

$U_3(7) \pmod{43}$

	blocks	defect	matrix		blocks	defect	matrix
$G :$	1	1	17×3		$22 = \overline{21}$	0	$301_7 = \chi_{23}, \varphi_{23}$
	2	0	$43_1 = \chi_3, \varphi_3$		23	0	$344_1 = \chi_{25}, \varphi_{25}$
	3	0	$43_2 = \chi_4, \varphi_4$		24	0	$344_2 = \chi_{26}, \varphi_{26}$
	$4 = \overline{3}$	0	$43_3 = \chi_5, \varphi_5$		25	0	$344_3 = \chi_{27}, \varphi_{27}$
	5	0	$43_4 = \chi_6, \varphi_6$		$26 = \overline{25}$	0	$344_4 = \chi_{28}, \varphi_{28}$
	$6 = \overline{5}$	0	$43_5 = \chi_7, \varphi_7$		27	0	$344_5 = \chi_{29}, \varphi_{29}$
	7	0	$43_6 = \chi_8, \varphi_8$		$28 = \overline{27}$	0	$344_6 = \chi_{30}, \varphi_{30}$
	$8 = \overline{7}$	0	$43_7 = \chi_9, \varphi_9$		29	0	$344_7 = \chi_{31}, \varphi_{31}$
	9	0	$258_1 = \chi_{10}, \varphi_{10}$		$30 = \overline{29}$	0	$344_8 = \chi_{32}, \varphi_{32}$
	10	0	$258_2 = \chi_{11}, \varphi_{11}$		31	0	$344_9 = \chi_{33}, \varphi_{33}$
	11	0	$258_3 = \chi_{12}, \varphi_{12}$		$32 = \overline{31}$	0	$344_{10} = \chi_{34}, \varphi_{34}$
	12	0	$258_4 = \chi_{13}, \varphi_{13}$		33	0	$344_{11} = \chi_{35}, \varphi_{35}$
	$13 = \overline{12}$	0	$258_5 = \chi_{14}, \varphi_{14}$		$34 = \overline{33}$	0	$344_{12} = \chi_{36}, \varphi_{36}$
	14	0	$258_6 = \chi_{15}, \varphi_{15}$		35	0	$344_{13} = \chi_{37}, \varphi_{37}$
	$15 = \overline{14}$	0	$258_7 = \chi_{16}, \varphi_{16}$		$36 = \overline{35}$	0	$344_{14} = \chi_{38}, \varphi_{38}$
	16	0	$301_1 = \chi_{17}, \varphi_{17}$		37	0	$344_{15} = \chi_{39}, \varphi_{39}$
	17	0	$301_2 = \chi_{18}, \varphi_{18}$		$38 = \overline{37}$	0	$344_{16} = \chi_{40}, \varphi_{40}$
	$18 = \overline{17}$	0	$301_3 = \chi_{19}, \varphi_{19}$		39	0	$344_{17} = \chi_{41}, \varphi_{41}$
	19	0	$301_4 = \chi_{20}, \varphi_{20}$		$40 = \overline{39}$	0	$344_{18} = \chi_{42}, \varphi_{42}$
	$20 = \overline{19}$	0	$301_5 = \chi_{21}, \varphi_{21}$		41	0	$344_{19} = \chi_{43}, \varphi_{43}$
	21	0	$301_6 = \chi_{22}, \varphi_{22}$		$42 = \overline{41}$	0	$344_{20} = \chi_{44}, \varphi_{44}$

Block 1:	φ_1	φ_2	φ_{24}
$1_1 = \chi_1$	1	.	.
$42_1 = \chi_2$.	1	.
$343_1 = \chi_{24}$	1	.	1
$384_1 = \chi_{45}$.	1	1
$384_2 = \chi_{46}$.	1	1
$384_3 = \chi_{47}$.	1	1
$384_4 = \chi_{48}$.	1	1
$384_5 = \chi_{49}$.	1	1
$384_6 = \chi_{50}$.	1	1
$384_7 = \chi_{51}$.	1	1
$384_8 = \chi_{52}$.	1	1
$384_9 = \chi_{53}$.	1	1
$384_{10} = \chi_{54}$.	1	1
$384_{11} = \chi_{55}$.	1	1
$384_{12} = \chi_{56}$.	1	1
$384_{13} = \chi_{57}$.	1	1
$384_{14} = \chi_{58}$.	1	1

$$\begin{aligned}
 \varphi_1 &= 1_1 \\
 \varphi_2 &= 42_1 \\
 \varphi_{24} &= 342_1
 \end{aligned}$$