

$$U_5(2).2 \pmod{3}$$

	blocks	defect	matrix
$G:$	1	5	39×14
	2	1	3×2
	3	0	$2430_1 = \chi_{46+}, \varphi_{9+}$

Block 1:	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{2,0}$	$\varphi_{2,1}$	$\varphi_{3,0}$	$\varphi_{3,1}$	$\varphi_{4,0}$	$\varphi_{4,1}$	$\varphi_{5,0}$	$\varphi_{5,1}$	$\varphi_{6,0}$	$\varphi_{6,1}$	$\varphi_{7,0}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	.	1	.	.	.	.	.	.	.	.	.	.	.
$10_1 = \chi_{2,0}$	.	.	1	.	.	.	.	.	.	.	.	.	.
$10_2 = \chi_{2,1}$	.	.	.	1	.	.	.	.	.	.	.	.	.
$22_1 = \chi_{3+}$	1	1	1	1	.	.	.	.	.	.	.	.	.
$44_1 = \chi_{5,0}$	.	.	.	.	1	.	.	.	.	.	.	.	.
$44_2 = \chi_{5,1}$	.	.	.	.	.	1	.	.	.	.	.	.	.
$55_1 = \chi_{6,0}$	.	.	.	.	.	.	1	.	.	.	.	.	.
$55_2 = \chi_{6,1}$	.	.	.	.	.	.	.	1	.	.	.	.	.
$110_1 = \chi_{7+}$	1	1	1	1	1	1	.	.	.	.	.	.	.
$132_1 = \chi_{9+}$	1	1	1	1	.	.	1	1	.	.	.	.	.
$110_2 = \chi_{11,0}$	.	.	.	.	.	.	.	.	.	.	1	.	.
$110_3 = \chi_{11,1}$	.	.	.	.	.	.	.	.	.	.	.	1	.
$220_1 = \chi_{12+}$	1	1	1	1	1	1	1	1	.	.	.	.	.
$220_2 = \chi_{14+}$	.	.	1	1	.	.	.	.	1	1	.	.	.
$120_1 = \chi_{16,0}$	1	.	1	1	1	.	1	.	.	.	.	.	.
$120_2 = \chi_{16,1}$	.	1	1	1	.	1	.	1	.	.	.	.	.
$165_1 = \chi_{17,0}$	.	1	1	1	1	.	.	.	1	.	.	.	.
$165_2 = \chi_{17,1}$	1	.	1	1	.	1	.	.	.	1	.	.	.
$176_1 = \chi_{18,0}$	1	.	1	1	.	.	1	.	.	1	.	.	.
$176_2 = \chi_{18,1}$	.	1	1	1	.	.	.	1	1	.	.	.	.
$440_1 = \chi_{19+}$	.	.	1	1	.	.	.	.	1	1	1	1	.
$440_2 = \chi_{21+}$	1	1	2	2	1	1	1	1	1	1	.	.	.
$528_1 = \chi_{23+}$	.	.	1	1	1	1	.	.	1	1	1	1	.
$320_1 = \chi_{25,0}$	.	.	1	.	.	.	.	.	1	1	1	.	.
$320_2 = \chi_{25,1}$	.	.	.	1	.	.	.	.	1	1	.	1	.
$660_1 = \chi_{26+}$	1	1	2	2	1	1	1	1	1	1	1	1	.
$440_3 = \chi_{28,0}$	.	.	.	.	.	.	1	.	.	.	.	.	1
$440_4 = \chi_{28,1}$	.	.	.	.	.	.	.	1	.	.	.	.	.
$880_1 = \chi_{29+}$	1	1	3	3	1	1	1	1	2	2	1	1	.
$990_1 = \chi_{31+}$	.	.	3	3	.	.	1	1	3	3	1	1	.
$990_2 = \chi_{33+}$	.	.	.	.	.	.	.	.	.	.	1	1	1
$660_2 = \chi_{35,0}$	.	1	1	1	1	.	1	1	1	.	.	.	1
$660_3 = \chi_{35,1}$	1	.	1	1	.	1	1	1	.	1	.	.	.
$1408_1 = \chi_{36+}$	.	.	1	1	1	1	1	1	1	1	1	1	1
$1760_1 = \chi_{38+}$	1	1	3	3	1	1	2	2	2	2	1	1	1
$1980_1 = \chi_{43+}$	.	.	3	3	.	.	1	1	3	3	2	2	1
$1024_1 = \chi_{45,0}$	.	.	1	1	1	.	1	.	2	1	1	1	1
$1024_2 = \chi_{45,1}$	.	.	1	1	.	1	.	1	1	2	1	1	.

(Block 1:)	$\varphi_{7,1}$		
$1_1 = \chi_{1,0}$	.		
$1_2 = \chi_{1,1}$	.		
$10_1 = \chi_{2,0}$	.		
$10_2 = \chi_{2,1}$	.		
$22_1 = \chi_{3+}$	.		
$44_1 = \chi_{5,0}$	.		
$44_2 = \chi_{5,1}$	.		
$55_1 = \chi_{6,0}$	.		
$55_2 = \chi_{6,1}$	.		
$110_1 = \chi_{7+}$	.		
$132_1 = \chi_{9+}$	.		
$110_2 = \chi_{11,0}$	.		
$110_3 = \chi_{11,1}$	.	$\varphi_{1,0} =$	1_1
$220_1 = \chi_{12+}$	.	$\varphi_{1,1} =$	1_2
$220_2 = \chi_{14+}$	.	$\varphi_{2,0} =$	10_1
$120_1 = \chi_{16,0}$	.	$\varphi_{2,1} =$	10_2
$120_2 = \chi_{16,1}$	.	$\varphi_{3,0} =$	44_1
$165_1 = \chi_{17,0}$	.	$\varphi_{3,1} =$	44_2
$165_2 = \chi_{17,1}$	.	$\varphi_{4,0} =$	55_1
$176_1 = \chi_{18,0}$	.	$\varphi_{4,1} =$	55_2
$176_2 = \chi_{18,1}$	.	$\varphi_{5,0} =$	100_1
$440_1 = \chi_{19+}$	.	$\varphi_{5,1} =$	100_2
$440_2 = \chi_{21+}$	.	$\varphi_{6,0} =$	110_1
$528_1 = \chi_{23+}$	.	$\varphi_{6,1} =$	110_2
$320_1 = \chi_{25,0}$	.	$\varphi_{7,0} =$	385_1
$320_2 = \chi_{25,1}$	.	$\varphi_{7,1} =$	385_2
$660_1 = \chi_{26+}$	.		
$440_3 = \chi_{28,0}$	.		
$440_4 = \chi_{28,1}$	1		
$880_1 = \chi_{29+}$	.		
$990_1 = \chi_{31+}$	.		
$990_2 = \chi_{33+}$	1		
$660_2 = \chi_{35,0}$	.		
$660_3 = \chi_{35,1}$	1		
$1408_1 = \chi_{36+}$	1		
$1760_1 = \chi_{38+}$	1		
$1980_1 = \chi_{43+}$	1		
$1024_1 = \chi_{45,0}$	.		
$1024_2 = \chi_{45,1}$	1		

Block 2:	$\varphi_{8,0}$	$\varphi_{8,1}$
$891_1 = \chi_{40,0}$	1	.
$891_2 = \chi_{40,1}$	.	1
$1782_1 = \chi_{41+}$	1	1

$$\begin{aligned} \varphi_{8,0} &= 891_1 \\ \varphi_{8,1} &= 891_2 \end{aligned}$$