

$$U_5(2) \pmod{5}$$

	blocks	defect	matrix
$G :$	1	1	5×4
	2	0	$10_1 = \chi_2, \varphi_2$
	3	1	5×4
	$4 = \overline{3}$	1	5×4
	5	0	$55_1 = \chi_6, \varphi_6$
	6	0	$55_2 = \chi_7, \varphi_7$
	$7 = \overline{6}$	0	$55_3 = \chi_8, \varphi_8$
	8	0	$110_1 = \chi_{11}, \varphi_{11}$
	9	0	$110_2 = \chi_{12}, \varphi_{12}$
	$10 = \overline{9}$	0	$110_3 = \chi_{13}, \varphi_{13}$
	11	0	$110_4 = \chi_{14}, \varphi_{14}$
	$12 = \overline{11}$	0	$110_5 = \chi_{15}, \varphi_{15}$
	13	0	$120_1 = \chi_{16}, \varphi_{16}$
	14	0	$165_1 = \chi_{17}, \varphi_{17}$
	15	0	$220_1 = \chi_{19}, \varphi_{19}$
	$16 = \overline{15}$	0	$220_2 = \chi_{20}, \varphi_{20}$
	17	0	$220_3 = \chi_{21}, \varphi_{21}$
	$18 = \overline{17}$	0	$220_4 = \chi_{22}, \varphi_{22}$
	19	0	$320_1 = \chi_{25}, \varphi_{25}$
	20	0	$330_1 = \chi_{26}, \varphi_{26}$
	$21 = \overline{20}$	0	$330_2 = \chi_{27}, \varphi_{27}$
	22	0	$440_1 = \chi_{28}, \varphi_{28}$
	23	0	$440_2 = \chi_{29}, \varphi_{29}$
	$24 = \overline{23}$	0	$440_3 = \chi_{30}, \varphi_{30}$
	25	0	$495_1 = \chi_{31}, \varphi_{31}$
	$26 = \overline{25}$	0	$495_2 = \chi_{32}, \varphi_{32}$
	27	0	$495_3 = \chi_{33}, \varphi_{33}$
	$28 = \overline{27}$	0	$495_4 = \chi_{34}, \varphi_{34}$
	29	0	$660_1 = \chi_{35}, \varphi_{37}$
	30	0	$880_1 = \chi_{38}, \varphi_{39}$
	$31 = \overline{30}$	0	$880_2 = \chi_{39}, \varphi_{40}$
	32	0	$990_1 = \chi_{43}, \varphi_{41}$
	$33 = \overline{32}$	0	$990_2 = \chi_{44}, \varphi_{42}$
	34	0	$1215_1 = \chi_{46}, \varphi_{43}$
	$35 = \overline{34}$	0	$1215_2 = \chi_{47}, \varphi_{44}$

Block 1:	φ_1	φ_5	φ_{18}	φ_{38}
$1_1 = \chi_1$	1	.	.	.
$44_1 = \chi_5$	1	1	.	.
$176_1 = \chi_{18}$	.	.	1	.
$891_1 = \chi_{40}$	.	1	.	1
$1024_1 = \chi_{45}$	.	.	1	1

$$\begin{aligned}
\varphi_1 &= 1_1 \\
\varphi_5 &= 43_1 \\
\varphi_{18} &= 176_1 \\
\varphi_{38} &= 848_1
\end{aligned}$$

Block 3:	φ_3	φ_{10}	φ_{23}	φ_{35}
$11_1 = \chi_3$	1	.	.	.
$66_2 = \chi_{10}$	.	1	.	.
$264_1 = \chi_{23}$	1	.	1	.
$704_1 = \chi_{36}$	.	1	.	1
$891_3 = \chi_{42}$	.	.	1	1

$$\begin{aligned}
\varphi_3 &= 11_1 \\
\varphi_{10} &= 66_2 \\
\varphi_{23} &= 253_1 \\
\varphi_{35} &= 638_1
\end{aligned}$$

Block 4:	φ_4	φ_9	φ_{24}	φ_{36}
$11_2 = \chi_4$	1	.	.	.
$66_1 = \chi_9$	.	1	.	.
$264_2 = \chi_{24}$	1	.	1	.
$704_2 = \chi_{37}$	.	1	.	1
$891_2 = \chi_{41}$	.	.	1	1

$$\begin{aligned}
\varphi_4 &= 11_2 \\
\varphi_9 &= 66_1 \\
\varphi_{24} &= 253_2 \\
\varphi_{36} &= 638_2
\end{aligned}$$