

# $U_5(2) \pmod{11}$

	blocks	defect	matrix		blocks	defect	matrix
$G :$	1	1	$7 \times 5$		$22 = \overline{21}$	0	$264_2 = \chi_{24}, \varphi_{24}$
	2	0	$11_1 = \chi_3, \varphi_3$		23	0	$330_1 = \chi_{26}, \varphi_{26}$
	$3 = \overline{2}$	0	$11_2 = \chi_4, \varphi_4$		$24 = \overline{23}$	0	$330_2 = \chi_{27}, \varphi_{27}$
	4	0	$44_1 = \chi_5, \varphi_5$		25	0	$440_1 = \chi_{28}, \varphi_{28}$
	5	0	$55_1 = \chi_6, \varphi_6$		26	0	$440_2 = \chi_{29}, \varphi_{29}$
	6	0	$55_2 = \chi_7, \varphi_7$		$27 = \overline{26}$	0	$440_3 = \chi_{30}, \varphi_{30}$
	$7 = \overline{6}$	0	$55_3 = \chi_8, \varphi_8$		28	0	$495_1 = \chi_{31}, \varphi_{31}$
	8	0	$66_1 = \chi_9, \varphi_9$		$29 = \overline{28}$	0	$495_2 = \chi_{32}, \varphi_{32}$
	$9 = \overline{8}$	0	$66_2 = \chi_{10}, \varphi_{10}$		30	0	$495_3 = \chi_{33}, \varphi_{33}$
	10	0	$110_1 = \chi_{11}, \varphi_{11}$		$31 = \overline{30}$	0	$495_4 = \chi_{34}, \varphi_{34}$
	11	0	$110_2 = \chi_{12}, \varphi_{12}$		32	0	$660_1 = \chi_{35}, \varphi_{35}$
	$12 = \overline{11}$	0	$110_3 = \chi_{13}, \varphi_{13}$		33	0	$704_1 = \chi_{36}, \varphi_{36}$
	13	0	$110_4 = \chi_{14}, \varphi_{14}$		$34 = \overline{33}$	0	$704_2 = \chi_{37}, \varphi_{37}$
	$14 = \overline{13}$	0	$110_5 = \chi_{15}, \varphi_{15}$		35	0	$880_1 = \chi_{38}, \varphi_{38}$
	15	0	$165_1 = \chi_{17}, \varphi_{17}$		$36 = \overline{35}$	0	$880_2 = \chi_{39}, \varphi_{39}$
	16	0	$176_1 = \chi_{18}, \varphi_{18}$		37	0	$891_1 = \chi_{40}, \varphi_{40}$
	17	0	$220_1 = \chi_{19}, \varphi_{19}$		38	0	$891_2 = \chi_{41}, \varphi_{41}$
	$18 = \overline{17}$	0	$220_2 = \chi_{20}, \varphi_{20}$		$39 = \overline{38}$	0	$891_3 = \chi_{42}, \varphi_{42}$
	19	0	$220_3 = \chi_{21}, \varphi_{21}$		40	0	$990_1 = \chi_{43}, \varphi_{44}$
	$20 = \overline{19}$	0	$220_4 = \chi_{22}, \varphi_{22}$		$41 = \overline{40}$	0	$990_2 = \chi_{44}, \varphi_{45}$
	21	0	$264_1 = \chi_{23}, \varphi_{23}$				

<b>Block 1:</b>	$\varphi_1$	$\varphi_2$	$\varphi_{16}$	$\varphi_{25}$	$\varphi_{43}$	
$1_1 = \chi_1$	1	.	.	.	.	$\varphi_1 = 1_1$
$10_1 = \chi_2$	.	1	.	.	.	$\varphi_2 = 10_1$
$120_1 = \chi_{16}$	1	.	1	.	.	$\varphi_{16} = 119_1$
$320_1 = \chi_{25}$	.	1	.	1	.	$\varphi_{25} = 310_1$
$1024_1 = \chi_{45}$	.	.	1	.	1	$\varphi_{43} = 905_1$
$1215_1 = \chi_{46}$	.	.	.	1	1	
$1215_2 = \chi_{47}$	.	.	.	1	1	