

## $U_3(11).2 \pmod{37}$

	blocks	defect	matrix
$G :$	1	1	$12 \times 6$
	2	0	$111_1 = \chi_{3,0}, \varphi_{3,0}$
	3	0	$111_2 = \chi_{3,1}, \varphi_{3,1}$
	4	0	$222_1 = \chi_{4+}, \varphi_{4+}$
	5	0	$370_1 = \chi_{6,0}, \varphi_{6,0}$
	6	0	$370_2 = \chi_{6,1}, \varphi_{6,1}$
	7	0	$740_1 = \chi_{7+}, \varphi_{7+}$
	8	0	$1110_1 = \chi_{9,0}, \varphi_{9,0}$
	9	0	$1110_2 = \chi_{9,1}, \varphi_{9,1}$
	10	0	$1110_3 = \chi_{10,0}, \varphi_{10,0}$
	11	0	$1110_4 = \chi_{10,1}, \varphi_{10,1}$
	12	0	$1110_5 = \chi_{11,0}, \varphi_{11,0}$
	13	0	$1110_6 = \chi_{11,1}, \varphi_{11,1}$
	14	0	$1110_7 = \chi_{12,0}, \varphi_{12,0}$
	15	0	$1110_8 = \chi_{12,1}, \varphi_{12,1}$
	16	0	$2220_1 = \chi_{13+}, \varphi_{13+}$
	17	0	$1221_1 = \chi_{15,0}, \varphi_{15,0}$
	18	0	$1221_2 = \chi_{15,1}, \varphi_{15,1}$
	19	0	$2442_1 = \chi_{16+}, \varphi_{16+}$
	20	0	$2664_1 = \chi_{19+}, \varphi_{19+}$
	21	0	$1332_1 = \chi_{21,0}, \varphi_{21,0}$
	22	0	$1332_2 = \chi_{21,1}, \varphi_{21,1}$
	23	0	$1332_3 = \chi_{22,0}, \varphi_{22,0}$
	24	0	$1332_4 = \chi_{22,1}, \varphi_{22,1}$
	25	0	$1332_5 = \chi_{23,0}, \varphi_{23,0}$
	26	0	$1332_6 = \chi_{23,1}, \varphi_{23,1}$
	27	0	$1332_7 = \chi_{24,0}, \varphi_{24,0}$
	28	0	$1332_8 = \chi_{24,1}, \varphi_{24,1}$
	29	0	$2664_2 = \chi_{25+}, \varphi_{25+}$
	30	0	$2664_3 = \chi_{27+}, \varphi_{27+}$
	31	0	$2664_4 = \chi_{29+}, \varphi_{29+}$
	32	0	$2664_5 = \chi_{31+}, \varphi_{31+}$
	33	0	$2664_6 = \chi_{33+}, \varphi_{33+}$
	34	0	$2664_7 = \chi_{35+}, \varphi_{35+}$

