

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

	blocks	defect	matrix
$3.G :$	1	6	87×3
	2	3	27×1
	3	3	27×1
	4	3	27×1
	5	2	9×1

	blocks	defect	matrix
	$6 = \bar{5}$	2	9×1
	7	2	9×1
	$8 = \bar{7}$	2	9×1
	9	2	9×1
	$10 = \bar{9}$	2	9×1

Block 1:	$\varphi_{1,0}$	$\varphi_{2,0}$	φ_{3+}
$1_1 = \chi_{1,0}$	1	.	.
$1_2 = \chi_{1,1}$	1	.	.
$1_3 = \chi_{1,2}$	1	.	.
$56_1 = \chi_{2,0}$	.	1	.
$56_2 = \chi_{2,1}$	.	1	.
$56_3 = \chi_{2,2}$	.	1	.
$57_1 = \chi_{3,0}$	1	1	.
$57_2 = \chi_{3,1}$	1	1	.
$57_3 = \chi_{3,2}$	1	1	.
$57_4 = \chi_{4,0}$	1	1	.
$57_5 = \chi_{4,1}$	1	1	.
$57_6 = \chi_{4,2}$	1	1	.
$399_1 = \chi_{5+}$	.	.	1
$399_2 = \chi_{8,0}$	.	.	1
$399_3 = \chi_{8,1}$	.	.	1
$399_4 = \chi_{8,2}$	.	.	1
$399_5 = \chi_{9,0}$	.	.	1
$399_6 = \chi_{9,1}$	.	.	1
$399_7 = \chi_{9,2}$	.	.	1
$399_8 = \chi_{10,0}$	.	.	1
$399_9 = \chi_{10,1}$	.	.	1
$399_{10} = \chi_{10,2}$	.	.	1
$456_1 = \chi_{11,0}$	1	1	1
$456_2 = \chi_{11,1}$	1	1	1
$456_3 = \chi_{11,2}$	1	1	1
$456_4 = \chi_{12,0}$	1	1	1
$456_5 = \chi_{12,1}$	1	1	1
$456_6 = \chi_{12,2}$	1	1	1
$512_1 = \chi_{13,0}$	1	2	1
$512_2 = \chi_{13,1}$	1	2	1
$512_3 = \chi_{13,2}$	1	2	1
$57_7 = \chi_{29,0}$	1	1	.
$57_8 = \chi_{29,1}$	1	1	.
$57_9 = \chi_{29,2}$	1	1	.
$57_{10} = \chi_{29,0}^*$	1	1	.
$57_{11} = \chi_{29,1}^*$	1	1	.
$57_{12} = \chi_{29,2}^*$	1	1	.
$57_{13} = \chi_{30,0}$	1	1	.
$57_{14} = \chi_{30,1}$	1	1	.
$57_{15} = \chi_{30,2}$	1	1	.

(Block 1:)	$\varphi_{1,0}$	$\varphi_{2,0}$	φ_{3+}
$57_{16} = \chi_{30,0}^{*8}$	1	1	.
$57_{17} = \chi_{30,1}^{*8}$	1	1	.
$57_{18} = \chi_{30,2}^{*8}$	1	1	.
$57_{19} = \chi_{31,0}$	1	1	.
$57_{20} = \chi_{31,1}$	1	1	.
$57_{21} = \chi_{31,2}$	1	1	.
$57_{22} = \chi_{31,0}^{*8}$	1	1	.
$57_{23} = \chi_{31,1}^{*8}$	1	1	.
$57_{24} = \chi_{31,2}^{*8}$	1	1	.
$567_{19} = \chi_{32+}$	.	3	1
$567_{20} = \chi_{32*2+}$	.	3	1
$399_{11} = \chi_{35,0}$	.	.	1
$399_{12} = \chi_{35,1}$	.	.	1
$399_{13} = \chi_{35,2}$	.	.	1
$399_{14} = \chi_{35,0}^{*8}$	.	.	1
$399_{15} = \chi_{35,1}^{*8}$	.	.	1
$399_{16} = \chi_{35,2}^{*8}$	.	.	1
$399_{17} = \chi_{36,0}$	.	.	1
$399_{18} = \chi_{36,1}$	.	.	1
$399_{19} = \chi_{36,2}$	.	.	1
$399_{20} = \chi_{36,0}^{*8}$	.	.	1
$399_{21} = \chi_{36,1}^{*8}$	.	.	1
$399_{22} = \chi_{36,2}^{*8}$	.	.	1
$399_{23} = \chi_{37,0}$	.	.	1
$399_{24} = \chi_{37,1}$	.	.	1
$399_{25} = \chi_{37,2}$	.	.	1
$399_{26} = \chi_{37,0}^{*8}$	.	.	1
$399_{27} = \chi_{37,1}^{*8}$	.	.	1
$399_{28} = \chi_{37,2}^{*8}$	.	.	1
$456_7 = \chi_{38,0}$	1	1	1
$456_8 = \chi_{38,1}$	1	1	1
$456_9 = \chi_{38,2}$	1	1	1
$456_{10} = \chi_{38,0}^{*8}$	1	1	1
$456_{11} = \chi_{38,1}^{*8}$	1	1	1
$456_{12} = \chi_{38,2}^{*8}$	1	1	1
$456_{13} = \chi_{39,0}$	1	1	1
$456_{14} = \chi_{39,1}$	1	1	1
$456_{15} = \chi_{39,2}$	1	1	1
$456_{16} = \chi_{39,0}^{*8}$	1	1	1
$456_{17} = \chi_{39,1}^{*8}$	1	1	1

