

$U_6(2).2 \pmod{2}$

	blocks	defect	matrix
$2.G :$	1 2	17 2	111×9 4×1
$6.G :$	3	16	71×10

Block 1:	$\varphi_{1,0}$	$\varphi_{2,0}$	$\varphi_{3,0}$	φ_{4+}	$\varphi_{6,0}$	$\varphi_{7,0}$	φ_{8+}	$\varphi_{10,0}$	$\varphi_{11,0}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	1	.	.	.	.	.	.	.	.
$22_1 = \chi_{2,0}$	2	1	.	.	.	.	.	.	.
$22_2 = \chi_{2,1}$	2	1	.	.	.	.	.	.	.
$231_1 = \chi_{3,0}$	3	2	1	.	1	.	.	.	.
$231_2 = \chi_{3,1}$	3	2	1	.	1	.	.	.	.
$252_1 = \chi_{4,0}$	4	3	1	.	1	.	.	.	.
$252_2 = \chi_{4,1}$	4	3	1	.	1	.	.	.	.
$385_1 = \chi_{5,0}$	3	1	2	1	1	.	.	.	.
$385_2 = \chi_{5,1}$	3	1	2	1	1	.	.	.	.
$440_1 = \chi_{6,0}$	4	2	3	1	1	.	.	.	.
$440_2 = \chi_{6,1}$	4	2	3	1	1	.	.	.	.
$560_1 = \chi_{7,0}$	4	2	2	1	2	.	.	.	.
$560_2 = \chi_{7,1}$	4	2	2	1	2	.	.	.	.
$616_1 = \chi_{8,0}$	2	3	.	.	1	1	.	.	.
$616_2 = \chi_{8,1}$	2	3	.	.	1	1	.	.	.
$1540_1 = \chi_{9+}$	4	4	2	2	2	2	.	.	.
$1155_1 = \chi_{11,0}$	5	3	3	2	2	1	.	.	.
$1155_2 = \chi_{11,1}$	5	3	3	2	2	1	.	.	.
$2310_1 = \chi_{12+}$	10	6	6	4	4	2	.	.	.
$1386_1 = \chi_{14,0}$	8	5	4	2	3	1	.	.	.
$1386_2 = \chi_{14,1}$	8	5	4	2	3	1	.	.	.
$1540_2 = \chi_{15,0}$	8	4	5	3	3	1	.	.	.
$1540_3 = \chi_{15,1}$	8	4	5	3	3	1	.	.	.
$6160_1 = \chi_{16+}$	16	8	12	9	6	4	1	.	.
$3520_1 = \chi_{18,0}$	8	6	4	2	4	1	.	1	.
$3520_2 = \chi_{18,1}$	8	6	4	2	4	1	.	1	.
$4620_1 = \chi_{19,0}$	8	5	3	2	4	1	.	.	1
$4620_2 = \chi_{19,1}$	8	5	3	2	4	1	.	.	1
$4928_1 = \chi_{20,0}$	8	4	4	3	5	1	.	.	1
$4928_2 = \chi_{20,1}$	8	4	4	3	5	1	.	.	1
$5544_1 = \chi_{21,0}$	10	6	5	4	5	2	.	.	1
$5544_2 = \chi_{21,1}$	10	6	5	4	5	2	.	.	1
$12320_1 = \chi_{22+}$	24	16	14	11	12	6	1	2	.
$6930_1 = \chi_{24,0}$	10	6	7	6	5	3	1	1	.
$6930_2 = \chi_{24,1}$	10	6	7	6	5	3	1	1	.
$8064_1 = \chi_{25,0}$	10	8	4	4	6	3	.	1	1
$8064_2 = \chi_{25,1}$	10	8	4	4	6	3	.	1	1
$9240_1 = \chi_{26,0}$	8	5	4	4	5	2	1	1	1
$9240_2 = \chi_{26,1}$	8	5	4	4	5	2	1	1	1

