

$U_4(3).2_3 \pmod{2}$

	blocks	defect	matrix
$4.G :$	1 2 3	10 2 3	52×6 4×1 5×1
$12_1.G :$	4 $5 = 4 * 5$	10	44×4
$12_2.G :$	6 $7 = 6 * 5$	10	44×4

Block 1:	$\varphi_{1,0}$	$\varphi_{2,0}$	φ_{3+}	φ_{5+}	φ_{6+}	$\varphi_{9,0}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.
$1_2 = \chi_{1,1}$	1	.	.	.	.	.
$21_1 = \chi_{2,0}$	1	1	.	.	.	.
$21_2 = \chi_{2,1}$	1	1	.	.	.	.
$70_1 = \chi_{3+}$	2	.	1	.	.	.
$90_1 = \chi_{5,0}$	2	1	1	.	.	.
$90_2 = \chi_{5,1}$	2	1	1	.	.	.
$140_1 = \chi_{6,0}$	.	1	.	.	.	1
$140_2 = \chi_{6,1}$	.	1	.	.	.	1
$189_1 = \chi_{7,0}$	1	.	1	.	.	1
$189_2 = \chi_{7,1}$	1	.	1	.	.	1
$210_1 = \chi_{8,0}$	2	1	1	.	.	1
$210_2 = \chi_{8,1}$	2	1	1	.	.	1
$560_1 = \chi_{9+}$	4	2	2	1	.	2
$560_2 = \chi_{10+}$	4	2	2	.	1	2
$630_1 = \chi_{13+}$	2	2	1	1	1	2
$420_1 = \chi_{15,0}$	.	1	.	1	1	1
$420_2 = \chi_{15,1}$	.	1	.	1	1	1
$560_3 = \chi_{16,0}$	.	2	.	1	1	2
$560_4 = \chi_{16,1}$	.	2	.	1	1	2
$729_1 = \chi_{19,0}$	1	1	1	1	1	3
$729_2 = \chi_{19,1}$	1	1	1	1	1	3
$20_1 = \chi_{21,0}$	.	1	.	.	.	.
$20_2 = \chi_{21,1}$	.	1	.	.	.	.
$112_1 = \chi_{22+}$	4	2	1	.	.	.
$70_2 = \chi_{24,0}$	2	.	1	.	.	.
$70_3 = \chi_{24,1}$	2	.	1	.	.	.
$140_3 = \chi_{25+}$	.	.	.	1	.	.
$140_4 = \chi_{26+}$	.	.	.	.	1	.
$120_1 = \chi_{29,0}$	.	.	.	.	.	1
$120_2 = \chi_{29,1}$	.	.	.	.	.	1
$420_3 = \chi_{30+}$	4	2	2	.	.	2
$1008_1 = \chi_{32+}$	4	2	3	1	1	4
$540_1 = \chi_{34,0}$	.	1	.	1	1	2
$540_2 = \chi_{34,1}$	.	1	.	1	1	2
$560_5 = \chi_{35,0}$	.	2	.	1	1	2
$560_6 = \chi_{35,1}$	.	2	.	1	1	2
$630_2 = \chi_{36,0}$	2	2	1	1	1	2
$630_3 = \chi_{36,1}$	2	2	1	1	1	2
$40_1 = \chi_{40+}$	.	2	.	.	.	.