(Block 1:)	$\varphi_{1,0}$	$\varphi_{2,0}$	φ_{3+}
$456_{18} = \chi_{39,2}^{*8}$	1	1	1
$456_{19} = \chi_{40,0}$	1	1	1
$456_{20} = \chi_{40,1}$	1	1	1
$456_{21} = \chi_{40,2}$	1	1	1
$456_{22} = \chi_{40,0}^{*8}$	1	1	1
$456_{23} = \chi_{40,1}^{*8}$	1	1	1
$456_{24} = \chi_{40,2}^{*8}$	1	1	1

$$\begin{aligned} \varphi_{1,0} &= 1_1 \\ \varphi_{2,0} &= 56_1 \\ \varphi_{3+} &= 399_1 \end{aligned}$$

Block 2:	$\varphi_{6,0}$
$513_1 = \chi_{14,0}$	1
$513_2 = \chi_{14,1}$	1
$513_3 = \chi_{14,2}$	1
$513_{10} = \chi_{17,0}$	1
$513_{11} = \chi_{17,1}$	1
$513_{12} = \chi_{17,2}$	1
$513_{13} = \chi_{18,0}$	1
$513_{14} = \chi_{18,1}$	1
$513_{15} = \chi_{18,2}$	1
$513_{28} = \chi_{41,0}$	1
$513_{29} = \chi_{41,1}$	1
$513_{30} = \chi_{41,2}$	1
$513_{31} = \chi_{41,0}^{*8}$	1
$513_{32} = \chi_{41,1}^{*8}$	1
$513_{33} = \chi_{41,2}^{*8}$	1
$513_{58} = \chi_{46,0}$	1
$513_{59} = \chi_{46,1}$	1
$513_{60} = \chi_{46,2}$	1
$513_{61} = \chi_{46,0}^{*8}$	1
$513_{62} = \chi_{46,1}^{*8}$	1
$513_{63} = \chi_{46,2}^{*8}$	1
$513_{70} = \chi_{48,0}$	1
$513_{71} = \chi_{48,1}$	1
$513_{72} = \chi_{48,2}$	1
$513_{73} = \chi_{48,0}^{*8}$	1
$513_{74} = \chi_{48,1}^{*8}$	1
$513_{75} = \chi_{48,2}^{*8}$	1

$$\varphi_{6,0} = 513_1$$

Block 3:	$\varphi_{7,0}$
$513_4 = \chi_{15,0}$	1
$513_5 = \chi_{15,1}$	1
$513_6 = \chi_{15,2}$	1
$513_{16} = \chi_{19,0}$	1
$513_{17} = \chi_{19,1}$	1
$513_{18} = \chi_{19,2}$	1
$513_{19} = \chi_{20,0}$	1
$513_{20} = \chi_{20,1}$	1
$513_{21} = \chi_{20,2}$	1
$513_{34} = \chi_{42,0}$	1
$513_{35} = \chi_{42,1}$	1
$513_{36} = \chi_{42,2}$	1
$513_{37} = \chi_{42,0}^{*8}$	1
$513_{38} = \chi_{42,1}^{*8}$	1
$513_{39} = \chi_{42,2}^{*8}$	1
$513_{46} = \chi_{44,0}$	1
$513_{47} = \chi_{44,1}$	1
$513_{48} = \chi_{44,2}$	1
$513_{49} = \chi_{44,0}^{*8}$	1
$513_{50} = \chi_{44,1}^{*8}$	1
$513_{51} = \chi_{44,2}^{*8}$	1
$513_{76} = \chi_{49,0}$	1
$513_{77} = \chi_{49,1}$	1
$513_{78} = \chi_{49,2}$	1
$513_{79} = \chi_{49,0}^{*8}$	1
$513_{80} = \chi_{49,1}^{*8}$	1
$513_{81} = \chi_{49,2}^{*8}$	1

