

$$U_4(3).2_2 \pmod{3}$$

	blocks	defect	matrix
3. <i>G</i> :	1	7	86×11
	2	1	3×1
	3	1	3×1
6. <i>G</i> :	4	7	77×8
12. <i>G</i> :	5	7	40×6

Block 1:	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{2,0}$	$\varphi_{2,1}$	$\varphi_{3,0}$	$\varphi_{3,1}$	φ_{4+}	$\varphi_{6,0}$	$\varphi_{6,1}$	$\varphi_{7,0}$	$\varphi_{7,1}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	.	1	.	.	.	.	.	.	.	.	.
$21_1 = \chi_{2,0}$	1	1	.	.	1	.	.	.	.	.	.
$21_2 = \chi_{2,1}$	1	1	.	.	.	1	.	.	.	.	.
$35_1 = \chi_{3,0}$	1	.	1	.	1	.	.	.	.	.	.
$35_2 = \chi_{3,1}$	.	1	.	1	.	1	.	.	.	.	.
$35_3 = \chi_{4,0}$	.	1	1	.	.	1	.	.	.	.	.
$35_4 = \chi_{4,1}$	1	.	.	1	1	.	.	.	.	.	.
$90_1 = \chi_{5,0}$	2	.	.	.	1	.	.	.	1	.	.
$90_2 = \chi_{5,1}$	.	2	.	.	.	1	.	1	.	.	.
$140_1 = \chi_{6,0}$	2	1	1	1	1	1	.	.	1	.	.
$140_2 = \chi_{6,1}$	1	2	1	1	1	1	.	1	.	.	.
$189_1 = \chi_{7,0}$	.	.	.	2	.	.	1	.	1	.	.
$189_2 = \chi_{7,1}$	.	.	2	.	.	.	1	1	.	.	.
$210_1 = \chi_{8,0}$	.	1	1	.	1	1	.	.	.	1	.
$210_2 = \chi_{8,1}$	1	.	.	1	1	1	.	.	.	.	1
$280_1 = \chi_{9,0}$	.	.	1	.	1	.	1	.	.	1	.
$280_2 = \chi_{9,1}$	.	.	.	1	.	1	1	.	.	.	1
$280_3 = \chi_{10,0}$	.	.	1	.	1	.	1	.	.	1	.
$280_4 = \chi_{10,1}$	.	.	.	1	.	1	1	.	.	.	1
$560_1 = \chi_{11+}$	.	.	1	1	1	1	2	.	.	1	1
$315_1 = \chi_{13,0}$	3	.	1	1	3	.	.	.	1	1	.
$315_2 = \chi_{13,1}$	.	3	1	1	.	3	.	1	.	.	1
$315_3 = \chi_{14,0}$	1	2	1	1	2	1	.	1	.	1	.
$315_4 = \chi_{14,1}$	2	1	1	1	1	2	.	.	1	.	1
$420_1 = \chi_{15,0}$	2	1	2	1	2	1	1	.	1	1	.
$420_2 = \chi_{15,1}$	1	2	1	2	1	2	1	1	.	.	1
$560_2 = \chi_{16,0}$	.	.	1	1	1	1	2	.	.	1	1
$560_3 = \chi_{16,1}$	.	.	1	1	1	1	2	.	.	1	1
$1280_1 = \chi_{17+}$	3	3	3	3	4	4	3	1	1	2	2
$896_1 = \chi_{20,0}$	3	2	2	2	4	2	2	.	1	2	1
$896_2 = \chi_{20,1}$	2	3	2	2	2	4	2	1	.	1	2
$15_1 = \chi_{56,0}$	.	.	1	.	.	.	.	.	.	.	.
$15_2 = \chi_{56,1}$	.	.	.	1	.	.	.	.	.	.	.
$15_3 = \chi_{56,0}^{*2}$	.	.	1	.	.	.	.	.	.	.	.
$15_4 = \chi_{56,1}^{*2}$	.	.	.	1	.	.	.	.	.	.	.
$21_3 = \chi_{57,0}$	2	.	.	.	1	.	.	.	.	.	.
$21_4 = \chi_{57,1}$	.	2	.	.	.	1	.	.	.	.	.
$21_5 = \chi_{57,0}^{*2}$	2	.	.	.	1	.	.	.	.	.	.
$21_6 = \chi_{57,1}^{*2}$	.	2	.	.	.	1	.	.	.	.	.

