

$U_3(5) \pmod{3}$

	blocks	defect	matrix
$3.G :$	1	3	16×5
	2	2	9×2
	3	1	3×1
	4	1	3×1
	$5 = \bar{4}$	1	3×1
	6	1	3×1
	$7 = \bar{6}$	1	3×1

Block 1:	φ_1	φ_2	φ_4	φ_5	φ_6
$1_1 = \chi_1$	1	.	.	.	.
$20_1 = \chi_2$	.	1	.	.	.
$28_1 = \chi_4$	.	.	1	.	.
$28_2 = \chi_5$	.	.	.	1	.
$28_3 = \chi_6$	.	.	.	.	1
$125_1 = \chi_9$	1	2	1	1	1
$21_2 = \chi_{15}$	1	1	.	.	.
$21_3 = \chi_{15}^{*2}$	1	1	.	.	.
$48_1 = \chi_{17}$	.	1	1	.	.
$48_2 = \chi_{17}^{*2}$	.	1	1	.	.
$48_3 = \chi_{18}$	.	1	.	1	.
$48_4 = \chi_{18}^{*2}$	.	1	.	1	.
$48_5 = \chi_{19}$	.	1	.	.	1
$48_6 = \chi_{19}^{*2}$	.	1	.	.	1
$105_2 = \chi_{21}$	1	1	1	1	1
$105_3 = \chi_{21}^{*2}$	1	1	1	1	1

$$\begin{aligned} \varphi_1 &= 1_1 \\ \varphi_2 &= 20_1 \\ \varphi_4 &= 28_1 \\ \varphi_5 &= 28_2 \\ \varphi_6 &= 28_3 \end{aligned}$$

Block 2:	φ_3	φ_7
$21_1 = \chi_3$	1	.
$84_1 = \chi_7$	.	1
$105_1 = \chi_8$	1	1
$21_4 = \chi_{16}$	1	.
$21_5 = \chi_{16}^{*2}$	1	.
$84_2 = \chi_{20}$	.	1
$84_3 = \chi_{20}^{*2}$	.	1
$105_4 = \chi_{22}$	1	1
$105_5 = \chi_{22}^{*2}$	1	1

$$\begin{aligned} \varphi_3 &= 21_1 \\ \varphi_7 &= 84_1 \end{aligned}$$

Block 3:	φ_8
$126_1 = \chi_{10}$	1
$126_4 = \chi_{23}$	1
$126_5 = \chi_{23}^{*2}$	1

$$\varphi_8 = 126_1$$

Block 4:	φ_9
$126_2 = \chi_{11}$	1
$126_6 = \chi_{24}$	1
$126_7 = \chi_{24}^{*17}$	1

$$\varphi_9 = 126_2$$

Block 5:	φ_{10}
$126_3 = \chi_{12}$	1
$126_8 = \chi_{25}$	1
$126_9 = \chi_{25}^{*17}$	1

$$\varphi_{10} = 126_3$$

Block 6:	φ_{11}
$144_1 = \chi_{13}$	1
$144_3 = \chi_{26}$	1
$144_4 = \chi_{26}^{*8}$	1

$$\varphi_{11} = 144_1$$

Block 7:	φ_{12}
$144_2 = \chi_{14}$	1
$144_5 = \chi_{27}$	1
$144_6 = \chi_{27}^{*8}$	1

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