

$U_3(8).3_2 \pmod{19}$

	blocks	defect	matrix
$G :$	1	1	9×3
	2	1	9×3
	$3 = \overline{2}$	1	9×3
	4	0	$57_1 = \chi_{3,0}, \varphi_{3,0}$
	5	0	$57_2 = \chi_{3,1}, \varphi_{3,1}$
	6	0	$57_3 = \chi_{3,2}, \varphi_{3,2}$
	$7 = \overline{4}$	0	$57_4 = \chi_{4,0}, \varphi_{4,0}$
	$8 = \overline{6}$	0	$57_5 = \chi_{4,1}, \varphi_{4,1}$
	$9 = \overline{5}$	0	$57_6 = \chi_{4,2}, \varphi_{4,2}$
	10	0	$399_1 = \chi_{5+}, \varphi_{5+}$
	11	0	$399_2 = \chi_{8,0}, \varphi_{8,0}$
	12	0	$399_3 = \chi_{8,1}, \varphi_{8,1}$
	$13 = \overline{12}$	0	$399_4 = \chi_{8,2}, \varphi_{8,2}$
	14	0	$399_5 = \chi_{9,0}, \varphi_{9,0}$
	15	0	$399_6 = \chi_{9,1}, \varphi_{9,1}$
	$16 = \overline{15}$	0	$399_7 = \chi_{9,2}, \varphi_{9,2}$
	17	0	$399_8 = \chi_{10,0}, \varphi_{10,0}$
	18	0	$399_9 = \chi_{10,1}, \varphi_{10,1}$
	$19 = \overline{18}$	0	$399_{10} = \chi_{10,2}, \varphi_{10,2}$
	20	0	$456_1 = \chi_{11,0}, \varphi_{11,0}$
	21	0	$456_2 = \chi_{11,1}, \varphi_{11,1}$
	22	0	$456_3 = \chi_{11,2}, \varphi_{11,2}$
	$23 = \overline{20}$	0	$456_4 = \chi_{12,0}, \varphi_{12,0}$
	$24 = \overline{22}$	0	$456_5 = \chi_{12,1}, \varphi_{12,1}$
	$25 = \overline{21}$	0	$456_6 = \chi_{12,2}, \varphi_{12,2}$
	26	0	$513_1 = \chi_{14,0}, \varphi_{14,0}$
	27	0	$513_2 = \chi_{14,1}, \varphi_{14,1}$
	$28 = \overline{27}$	0	$513_3 = \chi_{14,2}, \varphi_{14,2}$
	29	0	$513_4 = \chi_{15,0}, \varphi_{15,0}$
	30	0	$513_5 = \chi_{15,1}, \varphi_{15,1}$
	$31 = \overline{30}$	0	$513_6 = \chi_{15,2}, \varphi_{15,2}$
	32	0	$513_7 = \chi_{16,0}, \varphi_{16,0}$
	33	0	$513_8 = \chi_{16,1}, \varphi_{16,1}$
	$34 = \overline{33}$	0	$513_9 = \chi_{16,2}, \varphi_{16,2}$
	35	0	$513_{10} = \chi_{17,0}, \varphi_{17,0}$
	36	0	$513_{11} = \chi_{17,1}, \varphi_{17,1}$
	37	0	$513_{12} = \chi_{17,2}, \varphi_{17,2}$
	$38 = \overline{35}$	0	$513_{13} = \chi_{18,0}, \varphi_{18,0}$
	$39 = \overline{37}$	0	$513_{14} = \chi_{18,1}, \varphi_{18,1}$
	$40 = \overline{36}$	0	$513_{15} = \chi_{18,2}, \varphi_{18,2}$