(Block 1:)	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{2,0}$	$\varphi_{2,1}$	$\varphi_{3,0}$	$\varphi_{3,1}$	φ_{4+}	$\varphi_{6,0}$	$\varphi_{6,1}$	$\varphi_{7,0}$	$\varphi_{7,1}$
$105_1 = \chi_{58,0}$	2	.	.	1	1	.	.	.	1	.	.
$105_2 = \chi_{58,1}$	.	2	1	.	.	1	.	1	.	.	.
$105_3 = \chi_{58,0}^{*2}$	2	.	.	1	1	.	.	.	1	.	.
$105_4 = \chi_{58,1}^{*2}$	.	2	1	.	.	1	.	1	.	.	.
$105_5 = \chi_{59,0}$	.	.	1	.	.	.	1	.	.	.	.
$105_6 = \chi_{59,1}$	.	.	.	1	.	.	1	.	.	.	.
$105_7 = \chi_{59,0}^{*2}$	.	.	1	.	.	.	1	.	.	.	.
$105_8 = \chi_{59,1}^{*2}$	.	.	.	1	.	.	1	.	.	.	.
$105_9 = \chi_{60,0}$	2	.	1	.	1	.	.	.	1	.	.
$105_{10} = \chi_{60,1}$	.	2	.	1	.	1	.	1	.	.	.
$105_{11} = \chi_{60,0}^{*2}$	2	.	1	.	1	.	.	.	1	.	.
$105_{12} = \chi_{60,1}^{*2}$	.	2	.	1	.	1	.	1	.	.	.
$210_3 = \chi_{61,0}$	1	.	1	.	2	.	.	.	.	1	.
$210_4 = \chi_{61,1}$	.	1	.	1	.	2	.	.	.	.	1
$210_5 = \chi_{61,0}^{*2}$	1	.	1	.	2	.	.	.	.	1	.
$210_6 = \chi_{61,1}^{*2}$	.	1	.	1	.	2	.	.	.	.	1
$315_5 = \chi_{62,0}$	1	.	1	1	2	.	1	.	.	1	.
$315_6 = \chi_{62,1}$	.	1	1	1	.	2	1	.	.	.	1
$315_7 = \chi_{62,0}^{*2}$	1	.	1	1	2	.	1	.	.	1	.
$315_8 = \chi_{62,1}^{*2}$	.	1	1	1	.	2	1	.	.	.	1
$336_1 = \chi_{63,0}$	3	2	1	1	3	1	.	.	1	1	.
$336_2 = \chi_{63,1}$	2	3	1	1	1	3	.	1	.	.	1
$336_3 = \chi_{63,0}^{*2}$	3	2	1	1	3	1	.	.	1	1	.
$336_4 = \chi_{63,1}^{*2}$	2	3	1	1	1	3	.	1	.	.	1
$720_1 = \chi_{64+}$	3	3	2	2	3	3	1	1	1	1	1
$720_2 = \chi_{64*8+}$	3	3	2	2	3	3	1	1	1	1	1
$384_1 = \chi_{66,0}$	1	.	1	1	2	.	1	.	1	1	.
$384_2 = \chi_{66,1}$	.	1	1	1	.	2	1	1	.	.	1
$384_3 = \chi_{66,0}^{*2}$	1	.	1	1	2	.	1	.	1	1	.
$384_4 = \chi_{66,1}^{*2}$	.	1	1	1	.	2	1	1	.	.	1
$420_4 = \chi_{67,0}$	1	2	2	1	2	1	1	1	.	1	.
$420_5 = \chi_{67,1}$	2	1	1	2	1	2	1	.	1	.	1
$420_6 = \chi_{67,0}^{*2}$	1	2	2	1	2	1	1	1	.	1	.
$420_7 = \chi_{67,1}^{*2}$	2	1	1	2	1	2	1	.	1	.	1
$630_3 = \chi_{68,0}$	3	1	2	2	3	2	1	.	1	1	1
$630_4 = \chi_{68,1}$	1	3	2	2	2	3	1	1	.	1	1
$630_5 = \chi_{68,0}^{*2}$	3	1	2	2	3	2	1	.	1	1	1
$630_6 = \chi_{68,1}^{*2}$	1	3	2	2	2	3	1	1	.	1	1
$756_1 = \chi_{70,0}$	1	1	2	.	2	2	2	.	.	2	1
$756_2 = \chi_{70,1}$	1	1	.	2	2	2	2	.	.	1	2

