

$U_6(2).3 \pmod{11}$

	blocks	defect	matrix
$G :$	1	1	7×5
	2	1	7×5
	$3 = \overline{2}$	1	7×5
	4	0	$22_1 = \chi_{2,0}, \varphi_{2,0}$
	5	0	$22_2 = \chi_{2,1}, \varphi_{2,1}$
	$6 = \overline{5}$	0	$22_3 = \chi_{2,2}, \varphi_{2,2}$
	7	0	$231_1 = \chi_{3,0}, \varphi_{3,0}$
	8	0	$231_2 = \chi_{3,1}, \varphi_{3,1}$
	$9 = \overline{8}$	0	$231_3 = \chi_{3,2}, \varphi_{3,2}$
	10	0	$385_1 = \chi_{5,0}, \varphi_{5,0}$
	11	0	$385_2 = \chi_{5,1}, \varphi_{5,1}$
	$12 = \overline{11}$	0	$385_3 = \chi_{5,2}, \varphi_{5,2}$
	13	0	$440_1 = \chi_{6,0}, \varphi_{6,0}$
	14	0	$440_2 = \chi_{6,1}, \varphi_{6,1}$
	$15 = \overline{14}$	0	$440_3 = \chi_{6,2}, \varphi_{6,2}$
	16	0	$616_1 = \chi_{8,0}, \varphi_{8,0}$
	17	0	$616_2 = \chi_{8,1}, \varphi_{8,1}$
	$18 = \overline{17}$	0	$616_3 = \chi_{8,2}, \varphi_{8,2}$
	19	0	$770_1 = \chi_{9,0}, \varphi_{9,0}$
	20	0	$770_2 = \chi_{9,1}, \varphi_{9,1}$
	21	0	$770_3 = \chi_{9,2}, \varphi_{9,2}$
	$22 = \overline{19}$	0	$770_4 = \chi_{10,0}, \varphi_{10,0}$
	$23 = \overline{21}$	0	$770_5 = \chi_{10,1}, \varphi_{10,1}$
	$24 = \overline{20}$	0	$770_6 = \chi_{10,2}, \varphi_{10,2}$
	25	0	$3465_1 = \chi_{11+}, \varphi_{11+}$
	26	0	$1386_1 = \chi_{14,0}, \varphi_{14,0}$
	27	0	$1386_2 = \chi_{14,1}, \varphi_{14,1}$
	$28 = \overline{27}$	0	$1386_3 = \chi_{14,2}, \varphi_{14,2}$
	29	0	$1540_1 = \chi_{15,0}, \varphi_{15,0}$
	30	0	$1540_2 = \chi_{15,1}, \varphi_{15,1}$
	$31 = \overline{30}$	0	$1540_3 = \chi_{15,2}, \varphi_{15,2}$
	32	0	$3080_1 = \chi_{16,0}, \varphi_{16,0}$
	33	0	$3080_2 = \chi_{16,1}, \varphi_{16,1}$
	34	0	$3080_3 = \chi_{16,2}, \varphi_{16,2}$
	$35 = \overline{32}$	0	$3080_4 = \chi_{17,0}, \varphi_{17,0}$
	$36 = \overline{34}$	0	$3080_5 = \chi_{17,1}, \varphi_{17,1}$
	$37 = \overline{33}$	0	$3080_6 = \chi_{17,2}, \varphi_{17,2}$
	38	0	$3520_1 = \chi_{18,0}, \varphi_{18,0}$
	39	0	$3520_2 = \chi_{18,1}, \varphi_{18,1}$
	$40 = \overline{39}$	0	$3520_3 = \chi_{18,2}, \varphi_{18,2}$

