

$U_3(11) \pmod{2}$

	blocks	defect	matrix
$G :$	1	5	12×3
	2	4	8×3
	3	3	8×1
	4	3	8×1
	5	0	$1440_1 = \chi_{37}, \varphi_9$
	$6 = \bar{5}$	0	$1440_2 = \chi_{38}, \varphi_{10}$
	7	0	$1440_3 = \chi_{39}, \varphi_{11}$
	$8 = \bar{7}$	0	$1440_4 = \chi_{40}, \varphi_{12}$
	9	0	$1440_5 = \chi_{41}, \varphi_{13}$
	$10 = \bar{9}$	0	$1440_6 = \chi_{42}, \varphi_{14}$
	11	0	$1440_7 = \chi_{43}, \varphi_{15}$
	$12 = \bar{11}$	0	$1440_8 = \chi_{44}, \varphi_{16}$
	13	0	$1440_9 = \chi_{45}, \varphi_{17}$
	$14 = \bar{13}$	0	$1440_{10} = \chi_{46}, \varphi_{18}$
	15	0	$1440_{11} = \chi_{47}, \varphi_{19}$
	$16 = \bar{15}$	0	$1440_{12} = \chi_{48}, \varphi_{20}$
$3.G :$	17	5	16×2
	$18 = 17^*$		
	19	0	$480_1 = \chi_{53}, \varphi_{22}$
	$20 = 19^*$		
	21	0	$480_3 = \chi_{54}, \varphi_{23}$
	$22 = 21^*$		
	23	0	$480_5 = \chi_{55}, \varphi_{24}$
	$24 = 23^*$		
	25	3	8×1
	$26 = 25^*$		
	27	3	8×1
	$28 = 27^*$		
	29	0	$1440_{13} = \chi_{84}, \varphi_{28}$
	$30 = 29^*$		
	$31 = \bar{30}$	0	$1440_{15} = \chi_{85}, \varphi_{29}$
	$32 = 31^*$		
	33	0	$1440_{17} = \chi_{86}, \varphi_{30}$
	$34 = 33^*$		
	$35 = \bar{34}$	0	$1440_{19} = \chi_{87}, \varphi_{31}$
	$36 = 35^*$		
	37	0	$1440_{21} = \chi_{88}, \varphi_{32}$
	$38 = 37^*$		
	$39 = \bar{38}$	0	$1440_{23} = \chi_{89}, \varphi_{33}$
	$40 = 39^*$		

	blocks	defect	matrix
	41	0	$1440_{25} = \chi_{90}, \varphi_{34}$
	$42 = 41^*$		
	$43 = \overline{42}$	0	$1440_{27} = \chi_{91}, \varphi_{35}$
	$44 = 43^*$		
	45	0	$1440_{29} = \chi_{92}, \varphi_{36}$
	$46 = 45^*$		
	$47 = \overline{46}$	0	$1440_{31} = \chi_{93}, \varphi_{37}$
	$48 = 47^*$		
	49	0	$1440_{33} = \chi_{94}, \varphi_{38}$
	$50 = 49^*$		
	$51 = \overline{50}$	0	$1440_{35} = \chi_{95}, \varphi_{39}$
	$52 = 51^*$		

Block 1:	φ_1	φ_2	φ_6	
$1_1 = \chi_1$	1	.	.	
$110_1 = \chi_2$	.	1	.	
$111_1 = \chi_3$	1	1	.	
$111_2 = \chi_4$	1	1	.	
$111_3 = \chi_5$	1	1	.	$\varphi_1 = 1_1$
$1110_2 = \chi_{10}$	.	.	1	$\varphi_2 = 110_1$
$1221_1 = \chi_{15}$	1	1	1	$\varphi_6 = 1110_1$
$1221_2 = \chi_{16}$	1	1	1	
$1221_3 = \chi_{17}$	1	1	1	
$1331_1 = \chi_{18}$	1	2	1	
$1332_1 = \chi_{19}$	2	2	1	
$1332_2 = \chi_{20}$	2	2	1	

Block 2:	φ_3	φ_4	φ_5	
$370_1 = \chi_6$	1	.	.	
$370_2 = \chi_7$	.	1	.	
$370_3 = \chi_8$	.	.	1	$\varphi_3 = 370_1$
$1110_1 = \chi_9$	1	1	1	$\varphi_4 = 370_2$
$1110_3 = \chi_{11}$	1	1	1	$\varphi_5 = 370_3$
$1110_4 = \chi_{12}$	1	1	1	
$1110_5 = \chi_{13}$	1	1	1	
$1110_6 = \chi_{14}$	1	1	1	

Block 3:	φ_7
$1332_3 = \chi_{21}$	1
$1332_5 = \chi_{23}$	1
$1332_7 = \chi_{25}$	1
$1332_8 = \chi_{26}$	1
$1332_{11} = \chi_{29}$	1
$1332_{12} = \chi_{30}$	1
$1332_{15} = \chi_{33}$	1
$1332_{16} = \chi_{34}$	1

$$\varphi_7 = 1332_1$$

Block 4:	φ_8
$1332_4 = \chi_{22}$	1
$1332_6 = \chi_{24}$	1
$1332_9 = \chi_{27}$	1
$1332_{10} = \chi_{28}$	1
$1332_{13} = \chi_{31}$	1
$1332_{14} = \chi_{32}$	1
$1332_{17} = \chi_{35}$	1
$1332_{18} = \chi_{36}$	1

$$\varphi_8 = 1332_2$$

Blocks 17, 18:	φ_{21}	φ_{25}
$111_4 = \chi_{49}$	1	.
$111_6 = \chi_{50}$	1	.
$111_8 = \chi_{51}$	1	.
$111_{10} = \chi_{52}$	1	.
$1110_7 = \chi_{56}$	.	1
$1110_9 = \chi_{57}$	.	1
$1110_{11} = \chi_{58}$	.	1
$1110_{13} = \chi_{59}$	.	1
$1110_{15} = \chi_{60}$	.	1
$1110_{17} = \chi_{61}$	.	1
$1221_4 = \chi_{62}$	1	1
$1221_6 = \chi_{63}$	1	1
$1221_8 = \chi_{64}$	1	1
$1221_{10} = \chi_{65}$	1	1
$1332_{19} = \chi_{66}$	2	1
$1332_{21} = \chi_{67}$	2	1

$$\begin{aligned} \varphi_{21} &= 111_1 \\ \varphi_{25} &= 1110_2 \end{aligned}$$

Blocks 25, 26:	φ_{26}
$1332_{23} = \chi_{68}$	1
$1332_{27} = \chi_{70}$	1
$1332_{31} = \chi_{72}$	1
$1332_{33} = \chi_{73}$	1
$1332_{39} = \chi_{76}$	1
$1332_{41} = \chi_{77}$	1
$1332_{47} = \chi_{80}$	1
$1332_{49} = \chi_{81}$	1

$$\varphi_{26} = 1332_3$$

Blocks 27, 28:	φ_{27}
$1332_{25} = \chi_{69}$	1
$1332_{29} = \chi_{71}$	1
$1332_{35} = \chi_{74}$	1
$1332_{37} = \chi_{75}$	1
$1332_{43} = \chi_{78}$	1
$1332_{45} = \chi_{79}$	1
$1332_{51} = \chi_{82}$	1
$1332_{53} = \chi_{83}$	1

$$\varphi_{27} = 1332_5$$