(Block 1:)	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{2,0}$	$\varphi_{2,1}$	$\varphi_{3,0}$	$\varphi_{3,1}$	φ_{4+}	$\varphi_{6,0}$	$\varphi_{6,1}$	$\varphi_{7,0}$	$\varphi_{7,1}$
$756_3 = \chi_{70,0}^{*2}$	1	1	2	.	2	2	2	.	.	2	1
$756_4 = \chi_{70,1}^{*2}$	1	1	.	2	2	2	2	.	.	1	2
$945_1 = \chi_{71,0}$	1	1	2	2	2	2	3	.	1	2	1
$945_2 = \chi_{71,1}$	1	1	2	2	2	2	3	1	.	1	2
$945_3 = \chi_{71,0}^{*2}$	1	1	2	2	2	2	3	.	1	2	1
$945_4 = \chi_{71,1}^{*2}$	1	1	2	2	2	2	3	1	.	1	2

$$\begin{array}{ll}
\varphi_{1,0} &= 1_1 \\
\varphi_{1,1} &= 1_2 \\
\varphi_{2,0} &= 15_1 \\
\varphi_{2,1} &= 15_2 \\
\varphi_{3,0} &= 19_1 \\
\varphi_{3,1} &= 19_2
\end{array}
\qquad
\begin{array}{ll}
\varphi_{4+} &= 90_1 \\
\varphi_{6,0} &= 69_1 \\
\varphi_{6,1} &= 69_2 \\
\varphi_{7,0} &= 156_1 \\
\varphi_{7,1} &= 156_2
\end{array}$$

Block 2:	$\varphi_{8,0}$
$729_1 = \chi_{19,0}$	1
$729_3 = \chi_{69,0}$	1
$729_5 = \chi_{69,0}^{*2}$	1

$$\varphi_{8,0} = 729_1$$

Block 3:	$\varphi_{8,1}$
$729_2 = \chi_{19,1}$	1
$729_4 = \chi_{69,1}$	1
$729_6 = \chi_{69,1}^{*2}$	1

$$\varphi_{8,1} = 729_2$$

Block 4:	$\varphi_{9,0}$	$\varphi_{9,1}$	φ_{10+}	$\varphi_{12,0}$	$\varphi_{12,1}$	φ_{13+}	$\varphi_{15,0}$	$\varphi_{15,1}$
$20_1 = \chi_{21,0}$	.	.	1	.	.	.	.	.
$20_2 = \chi_{21,1}$	.	.	1	.	.	.	.	.
$56_1 = \chi_{22,0}$	2	.	.	.	1	.	.	.
$56_2 = \chi_{22,1}$	.	2	.	1	.	.	.	.
$56_3 = \chi_{23,0}$	1	1	.	.	1	.	.	.
$56_4 = \chi_{23,1}$	1	1	.	1	.	.	.	.
$70_1 = \chi_{24,0}$	1	.	1	.	1	.	.	.
$70_2 = \chi_{24,1}$	.	1	1	1	.	.	.	.
$70_3 = \chi_{25,0}$	1	.	1	.	1	.	.	.
$70_4 = \chi_{25,1}$	.	1	1	1	.	.	.	.
$70_5 = \chi_{26,0}$	1	.	1	.	1	.	.	.
$70_6 = \chi_{26,1}$	.	1	1	1	.	.	.	.
$140_3 = \chi_{27+}$	1	1	2	1	1	.	.	.
$120_1 = \chi_{29,0}$	1	1	1	1	1	.	.	.
$120_2 = \chi_{29,1}$	1	1	1	1	1	.	.	.
$420_3 = \chi_{30+}$	.	.	4	1	1	1	.	.
$504_1 = \chi_{32,0}$	2	1	3	.	3	.	.	1
$504_2 = \chi_{32,1}$	1	2	3	3	.	.	1	.
$504_3 = \chi_{33,0}$	1	2	3	2	1	.	.	1
$504_4 = \chi_{33,1}$	2	1	3	1	2	.	1	.
$540_1 = \chi_{34,0}$	1	1	5	2	2	1	.	.
$540_2 = \chi_{34,1}$	1	1	5	2	2	1	.	.
$560_4 = \chi_{35,0}$	3	2	3	1	3	.	.	1
$560_5 = \chi_{35,1}$	2	3	3	3	1	.	1	.
$630_1 = \chi_{36,0}$	.	.	2	.	1	1	.	1
$630_2 = \chi_{36,1}$	.	.	2	1	.	1	1	.
$1280_2 = \chi_{37+}$	3	3	7	3	3	1	1	1
$896_3 = \chi_{39,0}$	3	2	5	2	3	1	.	1
$896_4 = \chi_{39,1}$	2	3	5	3	2	1	1	.
$6_1 = \chi_{72,0}$	1	.	.	.	.	.	.	.
$6_2 = \chi_{72,1}$	.	1	.	.	.	.	.	.
$6_3 = \chi_{72,0}^{*2}$	1	.	.	.	.	.	.	.
$6_4 = \chi_{72,1}^{*2}$	.	1	.	.	.	.	.	.
$84_1 = \chi_{73,0}$	.	.	2	.	1	.	.	.
$84_2 = \chi_{73,1}$	.	.	2	1	.	.	.	.
$84_3 = \chi_{73,0}^{*2}$	.	.	2	.	1	.	.	.
$84_4 = \chi_{73,1}^{*2}$	.	.	2	1	.	.	.	.
$120_3 = \chi_{74,0}$	2	.	1	.	2	.	.	.
$120_4 = \chi_{74,1}$	.	2	1	2	.	.	.	.
$120_5 = \chi_{74,0}^{*2}$	2	.	1	.	2	.	.	.

