1}$	1	
$144_{11} = \chi_{26,2}$	1	
$144_{12} = \chi_{26,0}^{*8}$	1	
$144_{13} = \chi_{26,1}^{*8}$	1	
$144_{14} = \chi_{26,2}^{*8}$	1	

Block 7:	$\varphi_{12,0}$
$144_4 = \chi_{14,0}$	1
$144_5 = \chi_{14,1}$	1
$144_6 = \chi_{14,2}$	1
$144_{15} = \chi_{27,0}$	1
$144_{16} = \chi_{27,1}$	1
$144_{17} = \chi_{27,2}$	1
$144_{18} = \chi_{27,0}^{*8}$	1
$144_{19} = \chi_{27,1}^{*8}$	1
$144_{20} = \chi_{27,2}^{*8}$	1

$$\varphi_{12,0} = 144_2$$