

$U_3(11) \pmod{37}$

	blocks	defect	matrix
$G :$	1	1	15×3
	2	0	$111_1 = \chi_3, \varphi_3$
	3	0	$111_2 = \chi_4, \varphi_4$
	$4 = \overline{3}$	0	$111_3 = \chi_5, \varphi_5$
	5	0	$370_1 = \chi_6, \varphi_6$
	6	0	$370_2 = \chi_7, \varphi_7$
	7	0	$370_3 = \chi_8, \varphi_8$
	8	0	$1110_1 = \chi_9, \varphi_9$
	9	0	$1110_2 = \chi_{10}, \varphi_{10}$
	10	0	$1110_3 = \chi_{11}, \varphi_{11}$
	11	0	$1110_4 = \chi_{12}, \varphi_{12}$
	12	0	$1110_5 = \chi_{13}, \varphi_{13}$
	$13 = \overline{12}$	0	$1110_6 = \chi_{14}, \varphi_{14}$
	14	0	$1221_1 = \chi_{15}, \varphi_{15}$
	15	0	$1221_2 = \chi_{16}, \varphi_{16}$
	$16 = \overline{15}$	0	$1221_3 = \chi_{17}, \varphi_{17}$
	17	0	$1332_1 = \chi_{19}, \varphi_{19}$
	$18 = \overline{17}$	0	$1332_2 = \chi_{20}, \varphi_{20}$
	19	0	$1332_3 = \chi_{21}, \varphi_{21}$
	20	0	$1332_4 = \chi_{22}, \varphi_{22}$
	21	0	$1332_5 = \chi_{23}, \varphi_{23}$
	22	0	$1332_6 = \chi_{24}, \varphi_{24}$
	23	0	$1332_7 = \chi_{25}, \varphi_{25}$
	$24 = \overline{23}$	0	$1332_8 = \chi_{26}, \varphi_{26}$
	25	0	$1332_9 = \chi_{27}, \varphi_{27}$
	$26 = \overline{25}$	0	$1332_{10} = \chi_{28}, \varphi_{28}$
	27	0	$1332_{11} = \chi_{29}, \varphi_{29}$
	$28 = \overline{27}$	0	$1332_{12} = \chi_{30}, \varphi_{30}$
	29	0	$1332_{13} = \chi_{31}, \varphi_{31}$
	$30 = \overline{29}$	0	$1332_{14} = \chi_{32}, \varphi_{32}$
	31	0	$1332_{15} = \chi_{33}, \varphi_{33}$
	$32 = \overline{31}$	0	$1332_{16} = \chi_{34}, \varphi_{34}$
	33	0	$1332_{17} = \chi_{35}, \varphi_{35}$
	$34 = \overline{33}$	0	$1332_{18} = \chi_{36}, \varphi_{36}$
$3.G :$	35	0	$111_4 = \chi_{49}, \varphi_{37}$
	$36 = 35^*$		
	37	0	$111_6 = \chi_{50}, \varphi_{38}$
	$38 = 37^*$		
	39	0	$111_8 = \chi_{51}, \varphi_{39}$
	$40 = 39^*$		

	blocks	defect	matrix
	41 = $\overline{40}$	0	$111_{10} = \chi_{52}, \varphi_{40}$
	42 = 41*		
	43	1	15×3
	44 = 43*		
	45	0	$1110_7 = \chi_{56}, \varphi_{44}$
	46 = 45*		
	47	0	$1110_9 = \chi_{57}, \varphi_{45}$
	48 = 47*		
	49	0	$1110_{11} = \chi_{58}, \varphi_{46}$
	50 = 49*		
	51 = $\overline{50}$	0	$1110_{13} = \chi_{59}, \varphi_{47}$
	52 = 51*		
	53	0	$1110_{15} = \chi_{60}, \varphi_{48}$
	54 = 53*		
	55 = $\overline{54}$	0	$1110_{17} = \chi_{61}, \varphi_{49}$
	56 = 55*		
	57	0	$1221_4 = \chi_{62}, \varphi_{50}$
	58 = 57*		
	59	0	$1221_6 = \chi_{63}, \varphi_{51}$
	60 = 59*		
	61	0	$1221_8 = \chi_{64}, \varphi_{52}$
	62 = 61*		
	63 = $\overline{62}$	0	$1221_{10} = \chi_{65}, \varphi_{53}$
	64 = 63*		
	65	0	$1332_{19} = \chi_{66}, \varphi_{54}$
	66 = 65*		
	67 = $\overline{66}$	0	$1332_{21} = \chi_{67}, \varphi_{55}$
	68 = 67*		
	69	0	$1332_{23} = \chi_{68}, \varphi_{56}$
	70 = 69*		
	71	0	$1332_{25} = \chi_{69}, \varphi_{57}$
	72 = 71*		
	73	0	$1332_{27} = \chi_{70}, \varphi_{58}$
	74 = 73*		
	75	0	$1332_{29} = \chi_{71}, \varphi_{59}$
	76 = 75*		
	77	0	$1332_{31} = \chi_{72}, \varphi_{60}$
	78 = 77*		
	79 = $\overline{78}$	0	$1332_{33} = \chi_{73}, \varphi_{61}$
	80 = 79*		

