

## $U_3(5).2 \pmod{7}$

	blocks	defect	matrix
$G :$	1	1	$7 \times 6$
	2	0	$21_1 = \chi_{3,0}, \varphi_{3,0}$
	3	0	$21_2 = \chi_{3,1}, \varphi_{3,1}$
	4	0	$28_1 = \chi_{4,0}, \varphi_{4,0}$
	5	0	$28_2 = \chi_{4,1}, \varphi_{4,1}$
	6	0	$56_1 = \chi_{5+}, \varphi_{5+}$
	7	0	$84_1 = \chi_{7,0}, \varphi_{7,0}$
	8	0	$84_2 = \chi_{7,1}, \varphi_{7,1}$
	9	0	$105_1 = \chi_{8,0}, \varphi_{8,0}$
	10	0	$105_2 = \chi_{8,1}, \varphi_{8,1}$
	11	0	$126_1 = \chi_{10,0}, \varphi_{10,0}$

	blocks	defect	matrix
	12	0	$126_2 = \chi_{10,1}, \varphi_{10,1}$
	13	0	$252_1 = \chi_{11+}, \varphi_{11+}$
$3.G :$	14	0	$42_1 = \chi_{15+}, \varphi_{13+}$
	15	0	$42_2 = \chi_{16+}, \varphi_{14+}$
	16	1	$5 \times 3$
	17	0	$168_1 = \chi_{20+}, \varphi_{18+}$
	18	0	$210_1 = \chi_{21+}, \varphi_{19+}$
	19	0	$210_2 = \chi_{22+}, \varphi_{20+}$
	20	0	$252_2 = \chi_{23+}, \varphi_{21+}$
	21	0	$252_3 = \chi_{24+}, \varphi_{22+}$
	22	0	$252_4 = \chi_{25+}, \varphi_{23+}$

<b>Block 1:</b>	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{2,0}$	$\varphi_{2,1}$	$\varphi_{9,0}$	$\varphi_{9,1}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.
$1_2 = \chi_{1,1}$	.	1	.	.	.	.
$20_1 = \chi_{2,0}$	.	.	1	.	.	.
$20_2 = \chi_{2,1}$	.	.	.	1	.	.
$125_1 = \chi_{9,0}$	1	.	.	.	1	.
$125_2 = \chi_{9,1}$	.	1	.	.	.	1
$288_1 = \chi_{13+}$	.	.	1	1	1	1

$$\begin{aligned}
 \varphi_{1,0} &= 1_1 \\
 \varphi_{1,1} &= 1_2 \\
 \varphi_{2,0} &= 20_1 \\
 \varphi_{2,1} &= 20_2 \\
 \varphi_{9,0} &= 124_1 \\
 \varphi_{9,1} &= 124_2
 \end{aligned}$$

<b>Block 16:</b>	$\varphi_{15+}$	$\varphi_{16+}$	$\varphi_{17+}$
$96_1 = \chi_{17+}$	1	.	.
$96_2 = \chi_{18+}$	.	1	.
$96_3 = \chi_{19+}$	.	.	1
$288_2 = \chi_{26+}$	1	1	1
$288_3 = \chi_{27+}$	1	1	1

$$\begin{aligned}
 \varphi_{15+} &= 96_1 \\
 \varphi_{16+} &= 96_2 \\
 \varphi_{17+} &= 96_3
 \end{aligned}$$