

$U_3(11) \pmod{5}$

	blocks	defect	matrix
$G :$	1	1	4×2
	2	0	$110_1 = \chi_2, \varphi_2$
	3	1	4×2
	4	1	4×2
	$5 = \overline{4}$	1	4×2
	6	0	$370_1 = \chi_6, \varphi_6$
	7	0	$370_2 = \chi_7, \varphi_7$
	8	0	$370_3 = \chi_8, \varphi_8$
	9	0	$1110_1 = \chi_9, \varphi_9$
	10	0	$1110_2 = \chi_{10}, \varphi_{10}$
	11	0	$1110_3 = \chi_{11}, \varphi_{11}$
	12	0	$1110_4 = \chi_{12}, \varphi_{12}$
	13	0	$1110_5 = \chi_{13}, \varphi_{13}$
	$14 = \overline{13}$	0	$1110_6 = \chi_{14}, \varphi_{14}$
	15	1	5×1
	$16 = \overline{15}$	1	5×1
	17	0	$1440_1 = \chi_{37}, \varphi_{21}$
	$18 = \overline{17}$	0	$1440_2 = \chi_{38}, \varphi_{22}$
	19	0	$1440_3 = \chi_{39}, \varphi_{23}$
	$20 = \overline{19}$	0	$1440_4 = \chi_{40}, \varphi_{24}$
	21	0	$1440_5 = \chi_{41}, \varphi_{25}$
	$22 = \overline{21}$	0	$1440_6 = \chi_{42}, \varphi_{26}$
	23	0	$1440_7 = \chi_{43}, \varphi_{27}$
	$24 = \overline{23}$	0	$1440_8 = \chi_{44}, \varphi_{28}$
	25	0	$1440_9 = \chi_{45}, \varphi_{29}$
	$26 = \overline{25}$	0	$1440_{10} = \chi_{46}, \varphi_{30}$
	27	0	$1440_{11} = \chi_{47}, \varphi_{31}$
	$28 = \overline{27}$	0	$1440_{12} = \chi_{48}, \varphi_{32}$
$3.G :$	29	1	4×2
	$30 = 29^*$		
	31	1	4×2
	$32 = 31^*$		
	33	1	4×2
	$34 = 33^*$		
	$35 = \overline{34}$	1	4×2
	$36 = 35^*$		
	37	0	$480_1 = \chi_{53}, \varphi_{37}$
	$38 = 37^*$		
	39	0	$480_3 = \chi_{54}, \varphi_{38}$
	$40 = 39^*$		

	blocks	defect	matrix
	41	0	$480_5 = \chi_{55}, \varphi_{39}$
	$42 = 41^*$		
	43	0	$1110_7 = \chi_{56}, \varphi_{40}$
	$44 = 43^*$		
	45	0	$1110_9 = \chi_{57}, \varphi_{41}$
	$46 = 45^*$		
	47	0	$1110_{11} = \chi_{58}, \varphi_{42}$
	$48 = 47^*$		
	$49 = \overline{48}$	0	$1110_{13} = \chi_{59}, \varphi_{43}$
	$50 = 49^*$		
	51	0	$1110_{15} = \chi_{60}, \varphi_{44}$
	$52 = 51^*$		
	$53 = \overline{52}$	0	$1110_{17} = \chi_{61}, \varphi_{45}$
	$54 = 53^*$		
	55	1	5×1
	$56 = 55^*$		
	$57 = \overline{56}$	1	5×1
	$58 = 57^*$		
	59	0	$1440_{13} = \chi_{84}, \varphi_{52}$
	$60 = 59^*$		
	$61 = \overline{60}$	0	$1440_{15} = \chi_{85}, \varphi_{53}$
	$62 = 61^*$		
	63	0	$1440_{17} = \chi_{86}, \varphi_{54}$
	$64 = 63^*$		
	$65 = \overline{64}$	0	$1440_{19} = \chi_{87}, \varphi_{55}$
	$66 = 65^*$		
	67	0	$1440_{21} = \chi_{88}, \varphi_{56}$
	$68 = 67^*$		
	$69 = \overline{68}$	0	$1440_{23} = \chi_{89}, \varphi_{57}$
	$70 = 69^*$		
	71	0	$1440_{25} = \chi_{90}, \varphi_{58}$
	$72 = 71^*$		
	$73 = \overline{72}$	0	$1440_{27} = \chi_{91}, \varphi_{59}$
	$74 = 73^*$		
	75	0	$1440_{29} = \chi_{92}, \varphi_{60}$
	$76 = 75^*$		
	$77 = \overline{76}$	0	$1440_{31} = \chi_{93}, \varphi_{61}$
	$78 = 77^*$		
	79	0	$1440_{33} = \chi_{94}, \varphi_{62}$
	$80 = 79^*$		

	blocks	defect	matrix
	$81 = \overline{80}$ $82 = 81*$	0	$1440_{35} = \chi_{95}, \varphi_{63}$