	blocks	defect	matrix
	41	0	$513_{16} = \chi_{19,0}, \varphi_{19,0}$
	42	0	$513_{17} = \chi_{19,1}, \varphi_{19,1}$
	43	0	$513_{18} = \chi_{19,2}, \varphi_{19,2}$
	$44 = \overline{41}$	0	$513_{19} = \chi_{20,0}, \varphi_{20,0}$
	$45 = \overline{43}$	0	$513_{20} = \chi_{20,1}, \varphi_{20,1}$
	$46 = \overline{42}$	0	$513_{21} = \chi_{20,2}, \varphi_{20,2}$
	47	0	$513_{22} = \chi_{21,0}, \varphi_{21,0}$
	48	0	$513_{23} = \chi_{21,1}, \varphi_{21,1}$
	49	0	$513_{24} = \chi_{21,2}, \varphi_{21,2}$
	$50 = \overline{47}$	0	$513_{25} = \chi_{22,0}, \varphi_{22,0}$
	$51 = \overline{49}$	0	$513_{26} = \chi_{22,1}, \varphi_{22,1}$
	$52 = \overline{48}$	0	$513_{27} = \chi_{22,2}, \varphi_{22,2}$
$3.G :$	53	0	$57_7 = \chi_{29,0}, \varphi_{23,0}$
	54	0	$57_8 = \chi_{29,1}, \varphi_{23,1}$
	55	0	$57_9 = \chi_{29,2}, \varphi_{23,2}$
	$56 = 53^*$		
	$57 = 55^*$		
	$58 = 54^*$		
	59	0	$57_{13} = \chi_{30,0}, \varphi_{24,0}$
	60	0	$57_{14} = \chi_{30,1}, \varphi_{24,1}$
	61	0	$57_{15} = \chi_{30,2}, \varphi_{24,2}$
	$62 = 59^*$		
	$63 = 61^*$		
	$64 = 60^*$		
	65	0	$57_{19} = \chi_{31,0}, \varphi_{25,0}$
	66	0	$57_{20} = \chi_{31,1}, \varphi_{25,1}$
	67	0	$57_{21} = \chi_{31,2}, \varphi_{25,2}$
	$68 = 65^*$		
	$69 = 67^*$		
	$70 = 66^*$		
	71	1	19×1
	$72 = 71^*$		
	73	0	$399_{11} = \chi_{35,0}, \varphi_{29,0}$
	74	0	$399_{12} = \chi_{35,1}, \varphi_{29,1}$
	75	0	$399_{13} = \chi_{35,2}, \varphi_{29,2}$
	$76 = 73^*$		
	$77 = 75^*$		
	$78 = 74^*$		
	79	0	$399_{17} = \chi_{36,0}, \varphi_{30,0}$
	80	0	$399_{18} = \chi_{36,1}, \varphi_{30,1}$

	blocks	defect	matrix
	81	0	$399_{19} = \chi_{36,2}, \varphi_{30,2}$
	82 = 79*		
	83 = 81*		
	84 = 80*		
	85	0	$399_{23} = \chi_{37,0}, \varphi_{31,0}$
	86	0	$399_{24} = \chi_{37,1}, \varphi_{31,1}$
	87	0	$399_{25} = \chi_{37,2}, \varphi_{31,2}$
	88 = 85*		
	89 = 87*		
	90 = 86*		
	91	0	$456_7 = \chi_{38,0}, \varphi_{32,0}$
	92	0	$456_8 = \chi_{38,1}, \varphi_{32,1}$
	93	0	$456_9 = \chi_{38,2}, \varphi_{32,2}$
	94 = 91*		
	95 = 93*		
	96 = 92*		
	97	0	$456_{13} = \chi_{39,0}, \varphi_{33,0}$
	98	0	$456_{14} = \chi_{39,1}, \varphi_{33,1}$
	99	0	$456_{15} = \chi_{39,2}, \varphi_{33,2}$
	100 = 97*		
	101 = 99*		
	102 = 98*		
	103	0	$456_{19} = \chi_{40,0}, \varphi_{34,0}$
	104	0	$456_{20} = \chi_{40,1}, \varphi_{34,1}$
	105	0	$456_{21} = \chi_{40,2}, \varphi_{34,2}$
	106 = 103*		
	107 = 105*		
	108 = 104*		
	109	0	$513_{28} = \chi_{41,0}, \varphi_{35,0}$
	110	0	$513_{29} = \chi_{41,1}, \varphi_{35,1}$
	111	0	$513_{30} = \chi_{41,2}, \varphi_{35,2}$
	112 = 109*		
	113 = 111*		
	114 = 110*		
	115	0	$513_{34} = \chi_{42,0}, \varphi_{36,0}$
	116	0	$513_{35} = \chi_{42,1}, \varphi_{36,1}$
	117	0	$513_{36} = \chi_{42,2}, \varphi_{36,2}$
	118 = 115*		
	119 = 117*		
	120 = 116*		

