

$U_3(5).3 \pmod{5}$

	blocks	defect	matrix
$G:$	1	3	31×24
	2	0	$125_1 = \chi_{9,0}, \varphi_{9,0}$
	3	0	$125_2 = \chi_{9,1}, \varphi_{9,1}$
	$4 = \bar{3}$	0	$125_3 = \chi_{9,2}, \varphi_{9,2}$
$3.G:$	5 $6 = 5*$	3	31×24

Block 1:	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{1,2}$	$\varphi_{2,0}$	$\varphi_{2,1}$	$\varphi_{2,2}$	$\varphi_{3,0}$	$\varphi_{3,1}$	$\varphi_{3,2}$	$\varphi_{4,0}$	$\varphi_{4,1}$	$\varphi_{4,2}$	$\varphi_{5,0}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	.	1	.	.	.	.	.	.	.	.	.	.	.
$1_3 = \chi_{1,2}$	.	.	1	.	.	.	.	.	.	.	.	.	.
$20_1 = \chi_{2,0}$	.	.	.	.	.	.	1	.	.	1	.	.	.
$20_2 = \chi_{2,1}$	.	.	.	.	.	.	.	1	.	.	1	.	.
$20_3 = \chi_{2,2}$	.	.	.	.	.	.	.	.	1	.	.	1	.
$21_1 = \chi_{3,0}$	.	1	1	.	.	.	.	.	.	.	.	.	1
$21_2 = \chi_{3,1}$	1	.	1	.	.	.	.	.	.	.	.	.	.
$21_3 = \chi_{3,2}$	1	1	.	.	.	.	.	.	.	.	.	.	.
$84_1 = \chi_{4+}$	1	1	1	1	1	1	.	.	.	.	.	.	1
$84_2 = \chi_{7,0}$	1	.	.	.	.	.	1	.	.	1	.	.	.
$84_3 = \chi_{7,1}$	.	1	.	.	.	.	.	1	.	.	1	.	.
$84_4 = \chi_{7,2}$	.	.	1	.	.	.	.	.	1	.	.	1	.
$105_1 = \chi_{8,0}$	.	.	.	2	.	.	.	.	.	.	.	.	1
$105_2 = \chi_{8,1}$	.	.	.	.	2	.	.	.	.	.	.	.	.
$105_3 = \chi_{8,2}$	.	.	.	.	.	2	.	.	.	.	.	.	.
$126_1 = \chi_{10,0}$	1	.	.	1	1	1	.	.	.	.	.	.	.
$126_2 = \chi_{10,1}$	.	1	.	1	1	1	.	.	.	.	.	.	1
$126_3 = \chi_{10,2}$	.	.	1	1	1	1	.	.	.	.	.	.	1
$126_4 = \chi_{11,0}$	.	.	.	1	.	.	.	.	1	.	.	1	.
$126_5 = \chi_{11,1}$	.	.	.	.	1	.	1	.	.	1	.	.	.
$126_6 = \chi_{11,2}$	.	.	.	.	.	1	.	1	.	.	1	.	.
$126_7 = \chi_{12,0}$	.	.	.	1	.	.	.	1	.	.	1	.	.
$126_8 = \chi_{12,1}$	.	.	.	.	1	.	.	.	1	.	.	1	.
$126_9 = \chi_{12,2}$	.	.	.	.	.	1	1	.	.	1	.	.	.
$144_1 = \chi_{13,0}$	.	.	1	1	1	.	.	.	.	.	.	1	.
$144_2 = \chi_{13,1}$	1	.	.	.	1	1	.	.	.	1	.	.	.
$144_3 = \chi_{13,2}$	.	1	.	1	.	1	.	.	.	.	1	.	1
$144_4 = \chi_{14,0}$	.	1	.	1	.	1	.	1	.	.	.	.	.
$144_5 = \chi_{14,1}$	.	.	1	1	1	.	.	.	1	.	.	.	1
$144_6 = \chi_{14,2}$	1	.	.	.	1	1	1	.	.	.	.	.	.