(Block 1:)	$\varphi_{1,0}$	$\varphi_{2,0}$	$\varphi_{3,0}$	φ_{4+}	$\varphi_{6,0}$	$\varphi_{7,0}$	φ_{8+}	$\varphi_{10,0}$	$\varphi_{11,0}$
18480 ₁ = χ_{27+}	16	10	8	8	10	4	2	2	2
20790 ₁ = χ_{29+}	26	16	14	12	14	6	2	2	2
10395 ₁ = $\chi_{31,0}$	13	8	7	6	7	3	1	1	1
10395 ₂ = $\chi_{31,1}$	13	8	7	6	7	3	1	1	1
20790 ₂ = χ_{32+}	26	16	14	12	14	6	2	2	2
11264 ₁ = $\chi_{34,0}$	22	12	14	12	10	6	1	.	1
11264 ₂ = $\chi_{34,1}$	22	12	14	12	10	6	1	.	1
13860 ₁ = $\chi_{35,0}$	8	5	5	6	6	3	2	2	1
13860 ₂ = $\chi_{35,1}$	8	5	5	6	6	3	2	2	1
14784 ₁ = $\chi_{36,0}$	30	18	18	14	14	7	1	1	1
14784 ₂ = $\chi_{36,1}$	30	18	18	14	14	7	1	1	1
18711 ₁ = $\chi_{37,0}$	31	19	18	14	15	7	2	2	1
18711 ₂ = $\chi_{37,1}$	31	19	18	14	15	7	2	2	1
18711 ₃ = $\chi_{38,0}$	31	19	18	14	15	7	2	2	1
18711 ₄ = $\chi_{38,1}$	31	19	18	14	15	7	2	2	1
41580 ₁ = χ_{39+}	52	32	28	24	28	12	4	4	4
24640 ₁ = $\chi_{41,0}$	24	17	14	14	15	8	3	4	1
24640 ₂ = $\chi_{41,1}$	24	17	14	14	15	8	3	4	1
51030 ₁ = χ_{42+}	62	40	34	30	34	16	5	6	4
37422 ₁ = $\chi_{45,0}$	38	26	19	18	22	10	4	5	3
37422 ₂ = $\chi_{45,1}$	38	26	19	18	22	10	4	5	3
40095 ₁ = $\chi_{46,0}$	49	32	27	23	27	12	4	5	3
40095 ₂ = $\chi_{46,1}$	49	32	27	23	27	12	4	5	3
56 ₁ = $\chi_{47,0}$	2	1	1	.	.	.	.	.	.
56 ₂ = $\chi_{47,1}$	2	1	1	.	.	.	.	.	.
176 ₁ = $\chi_{48,0}$	2	1	.	.	1	.	.	.	.
176 ₂ = $\chi_{48,1}$	2	1	.	.	1	.	.	.	.
616 ₃ = $\chi_{49,0}$	6	3	3	1	2	.	.	.	.
616 ₄ = $\chi_{49,1}$	6	3	3	1	2	.	.	.	.
792 ₁ = $\chi_{50,0}$	4	3	1	1	1	1	.	.	.
792 ₂ = $\chi_{50,1}$	4	3	1	1	1	1	.	.	.
1232 ₁ = $\chi_{51,0}$	8	5	4	2	2	1	.	.	.
1232 ₂ = $\chi_{51,1}$	8	5	4	2	2	1	.	.	.
2464 ₁ = $\chi_{52,0}$	10	5	7	5	4	2	.	.	.
2464 ₂ = $\chi_{52,1}$	10	5	7	5	4	2	.	.	.
3080 ₁ = $\chi_{53,0}$	4	4	1	1	3	1	.	1	.
3080 ₂ = $\chi_{53,1}$	4	4	1	1	3	1	.	1	.
6720 ₁ = χ_{54+}	20	10	14	10	8	4	1	.	.
5544 ₃ = $\chi_{56,0}$	10	6	5	4	5	2	.	.	1
5544 ₄ = $\chi_{56,1}$	10	6	5	4	5	2	.	.	1

(Block 1:)	$\varphi_{1,0}$	$\varphi_{2,0}$	$\varphi_{3,0}$	φ_{4+}	$\varphi_{6,0}$	$\varphi_{7,0}$	φ_{8+}	$\varphi_{10,0}$	$\varphi_{11,0}$
$6160_2 = \chi_{57,0}$	16	9	8	5	7	2	.	.	1
$6160_3 = \chi_{57,1}$	16	9	8	5	7	2	.	.	1
$12320_2 = \chi_{58+}$	24	16	14	11	12	6	1	2	.
$7776_1 = \chi_{60,0}$	18	11	11	7	8	3	1	1	.
$7776_2 = \chi_{60,1}$	18	11	11	7	8	3	1	1	.
$9856_1 = \chi_{61,0}$	10	8	4	4	6	3	1	1	1
$9856_2 = \chi_{61,1}$	10	8	4	4	6	3	1	1	1
$11264_3 = \chi_{62,0}$	22	12	14	12	10	6	1	.	1
$11264_4 = \chi_{62,1}$	22	12	14	12	10	6	1	.	1
$12320_3 = \chi_{63,0}$	20	13	11	9	10	5	1	1	1
$12320_4 = \chi_{63,1}$	20	13	11	9	10	5	1	1	1
$24640_3 = \chi_{64+}$	40	26	22	18	20	10	2	2	2
$13608_1 = \chi_{66,0}$	24	14	15	12	12	6	1	1	1
$13608_2 = \chi_{66,1}$	24	14	15	12	12	6	1	1	1
$15840_1 = \chi_{67,0}$	28	19	15	11	14	6	1	2	1
$15840_2 = \chi_{67,1}$	28	19	15	11	14	6	1	2	1
$18480_2 = \chi_{68,0}$	16	10	8	8	10	4	2	2	2
$18480_3 = \chi_{68,1}$	16	10	8	8	10	4	2	2	2
$21384_1 = \chi_{69,0}$	18	13	9	9	12	5	2	3	2
$21384_2 = \chi_{69,1}$	18	13	9	9	12	5	2	3	2
$22176_1 = \chi_{70,0}$	26	16	16	14	14	7	3	3	1
$22176_2 = \chi_{70,1}$	26	16	16	14	14	7	3	3	1
$24640_4 = \chi_{71,0}$	32	19	16	13	17	6	2	2	3
$24640_5 = \chi_{71,1}$	32	19	16	13	17	6	2	2	3
$49280_1 = \chi_{72+}$	56	36	30	27	32	14	5	6	4
$27720_1 = \chi_{74,0}$	36	22	21	18	19	9	3	3	2
$27720_2 = \chi_{74,1}$	36	22	21	18	19	9	3	3	2
$30240_1 = \chi_{75,0}$	36	24	20	18	20	10	3	4	2
$30240_2 = \chi_{75,1}$	36	24	20	18	20	10	3	4	2
$44352_1 = \chi_{77,0}$	48	32	26	24	27	13	5	6	3
$44352_2 = \chi_{77,1}$	48	32	26	24	27	13	5	6	3