	blocks	defect	matrix
	121	0	$513_{40} = \chi_{43,0}, \varphi_{37,0}$
	122	0	$513_{41} = \chi_{43,1}, \varphi_{37,1}$
	123	0	$513_{42} = \chi_{43,2}, \varphi_{37,2}$
	124 = 121*		
	125 = 123*		
	126 = 122*		
	127	0	$513_{46} = \chi_{44,0}, \varphi_{38,0}$
	128	0	$513_{47} = \chi_{44,1}, \varphi_{38,1}$
	129	0	$513_{48} = \chi_{44,2}, \varphi_{38,2}$
	130 = 127*		
	131 = 129*		
	132 = 128*		
	133	0	$513_{52} = \chi_{45,0}, \varphi_{39,0}$
	134	0	$513_{53} = \chi_{45,1}, \varphi_{39,1}$
	135	0	$513_{54} = \chi_{45,2}, \varphi_{39,2}$
	136 = 133*		
	137 = 135*		
	138 = 134*		
	139	0	$513_{58} = \chi_{46,0}, \varphi_{40,0}$
	140	0	$513_{59} = \chi_{46,1}, \varphi_{40,1}$
	141	0	$513_{60} = \chi_{46,2}, \varphi_{40,2}$
	142 = 139*		
	143 = 141*		
	144 = 140*		
	145	0	$513_{64} = \chi_{47,0}, \varphi_{41,0}$
	146	0	$513_{65} = \chi_{47,1}, \varphi_{41,1}$
	147	0	$513_{66} = \chi_{47,2}, \varphi_{41,2}$
	148 = 145*		
	149 = 147*		
	150 = 146*		
	151	0	$513_{70} = \chi_{48,0}, \varphi_{42,0}$
	152	0	$513_{71} = \chi_{48,1}, \varphi_{42,1}$
	153	0	$513_{72} = \chi_{48,2}, \varphi_{42,2}$
	154 = 151*		
	155 = 153*		
	156 = 152*		
	157	0	$513_{76} = \chi_{49,0}, \varphi_{43,0}$
	158	0	$513_{77} = \chi_{49,1}, \varphi_{43,1}$
	159	0	$513_{78} = \chi_{49,2}, \varphi_{43,2}$
	160 = 157*		

	blocks	defect	matrix
	161 = 159*		
	162 = 158*		

Block 1:	$\varphi_{1,0}$	$\varphi_{2,0}$	$\varphi_{13,0}$	
$1_1 = \chi_{1,0}$	1	.	.	
$56_1 = \chi_{2,0}$	.	1	.	
$512_1 = \chi_{13,0}$	1	.	1	$\varphi_{1,0} = 1_1$
$567_1 = \chi_{23,0}$	.	1	1	$\varphi_{2,0} = 56_1$
$567_4 = \chi_{24,0}$	.	1	1	$\varphi_{13,0} = 511_1$
$567_7 = \chi_{25,0}$	.	1	1	
$567_{10} = \chi_{26,0}$	.	1	1	
$567_{13} = \chi_{27,0}$	.	1	1	
$567_{16} = \chi_{28,0}$	.	1	1	

Block 2:	$\varphi_{1,1}$	$\varphi_{2,1}$	$\varphi_{13,1}$	
$1_2 = \chi_{1,1}$	1	.	.	
$56_2 = \chi_{2,1}$	.	1	.	
$512_2 = \chi_{13,1}$	1	.	1	$\varphi_{1,1} = 1_2$
$567_2 = \chi_{23,1}$	.	1	1	$\varphi_{2,1} = 56_2$
$567_5 = \chi_{24,1}$	.	1	1	$\varphi_{13,1} = 511_2$
$567_8 = \chi_{25,1}$	.	1	1	
$567_{11} = \chi_{26,1}$	.	1	1	
$567_{14} = \chi_{27,1}$	.	1	1	
$567_{17} = \chi_{28,1}$	.	1	1	

Block 3:	$\varphi_{1,2}$	$\varphi_{2,2}$	$\varphi_{13,2}$	
$1_3 = \chi_{1,2}$	1	.	.	
$56_3 = \chi_{2,2}$	.	1	.	
$512_3 = \chi_{13,2}$	1	.	1	$\varphi_{1,2} = 1_3$
$567_3 = \chi_{23,2}$	.	1	1	$\varphi_{2,2} = 56_3$
$567_6 = \chi_{24,2}$	.	1	1	$\varphi_{13,2} = 511_3$
$567_9 = \chi_{25,2}$	.	1	1	
$567_{12} = \chi_{26,2}$	.	1	1	
$567_{15} = \chi_{27,2}$	.	1	1	
$567_{18} = \chi_{28,2}$	.	1	1	

Blocks 71, 72:	φ_{26+}
$567_{19} = \chi_{32+}$	1
$567_{21} = \chi_{50,0}$	1
$567_{22} = \chi_{50,1}$	1
$567_{23} = \chi_{50,2}$	1
$567_{27} = \chi_{51,0}$	1
$567_{28} = \chi_{51,1}$	1
$567_{29} = \chi_{51,2}$	1
$567_{33} = \chi_{52,0}$	1
$567_{34} = \chi_{52,1}$	1
$567_{35} = \chi_{52,2}$	1
$567_{39} = \chi_{53,0}$	1
$567_{40} = \chi_{53,1}$	1
$567_{41} = \chi_{53,2}$	1
$567_{45} = \chi_{54,0}$	1
$567_{46} = \chi_{54,1}$	1
$567_{47} = \chi_{54,2}$	1
$567_{51} = \chi_{55,0}$	1
$567_{52} = \chi_{55,1}$	1
$567_{53} = \chi_{55,2}$	1

$$\varphi_{26+} = 567_1$$