(Block 1:)	$\varphi_{5,1}$	$\varphi_{5,2}$	$\varphi_{6,0}$	$\varphi_{6,1}$	$\varphi_{6,2}$	$\varphi_{7,0}$	$\varphi_{7,1}$	$\varphi_{7,2}$	$\varphi_{8,0}$	$\varphi_{8,1}$	$\varphi_{8,2}$
$1_1 = \chi_{1,0}$	.	.	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	.	.	.	.	.	.	.	.	.	.	.
$1_3 = \chi_{1,2}$	.	.	.	.	.	.	.	.	.	.	.
$20_1 = \chi_{2,0}$	.	.	.	.	.	.	.	.	.	.	.
$20_2 = \chi_{2,1}$	.	.	.	.	.	.	.	.	.	.	.
$20_3 = \chi_{2,2}$	.	.	.	.	.	.	.	.	.	.	.
$21_1 = \chi_{3,0}$	.	.	.	.	.	.	.	.	.	.	.
$21_2 = \chi_{3,1}$	1	.	.	.	.	.	.	.	.	.	.
$21_3 = \chi_{3,2}$	.	1	.	.	.	.	.	.	.	.	.
$84_1 = \chi_{4+}$	1	1	.	.	.	.	.	.	.	.	.
$84_2 = \chi_{7,0}$	.	.	.	.	.	.	.	.	1	.	.
$84_3 = \chi_{7,1}$	.	.	.	.	.	.	.	.	.	1	.
$84_4 = \chi_{7,2}$	.	.	.	.	.	.	.	.	.	.	1
$105_1 = \chi_{8,0}$	.	.	.	.	1	.	1	.	.	.	.
$105_2 = \chi_{8,1}$	1	.	1	.	.	.	.	1	.	.	.
$105_3 = \chi_{8,2}$	.	1	.	1	.	1	.	.	.	.	.
$126_1 = \chi_{10,0}$	1	1	.	.	.	.	.	.	1	.	.
$126_2 = \chi_{10,1}$	.	1	.	.	.	.	.	.	.	1	.
$126_3 = \chi_{10,2}$	1	.	.	.	.	.	.	.	.	.	1
$126_4 = \chi_{11,0}$	.	.	.	.	1	.	.	.	.	.	1
$126_5 = \chi_{11,1}$	.	.	1	.	.	.	.	.	1	.	.
$126_6 = \chi_{11,2}$	.	.	.	1	.	.	.	.	.	1	.
$126_7 = \chi_{12,0}$	.	.	.	.	.	.	1	.	.	1	.
$126_8 = \chi_{12,1}$	.	.	.	.	.	.	.	1	.	.	1
$126_9 = \chi_{12,2}$	.	.	.	.	.	1	.	.	1	.	.
$144_1 = \chi_{13,0}$	1	.	.	.	.	.	.	1	.	.	1
$144_2 = \chi_{13,1}$	.	1	.	.	.	1	.	.	1	.	.
$144_3 = \chi_{13,2}$	.	.	.	.	.	.	1	.	.	1	.
$144_4 = \chi_{14,0}$	.	1	.	1	.	.	.	.	.	1	.
$144_5 = \chi_{14,1}$	.	.	.	.	1	.	.	.	.	.	1
$144_6 = \chi_{14,2}$	1	.	1	.	.	.	.	.	1	.	.

$$\begin{array}{ll}
\varphi_{1,0} = 1_1 & \varphi_{5,0} = 19_1 \\
\varphi_{1,1} = 1_2 & \varphi_{5,1} = 19_2 \\
\varphi_{1,2} = 1_3 & \varphi_{5,2} = 19_3 \\
\varphi_{2,0} = 8_1 & \varphi_{6,0} = 35_1 \\
\varphi_{2,1} = 8_2 & \varphi_{6,1} = 35_2 \\
\varphi_{2,2} = 8_3 & \varphi_{6,2} = 35_3 \\
\varphi_{3,0} = 10_1 & \varphi_{7,0} = 35_4 \\
\varphi_{3,1} = 10_2 & \varphi_{7,1} = 35_5 \\
\varphi_{3,2} = 10_3 & \varphi_{7,2} = 35_6 \\
\varphi_{4,0} = 10_4 & \varphi_{8,0} = 63_1 \\
\varphi_{4,1} = 10_5 & \varphi_{8,1} = 63_2 \\
\varphi_{4,2} = 10_6 & \varphi_{8,2} = 63_3
\end{array}$$