$$\begin{array}{ll}
\varphi_{1,0} = 1_1 & \varphi_{7,0} = 400_1 \\
\varphi_{2,0} = 20_1 & \varphi_{8+} = 1792_1 \\
\varphi_{3,0} = 34_1 & \varphi_{10,0} = 1960_1 \\
\varphi_{4+} = 140_1 & \varphi_{11,0} = 3114_1 \\
\varphi_{6,0} = 154_1 &
\end{array}$$

Block 2:	$\varphi_{12,0}$
$32768_1 = \chi_{44,0}$	1
$32768_2 = \chi_{44,1}$	1
$32768_3 = \chi_{76,0}$	1
$32768_4 = \chi_{76,1}$	1

$$\varphi_{12,0} = 32768_1$$

Block 3:	φ_{13+}	φ_{14+}	φ_{15+}	φ_{16+}	φ_{17+}	φ_{18+}	φ_{19+}	φ_{20+}	φ_{21+}	φ_{22+}
$42_1 = \chi_{78+}$	1	1	.	.	.	.	.	.	.	.
$420_1 = \chi_{79+}$	1	2	1	1	.	.	.	.	.	.
$462_1 = \chi_{80+}$	2	3	1	1	.	.	.	.	.	.
$924_1 = \chi_{81+}$	4	4	1	1	1	.	.	.	.	.
$1848_1 = \chi_{82+}$	3	4	2	1	1	1	.	.	.	.
$2310_2 = \chi_{83+}$	2	5	2	2	.	.	1	.	.	.
$2772_1 = \chi_{84+}$	3	4	.	2	1	.	.	1	.	.
$2970_1 = \chi_{85+}$	3	5	1	2	1	.	.	1	.	.
$2970_2 = \chi_{86+}$	3	5	1	2	1	.	.	1	.	.
$2970_3 = \chi_{87+}$	3	5	1	2	1	.	.	1	.	.
$4620_3 = \chi_{88+}$	6	8	2	3	2	1	.	1	.	.
$4620_4 = \chi_{89+}$	7	12	5	4	1	1	1	.	.	.
$5040_1 = \chi_{90+}$	7	10	3	4	2	1	.	1	.	.
$5544_5 = \chi_{91+}$	7	10	2	4	2	.	1	1	.	.
$6930_3 = \chi_{92+}$	8	13	4	5	2	1	1	1	.	.
$6930_4 = \chi_{93+}$	8	13	4	5	2	1	1	1	.	.
$6930_5 = \chi_{94+}$	8	13	4	5	2	1	1	1	.	.
$6930_6 = \chi_{95+}$	8	13	4	5	2	1	1	1	.	.
$7392_1 = \chi_{96+}$	6	10	1	5	2	.	1	2	.	.
$9240_3 = \chi_{97+}$	9	14	3	6	3	1	1	2	.	.
$9240_4 = \chi_{98+}$	9	14	3	6	3	1	1	2	.	.
$11088_1 = \chi_{99+}$	13	22	8	8	3	2	2	1	.	.
$13440_1 = \chi_{100+}$	12	22	6	9	3	1	3	2	.	.
$13860_3 = \chi_{101+}$	16	26	8	10	4	2	2	2	.	.
$18480_4 = \chi_{102+}$	10	14	3	7	4	.	2	2	1	.
$18480_5 = \chi_{103+}$	13	16	4	7	5	1	1	2	1	.
$20790_3 = \chi_{104+}$	15	21	6	9	5	1	2	2	1	.
$22176_3 = \chi_{105+}$	16	24	8	10	5	2	2	2	1	.
$23760_1 = \chi_{106+}$	18	26	7	11	6	1	2	3	1	.
$23760_2 = \chi_{107+}$	18	26	7	11	6	1	2	3	1	.
$23760_3 = \chi_{108+}$	18	26	7	11	6	1	2	3	1	.
$29568_1 = \chi_{109+}$	12	22	6	9	3	1	3	2	.	1
$36960_1 = \chi_{110+}$	32	48	13	20	10	3	4	5	1	.
$37422_3 = \chi_{111+}$	34	51	14	21	10	3	4	5	1	.
$37422_4 = \chi_{112+}$	34	51	14	21	10	3	4	5	1	.
$41580_2 = \chi_{113+}$	30	42	12	18	10	2	4	4	2	.
$43008_1 = \chi_{114+}$	24	44	12	18	6	2	6	4	.	1
$51030_2 = \chi_{115+}$	39	55	14	24	13	3	4	7	2	.
$51030_3 = \chi_{116+}$	29	45	12	19	9	2	5	4	1	1
$55440_1 = \chi_{117+}$	31	48	11	21	10	2	5	6	1	1