	blocks	defect	matrix
	41	0	$4620_1 = \chi_{19,0}, \varphi_{19,0}$
	42	0	$4620_2 = \chi_{19,1}, \varphi_{19,1}$
	$43 = \overline{42}$	0	$4620_3 = \chi_{19,2}, \varphi_{19,2}$
	44	0	$4928_1 = \chi_{20,0}, \varphi_{20,0}$
	45	0	$4928_2 = \chi_{20,1}, \varphi_{20,1}$
	$46 = \overline{45}$	0	$4928_3 = \chi_{20,2}, \varphi_{20,2}$
	47	0	$5544_1 = \chi_{21,0}, \varphi_{21,0}$
	48	0	$5544_2 = \chi_{21,1}, \varphi_{21,1}$
	$49 = \overline{48}$	0	$5544_3 = \chi_{21,2}, \varphi_{21,2}$
	50	0	$6160_1 = \chi_{22,0}, \varphi_{22,0}$
	51	0	$6160_2 = \chi_{22,1}, \varphi_{22,1}$
	52	0	$6160_3 = \chi_{22,2}, \varphi_{22,2}$
	$53 = \overline{50}$	0	$6160_4 = \chi_{23,0}, \varphi_{23,0}$
	$54 = \overline{52}$	0	$6160_5 = \chi_{23,1}, \varphi_{23,1}$
	$55 = \overline{51}$	0	$6160_6 = \chi_{23,2}, \varphi_{23,2}$
	56	0	$6930_1 = \chi_{24,0}, \varphi_{24,0}$
	57	0	$6930_2 = \chi_{24,1}, \varphi_{24,1}$
	$58 = \overline{57}$	0	$6930_3 = \chi_{24,2}, \varphi_{24,2}$
	59	0	$27720_1 = \chi_{26+}, \varphi_{26+}$
	60	0	$10395_1 = \chi_{29,0}, \varphi_{29,0}$
	61	0	$10395_2 = \chi_{29,1}, \varphi_{29,1}$
	62	0	$10395_3 = \chi_{29,2}, \varphi_{29,2}$
	$63 = \overline{60}$	0	$10395_4 = \chi_{30,0}, \varphi_{30,0}$
	$64 = \overline{62}$	0	$10395_5 = \chi_{30,1}, \varphi_{30,1}$
	$65 = \overline{61}$	0	$10395_6 = \chi_{30,2}, \varphi_{30,2}$
	66	0	$31185_1 = \chi_{31+}, \varphi_{31+}$
	67	0	$11264_1 = \chi_{34,0}, \varphi_{34,0}$
	68	0	$11264_2 = \chi_{34,1}, \varphi_{34,1}$
	$69 = \overline{68}$	0	$11264_3 = \chi_{34,2}, \varphi_{34,2}$
	70	0	$13860_1 = \chi_{35,0}, \varphi_{35,0}$
	71	0	$13860_2 = \chi_{35,1}, \varphi_{35,1}$
	$72 = \overline{71}$	0	$13860_3 = \chi_{35,2}, \varphi_{35,2}$
	73	0	$14784_1 = \chi_{36,0}, \varphi_{36,0}$
	74	0	$14784_2 = \chi_{36,1}, \varphi_{36,1}$
	$75 = \overline{74}$	0	$14784_3 = \chi_{36,2}, \varphi_{36,2}$
	76	0	$18711_1 = \chi_{37,0}, \varphi_{37,0}$
	77	0	$18711_2 = \chi_{37,1}, \varphi_{37,1}$
	$78 = \overline{77}$	0	$18711_3 = \chi_{37,2}, \varphi_{37,2}$
	79	0	$18711_4 = \chi_{38,0}, \varphi_{38,0}$
	80	0	$18711_5 = \chi_{38,1}, \varphi_{38,1}$