(Block 4:)	$\varphi_{9,0}$	$\varphi_{9,1}$	φ_{10+}	$\varphi_{12,0}$	$\varphi_{12,1}$	φ_{13+}	$\varphi_{15,0}$	$\varphi_{15,1}$
$120_6 = \chi_{74,1}^{*2}$	.	2	1	2	.	.	.	.
$126_1 = \chi_{75,0}$	2	1	1	.	2	.	.	.
$126_2 = \chi_{75,1}$	1	2	1	2	.	.	.	.
$126_3 = \chi_{75,0}^{*2}$	2	1	1	.	2	.	.	.
$126_4 = \chi_{75,1}^{*2}$	1	2	1	2	.	.	.	.
$210_7 = \chi_{76,0}$	2	1	3	1	2	.	.	.
$210_8 = \chi_{76,1}$	1	2	3	2	1	.	.	.
$210_9 = \chi_{76,0}^{*2}$	2	1	3	1	2	.	.	.
$210_{10} = \chi_{76,1}^{*2}$	1	2	3	2	1	.	.	.
$540_3 = \chi_{77+}$	1	1	5	2	2	1	.	.
$540_4 = \chi_{77*8+}$	1	1	5	2	2	1	.	.
$336_5 = \chi_{79,0}$	.	.	2	.	1	1	.	.
$336_6 = \chi_{79,1}$	.	.	2	1	.	1	.	.
$336_7 = \chi_{79,0}^{*2}$	.	.	2	.	1	1	.	.
$336_8 = \chi_{79,1}^{*2}$	.	.	2	1	.	1	.	.
$384_5 = \chi_{80,0}$	1	.	2	.	1	.	.	1
$384_6 = \chi_{80,1}$	.	1	2	1	.	.	1	.
$384_7 = \chi_{80,0}^{*2}$	1	.	2	.	1	.	.	1
$384_8 = \chi_{80,1}^{*2}$	.	1	2	1	.	.	1	.
$420_8 = \chi_{81,0}$	2	1	1	.	2	.	.	1
$420_9 = \chi_{81,1}$	1	2	1	2	.	.	1	.
$420_{10} = \chi_{81,0}^{*2}$	2	1	1	.	2	.	.	1
$420_{11} = \chi_{81,1}^{*2}$	1	2	1	2	.	.	1	.
$630_7 = \chi_{82,0}$	3	3	4	2	3	.	.	1
$630_8 = \chi_{82,1}$	3	3	4	3	2	.	1	.
$630_9 = \chi_{82,0}^{*2}$	3	3	4	2	3	.	.	1
$630_{10} = \chi_{82,1}^{*2}$	3	3	4	3	2	.	1	.
$1260_1 = \chi_{83+}$	3	3	6	3	3	1	1	1
$1260_2 = \chi_{83*5+}$	3	3	6	3	3	1	1	1
$840_2 = \chi_{85,0}$	2	1	5	1	3	1	.	1
$840_3 = \chi_{85,1}$	1	2	5	3	1	1	1	.
$840_4 = \chi_{85,0}^{*2}$	2	1	5	1	3	1	.	1
$840_5 = \chi_{85,1}^{*2}$	1	2	5	3	1	1	1	.
$840_6 = \chi_{86,0}$	1	2	5	2	2	1	.	1
$840_7 = \chi_{86,1}$	2	1	5	2	2	1	1	.
$840_8 = \chi_{86,0}^{*2}$	1	2	5	2	2	1	.	1
$840_9 = \chi_{86,1}^{*2}$	2	1	5	2	2	1	1	.