	blocks	defect	matrix
$3.G :$	35	0	$222_2 = \chi_{49+}, \varphi_{37+}$
	36	0	$222_3 = \chi_{50+}, \varphi_{38+}$
	37	0	$222_4 = \chi_{51+}, \varphi_{39+}$
	38	0	$222_5 = \chi_{52+}, \varphi_{40+}$
	39	1	$15 \times 3$
	40	0	$2220_2 = \chi_{56+}, \varphi_{44+}$
	41	0	$2220_3 = \chi_{57+}, \varphi_{45+}$
	42	0	$2220_4 = \chi_{58+}, \varphi_{46+}$
	43	0	$2220_5 = \chi_{59+}, \varphi_{47+}$
	44	0	$2220_6 = \chi_{60+}, \varphi_{48+}$
	45	0	$2220_7 = \chi_{61+}, \varphi_{49+}$
	46	0	$2442_2 = \chi_{62+}, \varphi_{50+}$
	47	0	$2442_3 = \chi_{63+}, \varphi_{51+}$
	48	0	$2442_4 = \chi_{64+}, \varphi_{52+}$
	49	0	$2442_5 = \chi_{65+}, \varphi_{53+}$
	50	0	$2664_8 = \chi_{66+}, \varphi_{54+}$
	51	0	$2664_9 = \chi_{67+}, \varphi_{55+}$
	52	0	$2664_{10} = \chi_{68+}, \varphi_{56+}$
	53	0	$2664_{11} = \chi_{69+}, \varphi_{57+}$
	54	0	$2664_{12} = \chi_{70+}, \varphi_{58+}$
	55	0	$2664_{13} = \chi_{71+}, \varphi_{59+}$
	56	0	$2664_{14} = \chi_{72+}, \varphi_{60+}$
	57	0	$2664_{15} = \chi_{73+}, \varphi_{61+}$
	58	0	$2664_{16} = \chi_{74+}, \varphi_{62+}$
	59	0	$2664_{17} = \chi_{75+}, \varphi_{63+}$
	60	0	$2664_{18} = \chi_{76+}, \varphi_{64+}$
	61	0	$2664_{19} = \chi_{77+}, \varphi_{65+}$
	62	0	$2664_{20} = \chi_{78+}, \varphi_{66+}$
	63	0	$2664_{21} = \chi_{79+}, \varphi_{67+}$
	64	0	$2664_{22} = \chi_{80+}, \varphi_{68+}$
	65	0	$2664_{23} = \chi_{81+}, \varphi_{69+}$
	66	0	$2664_{24} = \chi_{82+}, \varphi_{70+}$
	67	0	$2664_{25} = \chi_{83+}, \varphi_{71+}$

<b>Block 1:</b>	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{2,0}$	$\varphi_{2,1}$	$\varphi_{18,0}$	$\varphi_{18,1}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.
$1_2 = \chi_{1,1}$	.	1	.	.	.	.
$110_1 = \chi_{2,0}$	.	.	1	.	.	.
$110_2 = \chi_{2,1}$	.	.	.	1	.	.
$1331_1 = \chi_{18,0}$	1	.	.	.	1	.
$1331_2 = \chi_{18,1}$	.	1	.	.	.	1
$2880_1 = \chi_{37+}$	.	.	1	1	1	1
$2880_2 = \chi_{39+}$	.	.	1	1	1	1
$2880_3 = \chi_{41+}$	.	.	1	1	1	1
$2880_4 = \chi_{43+}$	.	.	1	1	1	1
$2880_5 = \chi_{45+}$	.	.	1	1	1	1
$2880_6 = \chi_{47+}$	.	.	1	1	1	1

$$\begin{aligned} \varphi_{1,0} &= 1_1 \\ \varphi_{1,1} &= 1_2 \\ \varphi_{2,0} &= 110_1 \\ \varphi_{2,1} &= 110_2 \\ \varphi_{18,0} &= 1330_1 \\ \varphi_{18,1} &= 1330_2 \end{aligned}$$

<b>Block 39:</b>	$\varphi_{41+}$	$\varphi_{42+}$	$\varphi_{43+}$
$960_1 = \chi_{53+}$	1	.	.
$960_2 = \chi_{54+}$	.	1	.
$960_3 = \chi_{55+}$	.	.	1
$2880_7 = \chi_{84+}$	1	1	1
$2880_8 = \chi_{85+}$	1	1	1
$2880_9 = \chi_{86+}$	1	1	1
$2880_{10} = \chi_{87+}$	1	1	1
$2880_{11} = \chi_{88+}$	1	1	1
$2880_{12} = \chi_{89+}$	1	1	1
$2880_{13} = \chi_{90+}$	1	1	1
$2880_{14} = \chi_{91+}$	1	1	1
$2880_{15} = \chi_{92+}$	1	1	1
$2880_{16} = \chi_{93+}$	1	1	1
$2880_{17} = \chi_{94+}$	1	1	1
$2880_{18} = \chi_{95+}$	1	1	1

$$\begin{aligned} \varphi_{41+} &= 960_1 \\ \varphi_{42+} &= 960_2 \\ \varphi_{43+} &= 960_3 \end{aligned}$$