	blocks	defect	matrix
	81 = $\overline{80}$	0	18711 ₆ = $\chi_{38,2}, \varphi_{38,2}$
	82	0	20790 ₁ = $\chi_{39,0}, \varphi_{39,0}$
	83	0	20790 ₂ = $\chi_{39,1}, \varphi_{39,1}$
	84	0	20790 ₃ = $\chi_{39,2}, \varphi_{39,2}$
	85 = $\overline{82}$	0	20790 ₄ = $\chi_{40,0}, \varphi_{40,0}$
	86 = $\overline{84}$	0	20790 ₅ = $\chi_{40,1}, \varphi_{40,1}$
	87 = $\overline{83}$	0	20790 ₆ = $\chi_{40,2}, \varphi_{40,2}$
	88	0	24640 ₁ = $\chi_{41,0}, \varphi_{41,0}$
	89	0	24640 ₂ = $\chi_{41,1}, \varphi_{41,1}$
	90 = $\overline{89}$	0	24640 ₃ = $\chi_{41,2}, \varphi_{41,2}$
	91	0	37422 ₁ = $\chi_{45,0}, \varphi_{43,0}$
	92	0	37422 ₂ = $\chi_{45,1}, \varphi_{43,1}$
	93 = $\overline{92}$	0	37422 ₃ = $\chi_{45,2}, \varphi_{43,2}$
	94	0	40095 ₁ = $\chi_{46,0}, \varphi_{44,0}$
	95	0	40095 ₂ = $\chi_{46,1}, \varphi_{44,1}$
	96 = $\overline{95}$	0	40095 ₃ = $\chi_{46,2}, \varphi_{44,2}$
3.G :	97	1	7×5
	98	1	7×5
	99	1	7×5
	100 = 97*		
	101 = 99*		
	102 = 98*		
	103	0	231 ₄ = $\chi_{49,0}, \varphi_{47,0}$
	104	0	231 ₅ = $\chi_{49,1}, \varphi_{47,1}$
	105	0	231 ₆ = $\chi_{49,2}, \varphi_{47,2}$
	106 = 103*		
	107 = 105*		
	108 = 104*		
	109	0	462 ₁ = $\chi_{50,0}, \varphi_{48,0}$
	110	0	462 ₂ = $\chi_{50,1}, \varphi_{48,1}$
	111	0	462 ₃ = $\chi_{50,2}, \varphi_{48,2}$
	112 = 109*		
	113 = 111*		
	114 = 110*		
	115	0	924 ₁ = $\chi_{51,0}, \varphi_{49,0}$
	116	0	924 ₂ = $\chi_{51,1}, \varphi_{49,1}$
	117	0	924 ₃ = $\chi_{51,2}, \varphi_{49,2}$
	118 = 115*		
	119 = 117*		
	120 = 116*		

	blocks	defect	matrix
	121	0	$1155_1 = \chi_{52,0}, \varphi_{50,0}$
	122	0	$1155_2 = \chi_{52,1}, \varphi_{50,1}$
	123	0	$1155_3 = \chi_{52,2}, \varphi_{50,2}$
	124 = 121*		
	125 = 123*		
	126 = 122*		
	127	0	$1386_4 = \chi_{53,0}, \varphi_{51,0}$
	128	0	$1386_5 = \chi_{53,1}, \varphi_{51,1}$
	129	0	$1386_6 = \chi_{53,2}, \varphi_{51,2}$
	130 = 127*		
	131 = 129*		
	132 = 128*		
	133	0	$4455_1 = \chi_{54+}, \varphi_{52+}$
	134 = 133*		
	135	0	$2310_1 = \chi_{57,0}, \varphi_{55,0}$
	136	0	$2310_2 = \chi_{57,1}, \varphi_{55,1}$
	137	0	$2310_3 = \chi_{57,2}, \varphi_{55,2}$
	138 = 135*		
	139 = 137*		
	140 = 136*		
	141	0	$2310_7 = \chi_{58,0}, \varphi_{56,0}$
	142	0	$2310_8 = \chi_{58,1}, \varphi_{56,1}$
	143	0	$2310_9 = \chi_{58,2}, \varphi_{56,2}$
	144 = 141*		
	145 = 143*		
	146 = 142*		
	147	0	$2772_1 = \chi_{60,0}, \varphi_{58,0}$
	148	0	$2772_2 = \chi_{60,1}, \varphi_{58,1}$
	149	0	$2772_3 = \chi_{60,2}, \varphi_{58,2}$
	150 = 147*		
	151 = 149*		
	152 = 148*		
	153	0	$3465_2 = \chi_{61,0}, \varphi_{59,0}$
	154	0	$3465_3 = \chi_{61,1}, \varphi_{59,1}$
	155	0	$3465_4 = \chi_{61,2}, \varphi_{59,2}$
	156 = 153*		
	157 = 155*		
	158 = 154*		
	159	0	$10395_7 = \chi_{62+}, \varphi_{60+}$
	160 = 159*		