	blocks	defect	matrix
	81	0	$1332_{35} = \chi_{74}, \varphi_{62}$
	$82 = 81^*$		
	$83 = \overline{82}$	0	$1332_{37} = \chi_{75}, \varphi_{63}$
	$84 = 83^*$		
	85	0	$1332_{39} = \chi_{76}, \varphi_{64}$
	$86 = 85^*$		
	$87 = \overline{86}$	0	$1332_{41} = \chi_{77}, \varphi_{65}$
	$88 = 87^*$		
	89	0	$1332_{43} = \chi_{78}, \varphi_{66}$
	$90 = 89^*$		
	$91 = \overline{90}$	0	$1332_{45} = \chi_{79}, \varphi_{67}$
	$92 = 91^*$		
	93	0	$1332_{47} = \chi_{80}, \varphi_{68}$
	$94 = 93^*$		
	$95 = \overline{94}$	0	$1332_{49} = \chi_{81}, \varphi_{69}$
	$96 = 95^*$		
	97	0	$1332_{51} = \chi_{82}, \varphi_{70}$
	$98 = 97^*$		
	$99 = \overline{98}$	0	$1332_{53} = \chi_{83}, \varphi_{71}$
	$100 = 99^*$		

Block 1:	φ_1	φ_2	φ_{18}	
$1_1 = \chi_1$	1	.	.	
$110_1 = \chi_2$.	1	.	
$1331_1 = \chi_{18}$	1	.	1	
$1440_1 = \chi_{37}$.	1	1	
$1440_2 = \chi_{38}$.	1	1	
$1440_3 = \chi_{39}$.	1	1	$\varphi_1 = 1_1$
$1440_4 = \chi_{40}$.	1	1	$\varphi_2 = 110_1$
$1440_5 = \chi_{41}$.	1	1	$\varphi_{18} = 1330_1$
$1440_6 = \chi_{42}$.	1	1	
$1440_7 = \chi_{43}$.	1	1	
$1440_8 = \chi_{44}$.	1	1	
$1440_9 = \chi_{45}$.	1	1	
$1440_{10} = \chi_{46}$.	1	1	
$1440_{11} = \chi_{47}$.	1	1	
$1440_{12} = \chi_{48}$.	1	1	

Blocks 43, 44:	φ_{41}	φ_{42}	φ_{43}
$480_1 = \chi_{53}$	1	.	.
$480_3 = \chi_{54}$.	1	.
$480_5 = \chi_{55}$.	.	1
$1440_{13} = \chi_{84}$	1	1	1
$1440_{15} = \chi_{85}$	1	1	1
$1440_{17} = \chi_{86}$	1	1	1
$1440_{19} = \chi_{87}$	1	1	1
$1440_{21} = \chi_{88}$	1	1	1
$1440_{23} = \chi_{89}$	1	1	1
$1440_{25} = \chi_{90}$	1	1	1
$1440_{27} = \chi_{91}$	1	1	1
$1440_{29} = \chi_{92}$	1	1	1
$1440_{31} = \chi_{93}$	1	1	1
$1440_{33} = \chi_{94}$	1	1	1
$1440_{35} = \chi_{95}$	1	1	1

$$\begin{aligned} \varphi_{41} &= 480_1 \\ \varphi_{42} &= 480_3 \\ \varphi_{43} &= 480_5 \end{aligned}$$