$$\varphi_{7,0} = 513_2$$

Block 4:	$\varphi_{8,0}$
$513_7 = \chi_{16,0}$	1
$513_8 = \chi_{16,1}$	1
$513_9 = \chi_{16,2}$	1
$513_{22} = \chi_{21,0}$	1
$513_{23} = \chi_{21,1}$	1
$513_{24} = \chi_{21,2}$	1
$513_{25} = \chi_{22,0}$	1
$513_{26} = \chi_{22,1}$	1
$513_{27} = \chi_{22,2}$	1
$513_{40} = \chi_{43,0}$	1
$513_{41} = \chi_{43,1}$	1
$513_{42} = \chi_{43,2}$	1
$513_{43} = \chi_{43,0}^{*8}$	1
$513_{44} = \chi_{43,1}^{*8}$	1
$513_{45} = \chi_{43,2}^{*8}$	1
$513_{52} = \chi_{45,0}$	1
$513_{53} = \chi_{45,1}$	1
$513_{54} = \chi_{45,2}$	1
$513_{55} = \chi_{45,0}^{*8}$	1
$513_{56} = \chi_{45,1}^{*8}$	1
$513_{57} = \chi_{45,2}^{*8}$	1
$513_{64} = \chi_{47,0}$	1
$513_{65} = \chi_{47,1}$	1
$513_{66} = \chi_{47,2}$	1
$513_{67} = \chi_{47,0}^{*8}$	1
$513_{68} = \chi_{47,1}^{*8}$	1
$513_{69} = \chi_{47,2}^{*8}$	1

$$\varphi_{8,0} = 513_3$$

Block 5:	$\varphi_{9,0}$
$567_1 = \chi_{23,0}$	1
$567_2 = \chi_{23,1}$	1
$567_3 = \chi_{23,2}$	1
$567_{21} = \chi_{50,0}$	1
$567_{22} = \chi_{50,1}$	1
$567_{23} = \chi_{50,2}$	1
$567_{24} = \chi_{50,0}^{*20}$	1
$567_{25} = \chi_{50,1}^{*20}$	1
$567_{26} = \chi_{50,2}^{*20}$	1

$$\varphi_{9,0} = 567_1$$

Block 6:	$\varphi_{10,0}$
$567_4 = \chi_{24,0}$	1
$567_5 = \chi_{24,1}$	1
$567_6 = \chi_{24,2}$	1
$567_{27} = \chi_{51,0}$	1
$567_{28} = \chi_{51,1}$	1
$567_{29} = \chi_{51,2}$	1
$567_{30} = \chi_{51,0}^{*20}$	1
$567_{31} = \chi_{51,1}^{*20}$	1
$567_{32} = \chi_{51,2}^{*20}$	1

$$\varphi_{10,0} = 567_2$$

Block 7:	$\varphi_{11,0}$
$567_7 = \chi_{25,0}$	1
$567_8 = \chi_{25,1}$	1
$567_9 = \chi_{25,2}$	1
$567_{33} = \chi_{52,0}$	1
$567_{34} = \chi_{52,1}$	1
$567_{35} = \chi_{52,2}$	1
$567_{36} = \chi_{52,0}^{*20}$	1
$567_{37} = \chi_{52,1}^{*20}$	1
$567_{38} = \chi_{52,2}^{*20}$	1

$$\varphi_{11,0} = 567_3$$

Block 8:	$\varphi_{12,0}$
$567_{10} = \chi_{26,0}$	1
$567_{11} = \chi_{26,1}$	1
$567_{12} = \chi_{26,2}$	1
$567_{39} = \chi_{53,0}$	1
$567_{40} = \chi_{53,1}$	1
$567_{41} = \chi_{53,2}$	1
$567_{42} = \chi_{53,0}^{*20}$	1
$567_{43} = \chi_{53,1}^{*20}$	1
$567_{44} = \chi_{53,2}^{*20}$	1

$$\varphi_{12,0} = 567_4$$

Block 9:	$\varphi_{13,0}$
$567_{13} = \chi_{27,0}$	1
$567_{14} = \chi_{27,1}$	1
$567_{15} = \chi_{27,2}$	1
$567_{45} = \chi_{54,0}$	1
$567_{46} = \chi_{54,1}$	1
$567_{47} = \chi_{54,2}$	1
$567_{48} = \chi_{54,0}^{*20}$	1
$567_{49} = \chi_{54,1}^{*20}$	1
$567_{50} = \chi_{54,2}^{*20}$	1

$$\varphi_{13,0} = 567_5$$

Block 10:	$\varphi_{14,0}$
$567_{16} = \chi_{28,0}$	1
$567_{17} = \chi_{28,1}$	1
$567_{18} = \chi_{28,2}$	1
$567_{51} = \chi_{55,0}$	1
$567_{52} = \chi_{55,1}$	1
$567_{53} = \chi_{55,2}$	1
$567_{54} = \chi_{55,0}^{*20}$	1
$567_{55} = \chi_{55,1}^{*20}$	1
$567_{56} = \chi_{55,2}^{*20}$	1

$$\varphi_{14,0} = 567_6$$