	blocks	defect	matrix
	161	0	$3696_1 = \chi_{65,0}, \varphi_{63,0}$
	162	0	$3696_2 = \chi_{65,1}, \varphi_{63,1}$
	163	0	$3696_3 = \chi_{65,2}, \varphi_{63,2}$
	164 = 161*		
	165 = 163*		
	166 = 162*		
	167	0	$4620_4 = \chi_{66,0}, \varphi_{64,0}$
	168	0	$4620_5 = \chi_{66,1}, \varphi_{64,1}$
	169	0	$4620_6 = \chi_{66,2}, \varphi_{64,2}$
	170 = 167*		
	171 = 169*		
	172 = 168*		
	173	0	$4620_{10} = \chi_{67,0}, \varphi_{65,0}$
	174	0	$4620_{11} = \chi_{67,1}, \varphi_{65,1}$
	175	0	$4620_{12} = \chi_{67,2}, \varphi_{65,2}$
	176 = 173*		
	177 = 175*		
	178 = 174*		
	179	0	$5544_4 = \chi_{68,0}, \varphi_{66,0}$
	180	0	$5544_5 = \chi_{68,1}, \varphi_{66,1}$
	181	0	$5544_6 = \chi_{68,2}, \varphi_{66,2}$
	182 = 179*		
	183 = 181*		
	184 = 180*		
	185	0	$6930_4 = \chi_{70,0}, \varphi_{68,0}$
	186	0	$6930_5 = \chi_{70,1}, \varphi_{68,1}$
	187	0	$6930_6 = \chi_{70,2}, \varphi_{68,2}$
	188 = 185*		
	189 = 187*		
	190 = 186*		
	191	0	$9240_1 = \chi_{71,0}, \varphi_{69,0}$
	192	0	$9240_2 = \chi_{71,1}, \varphi_{69,1}$
	193	0	$9240_3 = \chi_{71,2}, \varphi_{69,2}$
	194 = 191*		
	195 = 193*		
	196 = 192*		
	197	0	$9240_7 = \chi_{72,0}, \varphi_{70,0}$
	198	0	$9240_8 = \chi_{72,1}, \varphi_{70,1}$
	199	0	$9240_9 = \chi_{72,2}, \varphi_{70,2}$
	200 = 197*		

	blocks	defect	matrix
	201 = 199*		
	202 = 198*		
	203	0	$10395_9 = \chi_{73,0}, \varphi_{71,0}$
	204	0	$10395_{10} = \chi_{73,1}, \varphi_{71,1}$
	205	0	$10395_{11} = \chi_{73,2}, \varphi_{71,2}$
	206 = 203*		
	207 = 205*		
	208 = 204*		
	209	0	$11088_1 = \chi_{74,0}, \varphi_{72,0}$
	210	0	$11088_2 = \chi_{74,1}, \varphi_{72,1}$
	211	0	$11088_3 = \chi_{74,2}, \varphi_{72,2}$
	212 = 209*		
	213 = 211*		
	214 = 210*		
	215	0	$35640_1 = \chi_{75+}, \varphi_{73+}$
	216 = 215*		
	217	0	$14784_4 = \chi_{78,0}, \varphi_{76,0}$
	218	0	$14784_5 = \chi_{78,1}, \varphi_{76,1}$
	219	0	$14784_6 = \chi_{78,2}, \varphi_{76,2}$
	220 = 217*		
	221 = 219*		
	222 = 218*		
	223	0	$18480_1 = \chi_{79,0}, \varphi_{77,0}$
	224	0	$18480_2 = \chi_{79,1}, \varphi_{77,1}$
	225	0	$18480_3 = \chi_{79,2}, \varphi_{77,2}$
	226 = 223*		
	227 = 225*		
	228 = 224*		
	229	0	$18711_7 = \chi_{80,0}, \varphi_{78,0}$
	230	0	$18711_8 = \chi_{80,1}, \varphi_{78,1}$
	231	0	$18711_9 = \chi_{80,2}, \varphi_{78,2}$
	232 = 229*		
	233 = 231*		
	234 = 230*		
	235	0	$18711_{13} = \chi_{81,0}, \varphi_{79,0}$
	236	0	$18711_{14} = \chi_{81,1}, \varphi_{79,1}$
	237	0	$18711_{15} = \chi_{81,2}, \varphi_{79,2}$
	238 = 235*		
	239 = 237*		
	240 = 236*		