(Block 3:)	φ_{13+}	φ_{14+}	φ_{15+}	φ_{16+}	φ_{17+}	φ_{18+}	φ_{19+}	φ_{20+}	φ_{21+}	φ_{22+}
$59136_1 = \chi_{118+}$	28	40	10	18	10	2	4	5	2	1
$74844_1 = \chi_{119+}$	45	66	15	29	15	2	7	8	2	1
$80190_1 = \chi_{120+}$	51	77	20	33	16	4	8	8	2	1
$240_1 = \chi_{121+}$	1	2	1	.	.	.	.	.	.	.
$1344_1 = \chi_{122+}$	5	6	2	2	1	.	.	.	.	.
$2112_1 = \chi_{123+}$	5	6	2	2	1	1	.	.	.	.
$3696_1 = \chi_{124+}$	3	8	4	3	.	1	1	.	.	.
$5280_1 = \chi_{125+}$	8	12	4	4	2	1	.	1	.	.
$7392_2 = \chi_{126+}$	6	10	1	5	2	.	1	2	.	.
$11088_2 = \chi_{127+}$	13	22	8	8	3	2	2	1	.	.
$12672_1 = \chi_{128+}$	14	22	5	9	4	1	1	3	.	.
$14784_3 = \chi_{129+}$	16	24	5	10	5	1	2	3	.	.
$14784_4 = \chi_{130+}$	17	28	8	11	4	1	3	2	.	.
$15552_1 = \chi_{131+}$	17	28	8	11	4	2	3	2	.	.
$18480_6 = \chi_{132+}$	19	32	9	13	5	2	3	3	.	.
$18480_7 = \chi_{133+}$	13	16	4	7	5	1	1	2	1	.
$27216_1 = \chi_{134+}$	23	34	11	14	7	3	2	3	1	.
$29568_2 = \chi_{135+}$	26	38	12	15	8	3	3	3	1	.
$30240_3 = \chi_{136+}$	24	34	8	15	8	2	2	5	1	.
$30240_4 = \chi_{137+}$	14	24	6	10	4	1	3	2	.	1
$36960_2 = \chi_{138+}$	32	48	13	20	10	3	4	5	1	.
$36960_3 = \chi_{139+}$	32	48	13	20	10	3	4	5	1	.
$42240_1 = \chi_{140+}$	28	40	10	18	10	1	4	5	2	.
$42768_1 = \chi_{141+}$	17	26	6	12	6	1	4	3	1	1
$43008_2 = \chi_{142+}$	24	44	12	18	6	2	6	4	.	1
$44352_3 = \chi_{143+}$	33	46	12	20	11	2	4	5	2	.
$44352_4 = \chi_{144+}$	33	46	12	20	11	2	4	5	2	.
$55440_2 = \chi_{145+}$	31	48	11	21	10	2	5	6	1	1
$73920_1 = \chi_{146+}$	45	68	18	29	14	3	7	7	2	1
$73920_2 = \chi_{147+}$	44	64	15	28	15	3	6	8	2	1
$73920_3 = \chi_{148+}$	45	68	18	29	14	3	7	7	2	1

$$\begin{array}{ll}
\varphi_{13+} = 12_1 & \varphi_{18+} = 768_1 \\
\varphi_{14+} = 30_1 & \varphi_{19+} = 1440_1 \\
\varphi_{15+} = 168_1 & \varphi_{20+} = 1848_1 \\
\varphi_{16+} = 180_1 & \varphi_{21+} = 7968_1 \\
\varphi_{17+} = 408_1 & \varphi_{22+} = 16128_1
\end{array}$$