(Block 1:)	$\varphi_{1,0}$	$\varphi_{2,0}$	φ_{3+}	φ_{5+}	φ_{6+}	$\varphi_{9,0}$	
$240_1 = \chi_{41+}$	2	
$280_1 = \chi_{42+}$.	2	.	.	.	2	
$448_1 = \chi_{43+}$.	.	1	.	1	2	$\varphi_{1,0} = 1_1$
$448_2 = \chi_{45+}$.	.	1	.	1	2	$\varphi_{2,0} = 20_1$
$448_3 = \chi_{44+}$.	.	1	1	.	2	$\varphi_{3+} = 68_1$
$448_4 = \chi_{46+}$.	.	1	1	.	2	$\varphi_{5+} = 140_1$
$560_7 = \chi_{47+}$	8	2	4	.	.	2	$\varphi_{6+} = 140_2$
$560_8 = \chi_{48+}$.	2	.	1	1	2	$\varphi_{9,0} = 120_1$
$560_9 = \chi_{49+}$.	2	.	1	1	2	
$840_1 = \chi_{50+}$.	2	.	2	2	2	
$1080_1 = \chi_{51+}$.	2	.	2	2	4	
$1680_1 = \chi_{54+}$	8	6	4	2	2	6	

Block 2:	φ_{10+}	
$1280_1 = \chi_{17+}$	1	
$1280_2 = \chi_{37+}$	1	$\varphi_{10+} = 1280_1$
$1280_3 = \chi_{52+}$	1	
$1280_4 = \chi_{53+}$	1	

Block 3:	$\varphi_{12,0}$	
$896_1 = \chi_{20,0}$	1	
$896_2 = \chi_{20,1}$	1	
$896_3 = \chi_{39,0}$	1	$\varphi_{12,0} = 896_1$
$896_4 = \chi_{39,1}$	1	
$1792_1 = \chi_{55+}$	2	

Block 4:	$\varphi_{21,0}$	φ_{22+}	$\varphi_{24,0}$	$\varphi_{25,0}$
$36_1 = \chi_{99,0}$	1	.	.	.
$36_2 = \chi_{99,1}$	1	.	.	.
$90_3 = \chi_{100+}$	.	1	.	.
$126_1 = \chi_{102,0}$	1	1	.	.
$126_2 = \chi_{102,1}$	1	1	.	.
$189_3 = \chi_{103,0}$	.	.	1	.
$189_4 = \chi_{103,1}$	.	.	1	.
$315_1 = \chi_{104,0}$	1	1	1	.
$315_2 = \chi_{104,1}$	1	1	1	.
$630_4 = \chi_{105+}$	2	2	2	.
$630_6 = \chi_{107,0}$	1	2	.	1
$630_7 = \chi_{107,1}$	1	2	.	1
$720_1 = \chi_{108,0}$	2	3	2	.
$720_2 = \chi_{108,1}$	2	3	2	.
$729_3 = \chi_{109,0}$	1	1	1	1
$729_4 = \chi_{109,1}$	1	1	1	1
$756_1 = \chi_{110,0}$	3	3	2	.
$756_2 = \chi_{110,1}$	3	3	2	.
$945_1 = \chi_{111,0}$	2	3	1	1
$945_2 = \chi_{111,1}$	2	3	1	1
$90_5 = \chi_{112,0}$	.	1	.	.
$90_6 = \chi_{112,1}$	.	1	.	.
$252_1 = \chi_{113+}$	2	2	.	.
$252_3 = \chi_{115+}$	2	2	.	.
$540_3 = \chi_{117+}$	2	1	2	.
$504_1 = \chi_{119,0}$	.	1	.	1
$504_2 = \chi_{119,1}$	.	1	.	1
$540_5 = \chi_{120,0}$	1	1	.	1
$540_6 = \chi_{120,1}$	1	1	.	1
$630_{10} = \chi_{121,0}$	2	2	2	.
$630_{11} = \chi_{121,1}$	2	2	2	.
$720_5 = \chi_{122,0}$	2	3	2	.
$720_6 = \chi_{122,1}$	2	3	2	.
$1260_1 = \chi_{123,0}$	3	4	2	1
$1260_2 = \chi_{123,1}$	3	4	2	1
$72_1 = \chi_{124+}$	2	.	.	.
$432_1 = \chi_{125+}$	2	4	.	.
$720_9 = \chi_{126+}$	2	3	2	.
$720_{11} = \chi_{127+}$	2	3	2	.
$1008_2 = \chi_{128+}$	.	2	.	2