	blocks	defect	matrix
	241	0	$20790_7 = \chi_{82,0}, \varphi_{81,0}$
	242	0	$20790_8 = \chi_{82,1}, \varphi_{81,1}$
	243	0	$20790_9 = \chi_{82,2}, \varphi_{81,2}$
	$244 = 241^*$		
	$245 = 243^*$		
	$246 = 242^*$		
	247	0	$27720_2 = \chi_{86,0}, \varphi_{82,0}$
	248	0	$27720_3 = \chi_{86,1}, \varphi_{82,1}$
	249	0	$27720_4 = \chi_{86,2}, \varphi_{82,2}$
	$250 = 247^*$		
	$251 = 249^*$		
	$252 = 248^*$		
	253	0	$29568_1 = \chi_{87,0}, \varphi_{83,0}$
	254	0	$29568_2 = \chi_{87,1}, \varphi_{83,1}$
	255	0	$29568_3 = \chi_{87,2}, \varphi_{83,2}$
	$256 = 253^*$		
	$257 = 255^*$		
	$258 = 254^*$		
	259	0	$37422_4 = \chi_{88,0}, \varphi_{84,0}$
	260	0	$37422_5 = \chi_{88,1}, \varphi_{84,1}$
	261	0	$37422_6 = \chi_{88,2}, \varphi_{84,2}$
	$262 = 259^*$		
	$263 = 261^*$		
	$264 = 260^*$		
	265	0	$40095_4 = \chi_{89,0}, \varphi_{85,0}$
	266	0	$40095_5 = \chi_{89,1}, \varphi_{85,1}$
	267	0	$40095_6 = \chi_{89,2}, \varphi_{85,2}$
	$268 = 265^*$		
	$269 = 267^*$		
	$270 = 266^*$		

Block 1:	$\varphi_{1,0}$	$\varphi_{4,0}$	$\varphi_{7,0}$	$\varphi_{25,0}$	$\varphi_{42,0}$	
$1_1 = \chi_{1,0}$	1	.	.	.	.	$\varphi_{1,0} = 1_1$
$252_1 = \chi_{4,0}$	1	1	.	.	.	$\varphi_{4,0} = 251_1$
$560_1 = \chi_{7,0}$	.	.	1	.	.	$\varphi_{7,0} = 560_1$
$8064_1 = \chi_{25,0}$	.	1	.	1	.	$\varphi_{25,0} = 7813_1$
$25515_1 = \chi_{42,0}$	.	.	1	.	1	$\varphi_{42,0} = 24955_1$
$25515_4 = \chi_{43,0}$	.	.	1	.	1	
$32768_1 = \chi_{44,0}$	.	.	.	1	1	

Block 2:	$\varphi_{1,1}$	$\varphi_{4,1}$	$\varphi_{7,1}$	$\varphi_{25,1}$	$\varphi_{42,1}$	
$1_2 = \chi_{1,1}$	1	.	.	.	.	$\varphi_{1,1} = 1_2$
$252_2 = \chi_{4,1}$	1	1	.	.	.	$\varphi_{4,1} = 251_2$
$560_2 = \chi_{7,1}$	.	.	1	.	.	$\varphi_{7,1} = 560_2$
$8064_2 = \chi_{25,1}$	.	1	.	1	.	$\varphi_{25,1} = 7813_2$
$25515_2 = \chi_{42,1}$	.	.	1	.	1	$\varphi_{42,1} = 24955_2$
$25515_5 = \chi_{43,1}$	.	.	1	.	1	
$32768_2 = \chi_{44,1}$	.	.	.	1	1	

