

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

	blocks	defect	matrix
$G :$	1	1	11×10
	2	0	$22_1 = \chi_{3+}, \varphi_{3+}$
	3	0	$44_1 = \chi_{5,0}, \varphi_{5,0}$
	4	0	$44_2 = \chi_{5,1}, \varphi_{5,1}$
	5	0	$55_1 = \chi_{6,0}, \varphi_{6,0}$
	6	0	$55_2 = \chi_{6,1}, \varphi_{6,1}$
	7	0	$110_1 = \chi_{7+}, \varphi_{7+}$
	8	0	$132_1 = \chi_{9+}, \varphi_{9+}$
	9	0	$110_2 = \chi_{11,0}, \varphi_{11,0}$
	$10 = \bar{9}$	0	$110_3 = \chi_{11,1}, \varphi_{11,1}$
	11	0	$220_1 = \chi_{12+}, \varphi_{12+}$
	12	0	$220_2 = \chi_{14+}, \varphi_{14+}$
	13	0	$165_1 = \chi_{17,0}, \varphi_{17,0}$
	14	0	$165_2 = \chi_{17,1}, \varphi_{17,1}$
	15	0	$176_1 = \chi_{18,0}, \varphi_{18,0}$
	16	0	$176_2 = \chi_{18,1}, \varphi_{18,1}$
	17	0	$440_1 = \chi_{19+}, \varphi_{19+}$

	blocks	defect	matrix
	18	0	$440_2 = \chi_{21+}, \varphi_{21+}$
	19	0	$528_1 = \chi_{23+}, \varphi_{23+}$
	20	0	$660_1 = \chi_{26+}, \varphi_{26+}$
	21	0	$440_3 = \chi_{28,0}, \varphi_{28,0}$
	22	0	$440_4 = \chi_{28,1}, \varphi_{28,1}$
	23	0	$880_1 = \chi_{29+}, \varphi_{29+}$
	24	0	$990_1 = \chi_{31+}, \varphi_{31+}$
	25	0	$990_2 = \chi_{33+}, \varphi_{33+}$
	26	0	$660_2 = \chi_{35,0}, \varphi_{35,0}$
	27	0	$660_3 = \chi_{35,1}, \varphi_{35,1}$
	28	0	$1408_1 = \chi_{36+}, \varphi_{36+}$
	29	0	$1760_1 = \chi_{38+}, \varphi_{38+}$
	30	0	$891_1 = \chi_{40,0}, \varphi_{40,0}$
	31	0	$891_2 = \chi_{40,1}, \varphi_{40,1}$
	32	0	$1782_1 = \chi_{41+}, \varphi_{41+}$
	33	0	$1980_1 = \chi_{43+}, \varphi_{43+}$

Block 1:	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{2,0}$	$\varphi_{2,1}$	$\varphi_{16,0}$	$\varphi_{16,1}$	$\varphi_{25,0}$	$\varphi_{25,1}$	$\varphi_{43,0}$	$\varphi_{43,1}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$.	1	.	.	.	.	.	.	.	.
$10_1 = \chi_{2,0}$.	.	1	.	.	.	.	.	.	.
$10_2 = \chi_{2,1}$.	.	.	1	.	.	.	.	.	.
$120_1 = \chi_{16,0}$	1	.	.	.	1	.	.	.	.	.
$120_2 = \chi_{16,1}$.	1	.	.	.	1	.	.	.	.
$320_1 = \chi_{25,0}$.	.	1	.	.	.	1	.	.	.
$320_2 = \chi_{25,1}$.	.	.	1	.	.	.	1	.	.
$1024_1 = \chi_{45,0}$	1	.	.	.	1	.
$1024_2 = \chi_{45,1}$	1	.	.	.	1
$2430_1 = \chi_{46+}$	1	1	1	1

$$\begin{array}{ll}
 \varphi_{1,0} & = 1_1 \\
 \varphi_{1,1} & = 1_2 \\
 \varphi_{2,0} & = 10_1 \\
 \varphi_{2,1} & = 10_2 \\
 \varphi_{16,0} & = 119_1 \\
 \varphi_{16,1} & = 119_2 \\
 \varphi_{25,0} & = 310_1 \\
 \varphi_{25,1} & = 310_2 \\
 \varphi_{43,0} & = 905_1 \\
 \varphi_{43,1} & = 905_2
 \end{array}$$