(Block 4:)	$\varphi_{21,0}$	φ_{22+}	$\varphi_{24,0}$	$\varphi_{25,0}$
$1008_4 = \chi_{129+}$	2	2	4	.
$1080_2 = \chi_{130+}$	2	2	.	2
$1512_1 = \chi_{131+}$	6	6	4	.
$2520_1 = \chi_{132+}$	6	8	4	2

$$\begin{aligned} \varphi_{21,0} &= 36_1 \\ \varphi_{22+} &= 90_1 \\ \varphi_{24,0} &= 189_1 \\ \varphi_{25,0} &= 414_1 \end{aligned}$$

Block 6:	$\varphi_{21,0}$	φ_{22+}	$\varphi_{24,0}$	$\varphi_{25,0}$
$36_1 = \chi_{99,0}$	1	.	.	.
$36_2 = \chi_{99,1}$	1	.	.	.
$90_3 = \chi_{100+}$	.	1	.	.
$126_1 = \chi_{102,0}$	1	1	.	.
$126_2 = \chi_{102,1}$	1	1	.	.
$189_3 = \chi_{103,0}$	.	.	1	.
$189_4 = \chi_{103,1}$	.	.	1	.
$315_1 = \chi_{104,0}$	1	1	1	.
$315_2 = \chi_{104,1}$	1	1	1	.
$630_4 = \chi_{105+}$	2	2	2	.
$630_6 = \chi_{107,0}$	1	2	.	1
$630_7 = \chi_{107,1}$	1	2	.	1
$720_1 = \chi_{108,0}$	2	3	2	.
$720_2 = \chi_{108,1}$	2	3	2	.
$729_3 = \chi_{109,0}$	1	1	1	1
$729_4 = \chi_{109,1}$	1	1	1	1
$756_1 = \chi_{110,0}$	3	3	2	.
$756_2 = \chi_{110,1}$	3	3	2	.
$945_1 = \chi_{111,0}$	2	3	1	1
$945_2 = \chi_{111,1}$	2	3	1	1
$90_5 = \chi_{112,0}$	.	1	.	.
$90_6 = \chi_{112,1}$	.	1	.	.
$252_1 = \chi_{113+}$	2	2	.	.
$252_3 = \chi_{115+}$	2	2	.	.
$540_3 = \chi_{117+}$	2	1	2	.
$504_1 = \chi_{119,0}$	.	1	.	1
$504_2 = \chi_{119,1}$	.	1	.	1
$540_5 = \chi_{120,0}$	1	1	.	1
$540_6 = \chi_{120,1}$	1	1	.	1
$630_{10} = \chi_{121,0}$	2	2	2	.
$630_{11} = \chi_{121,1}$	2	2	2	.
$720_5 = \chi_{122,0}$	2	3	2	.
$720_6 = \chi_{122,1}$	2	3	2	.
$1260_1 = \chi_{123,0}$	3	4	2	1
$1260_2 = \chi_{123,1}$	3	4	2	1
$72_1 = \chi_{124+}$	2	.	.	.
$432_1 = \chi_{125+}$	2	4	.	.
$720_9 = \chi_{126+}$	2	3	2	.
$720_{11} = \chi_{127+}$	2	3	2	.
$1008_2 = \chi_{128+}$	.	2	.	2

(Block 6:)	$\varphi_{21,0}$	φ_{22+}	$\varphi_{24,0}$	$\varphi_{25,0}$
$1008_4 = \chi_{129+}$	2	2	4	.
$1080_2 = \chi_{130+}$	2	2	.	2
$1512_1 = \chi_{131+}$	6	6	4	.
$2520_1 = \chi_{132+}$	6	8	4	2

$$\begin{aligned} \varphi_{21,0} &= 36_1 \\ \varphi_{22+} &= 90_1 \\ \varphi_{24,0} &= 189_1 \\ \varphi_{25,0} &= 414_1 \end{aligned}$$