Block 3:	$\varphi_{1,2}$	$\varphi_{4,2}$	$\varphi_{7,2}$	$\varphi_{25,2}$	$\varphi_{42,2}$	
$1_3 = \chi_{1,2}$	1	.	.	.	.	$\varphi_{1,2} = 1_3$
$252_3 = \chi_{4,2}$	1	1	.	.	.	$\varphi_{4,2} = 251_3$
$560_3 = \chi_{7,2}$	.	.	1	.	.	$\varphi_{7,2} = 560_3$
$8064_3 = \chi_{25,2}$	.	1	.	1	.	$\varphi_{25,2} = 7813_3$
$25515_3 = \chi_{42,2}$	.	.	1	.	1	$\varphi_{42,2} = 24955_3$
$25515_6 = \chi_{43,2}$	.	.	1	.	1	
$32768_3 = \chi_{44,2}$	.	.	.	1	1	

Blocks 97, 100:	$\varphi_{45,0}$	$\varphi_{46,1}$	$\varphi_{57,0}$	$\varphi_{67,1}$	$\varphi_{80,0}$	
$21_1 = \chi_{47,0}$	1	.	.	.	.	$\varphi_{45,0} = 21_1$
$210_2 = \chi_{48,1}$	.	1	.	.	.	$\varphi_{46,1} = 210_2$
$2520_1 = \chi_{59,0}$	1	.	1	.	.	$\varphi_{57,0} = 2499_1$
$6720_2 = \chi_{69,1}$	.	1	.	1	.	$\varphi_{67,1} = 6510_2$
$21504_1 = \chi_{83,0}$	.	.	1	.	1	$\varphi_{80,0} = 19005_1$
$25515_8 = \chi_{84,1}$	.	.	.	1	1	
$25515_{14} = \chi_{85,1}$	.	.	.	1	1	

Blocks 98, 102:	$\varphi_{45,1}$	$\varphi_{46,2}$	$\varphi_{57,1}$	$\varphi_{67,2}$	$\varphi_{80,1}$	
$21_2 = \chi_{47,1}$	1	.	.	.	.	$\varphi_{45,1} = 21_2$
$210_3 = \chi_{48,2}$	.	1	.	.	.	$\varphi_{46,2} = 210_3$
$2520_2 = \chi_{59,1}$	1	.	1	.	.	$\varphi_{57,1} = 2499_2$
$6720_3 = \chi_{69,2}$	.	1	.	1	.	$\varphi_{67,2} = 6510_3$
$21504_2 = \chi_{83,1}$	.	.	1	.	1	$\varphi_{80,1} = 19005_2$
$25515_9 = \chi_{84,2}$	.	.	.	1	1	
$25515_{15} = \chi_{85,2}$	.	.	.	1	1	

Blocks 99, 101:	$\varphi_{45,2}$	$\varphi_{46,0}$	$\varphi_{57,2}$	$\varphi_{67,0}$	$\varphi_{80,2}$	
$21_3 = \chi_{47,2}$	1	.	.	.	.	$\varphi_{45,2} = 21_3$
$210_1 = \chi_{48,0}$	.	1	.	.	.	$\varphi_{46,0} = 210_1$
$2520_3 = \chi_{59,2}$	1	.	1	.	.	$\varphi_{57,2} = 2499_3$
$6720_1 = \chi_{69,0}$	.	1	.	1	.	$\varphi_{67,0} = 6510_1$
$21504_3 = \chi_{83,2}$	.	.	1	.	1	$\varphi_{80,2} = 19005_3$
$25515_7 = \chi_{84,0}$	.	.	.	1	1	
$25515_{13} = \chi_{85,0}$	.	.	.	1	1	