Block 1:	φ_1	φ_{18}	
$1_1 = \chi_1$	1	.	$\varphi_1 = 1_1$
$1331_1 = \chi_{18}$	.	1	$\varphi_{18} = 1331_1$
$1332_3 = \chi_{21}$	1	1	
$1332_4 = \chi_{22}$	1	1	

Block 3:	φ_3	φ_{15}	
$111_1 = \chi_3$	1	.	$\varphi_3 = 111_1$
$1221_1 = \chi_{15}$	.	1	$\varphi_{15} = 1221_1$
$1332_5 = \chi_{23}$	1	1	
$1332_6 = \chi_{24}$	1	1	

Block 4:	φ_4	φ_{17}	
$111_2 = \chi_4$	1	.	$\varphi_4 = 111_2$
$1221_3 = \chi_{17}$	.	1	$\varphi_{17} = 1221_3$
$1332_8 = \chi_{26}$	1	1	
$1332_{10} = \chi_{28}$	1	1	

Block 5:	φ_5	φ_{16}	
$111_3 = \chi_5$	1	.	$\varphi_5 = 111_3$
$1221_2 = \chi_{16}$	.	1	$\varphi_{16} = 1221_2$
$1332_7 = \chi_{25}$	1	1	
$1332_9 = \chi_{27}$	1	1	

Block 15:	φ_{19}
$1332_1 = \chi_{19}$	1
$1332_{11} = \chi_{29}$	1
$1332_{13} = \chi_{31}$	1
$1332_{15} = \chi_{33}$	1
$1332_{17} = \chi_{35}$	1

$$\varphi_{19} = 1332_1$$

Block 16:	φ_{20}
$1332_2 = \chi_{20}$	1
$1332_{12} = \chi_{30}$	1
$1332_{14} = \chi_{32}$	1
$1332_{16} = \chi_{34}$	1
$1332_{18} = \chi_{36}$	1

$$\varphi_{20} = 1332_2$$

Blocks 29, 30:	φ_{33}	φ_{46}
$111_4 = \chi_{49}$	1	.
$1221_4 = \chi_{62}$	.	1
$1332_{23} = \chi_{68}$	1	1
$1332_{25} = \chi_{69}$	1	1

$$\begin{aligned}\varphi_{33} &= 111_4 \\ \varphi_{46} &= 1221_4\end{aligned}$$

Blocks 31, 32:	φ_{34}	φ_{47}
$111_6 = \chi_{50}$	1	.
$1221_6 = \chi_{63}$	.	1
$1332_{27} = \chi_{70}$	1	1
$1332_{29} = \chi_{71}$	1	1

$$\begin{aligned}\varphi_{34} &= 111_6 \\ \varphi_{47} &= 1221_6\end{aligned}$$

Blocks 33, 34:	φ_{35}	φ_{49}
$111_8 = \chi_{51}$	1	.
$1221_{10} = \chi_{65}$	.	1
$1332_{33} = \chi_{73}$	1	1
$1332_{37} = \chi_{75}$	1	1

$$\begin{aligned}\varphi_{35} &= 111_8 \\ \varphi_{49} &= 1221_{10}\end{aligned}$$

Blocks 35, 36:	φ_{36}	φ_{48}	
$111_{10} = \chi_{52}$	1	.	$\varphi_{36} = 111_{10}$
$1221_8 = \chi_{64}$	.	1	$\varphi_{48} = 1221_8$
$1332_{31} = \chi_{72}$	1	1	
$1332_{35} = \chi_{74}$	1	1	

Blocks 55, 56:	φ_{50}	
$1332_{19} = \chi_{66}$	1	
$1332_{39} = \chi_{76}$	1	$\varphi_{50} = 1332_3$
$1332_{43} = \chi_{78}$	1	
$1332_{47} = \chi_{80}$	1	
$1332_{51} = \chi_{82}$	1	

Blocks 57, 58:	φ_{51}	
$1332_{21} = \chi_{67}$	1	
$1332_{41} = \chi_{77}$	1	$\varphi_{51} = 1332_5$
$1332_{45} = \chi_{79}$	1	
$1332_{49} = \chi_{81}$	1	
$1332_{53} = \chi_{83}$	1	