$$\begin{array}{ll}
\varphi_{9,0} &= 6_1 \\
\varphi_{9,1} &= 6_2 \\
\varphi_{10+} &= 20_1 \\
\varphi_{12,0} &= 44_1 \\
\varphi_{12,1} &= 44_2 \\
\varphi_{13+} &= 252_1 \\
\varphi_{15,0} &= 294_1 \\
\varphi_{15,1} &= 294_2
\end{array}$$

Block 5:	φ_{16+}	φ_{17+}	φ_{18+}	φ_{19+}	φ_{20+}	φ_{21+}	
$40_1 = \chi_{40+}$	1	1	.	.	.	.	
$240_1 = \chi_{41+}$	2	1	1	1	.	.	
$280_5 = \chi_{42+}$	2	1	.	.	1	.	
$448_1 = \chi_{43+}$	4	2	.	1	1	.	
$448_2 = \chi_{44+}$	4	2	.	1	1	.	
$448_3 = \chi_{45+}$	4	2	.	1	1	.	
$448_4 = \chi_{46+}$	4	2	.	1	1	.	
$560_6 = \chi_{47+}$	5	3	1	1	1	.	
$560_7 = \chi_{48+}$	5	3	1	1	1	.	
$560_8 = \chi_{49+}$	5	3	1	1	1	.	
$840_1 = \chi_{50+}$	7	4	1	1	2	.	
$1080_1 = \chi_{51+}$	2	1	1	2	.	1	
$1280_3 = \chi_{52+}$	10	6	1	2	3	.	
$1280_4 = \chi_{53+}$	5	3	1	1	1	1	
$1680_1 = \chi_{54+}$	7	4	1	2	2	1	
$1792_1 = \chi_{55+}$	8	5	2	2	2	1	
$168_1 = \chi_{87+}$	2	1	.	1	.	.	$\varphi_{16+} = 8_1$
$168_2 = \chi_{87*5+}$	2	1	.	1	.	.	$\varphi_{17+} = 32_1$
$240_2 = \chi_{88+}$	2	1	1	1	.	.	$\varphi_{18+} = 72_1$
$240_3 = \chi_{88*5+}$	2	1	1	1	.	.	$\varphi_{19+} = 120_1$
$432_1 = \chi_{89+}$	4	3	1	.	1	.	$\varphi_{20+} = 232_1$
$432_2 = \chi_{89*5+}$	4	3	1	.	1	.	$\varphi_{21+} = 720_1$
$768_1 = \chi_{90+}$	7	4	.	1	2	.	
$768_2 = \chi_{90*5+}$	7	4	.	1	2	.	
$840_{10} = \chi_{91+}$	7	4	1	1	2	.	
$840_{11} = \chi_{91*5+}$	7	4	1	1	2	.	
$840_{12} = \chi_{92+}$	7	4	1	1	2	.	
$840_{13} = \chi_{92*5+}$	7	4	1	1	2	.	
$960_1 = \chi_{93+}$	2	1	1	1	.	1	
$960_2 = \chi_{93*29+}$	2	1	1	1	.	1	
$960_3 = \chi_{94+}$	7	4	1	2	2	.	
$960_4 = \chi_{93*71+}$	7	4	1	2	2	.	
$1008_1 = \chi_{95+}$	9	5	1	2	2	.	
$1008_2 = \chi_{95*5+}$	9	5	1	2	2	.	
$1512_1 = \chi_{96+}$	6	4	2	2	1	1	
$1512_2 = \chi_{96*5+}$	6	4	2	2	1	1	
$1680_2 = \chi_{97+}$	7	4	1	2	2	1	
$1680_3 = \chi_{97*5+}$	7	4	1	2	2	1	
$1680_4 = \chi_{98+}$	7	4	1	2	2	1	
$1680_5 = \chi_{98*5+}$	7	4	1	2	2	1	