Blocks 5, 6:	$\varphi_{10,0}$	$\varphi_{10,1}$	$\varphi_{10,2}$	$\varphi_{11,0}$	$\varphi_{11,1}$	$\varphi_{11,2}$	$\varphi_{12,0}$	$\varphi_{12,1}$	$\varphi_{12,2}$	$\varphi_{13,0}$	$\varphi_{13,1}$
$21_4 = \chi_{15,0}$	1	.	.	.	.	.	.	.	.	.	.
$21_5 = \chi_{15,1}$	.	1	.	.	.	.	.	.	.	.	.
$21_6 = \chi_{15,2}$	.	.	1	.	.	.	.	.	.	.	.
$21_{10} = \chi_{16,0}$	.	.	.	1	.	.	.	.	.	1	.
$21_{11} = \chi_{16,1}$	.	.	.	.	1	.	.	.	.	.	1
$21_{12} = \chi_{16,2}$	.	.	.	.	.	1	.	.	.	.	.
$144_7 = \chi_{17+}$	1	1	1	1	1	1	.	.	.	.	.
$84_5 = \chi_{20,0}$	1	.	1	.	1	.	.	1	.	.	.
$84_6 = \chi_{20,1}$	1	1	.	.	.	1	.	.	1	.	.
$84_7 = \chi_{20,2}$	.	1	1	1	.	.	1	.	.	.	.
$105_4 = \chi_{21,0}$	.	.	.	.	.	2	.	.	.	.	.
$105_5 = \chi_{21,1}$	.	.	.	2	.	.	.	.	.	1	.
$105_6 = \chi_{21,2}$	.	.	.	.	2	.	.	.	.	.	1
$105_{10} = \chi_{22,0}$	.	.	.	.	.	.	.	.	.	1	.
$105_{11} = \chi_{22,1}$	.	.	.	.	.	.	.	.	.	.	1
$105_{12} = \chi_{22,2}$	.	.	.	.	.	.	.	.	.	.	.
$126_{10} = \chi_{23,0}$	.	.	.	1	.	1	.	.	1	.	.
$126_{11} = \chi_{23,1}$	.	.	.	1	1	.	1	.	.	.	.
$126_{12} = \chi_{23,2}$	.	.	.	.	1	1	.	1	.	.	.
$126_{16} = \chi_{24,0}$	1	.	.	.	.	.	.	1	.	.	.
$126_{17} = \chi_{24,1}$	.	1	.	.	.	.	.	.	1	.	.
$126_{18} = \chi_{24,2}$	.	.	1	.	.	.	1	.	.	.	.
$126_{22} = \chi_{25,0}$	1	1	1	.	.	1	.	.	1	.	.
$126_{23} = \chi_{25,1}$	1	1	1	1	.	.	1	.	.	.	.
$126_{24} = \chi_{25,2}$	1	1	1	.	1	.	.	1	.	.	.
$144_9 = \chi_{26,0}$	.	.	.	.	1	.	.	1	.	.	1
$144_{10} = \chi_{26,1}$	.	.	.	.	.	1	.	.	1	.	.
$144_{11} = \chi_{26,2}$	.	.	.	1	.	.	1	.	.	1	.
$144_{15} = \chi_{27,0}$	1	1	.	.	.	1	.	1	.	.	.
$144_{16} = \chi_{27,1}$	.	1	1	1	.	.	.	.	1	.	.
$144_{17} = \chi_{27,2}$	1	.	1	.	1	.	1	.	.	.	.

(Blocks 5, 6:)	$\varphi_{13,2}$	$\varphi_{14,0}$	$\varphi_{14,1}$	$\varphi_{14,2}$	$\varphi_{15,0}$	$\varphi_{15,1}$	$\varphi_{15,2}$	$\varphi_{16,0}$	$\varphi_{16,1}$	$\varphi_{16,2}$	$\varphi_{17,0}$
$21_4 = \chi_{15,0}$	.	1	.	.	.	.	.	.	.	.	.
$21_5 = \chi_{15,1}$	.	.	1	.	.	.	.	.	.	.	.
$21_6 = \chi_{15,2}$	.	.	.	1	.	.	.	.	.	.	.
$21_{10} = \chi_{16,0}$	.	.	.	.	.	.	.	.	.	.	.
$21_{11} = \chi_{16,1}$	.	.	.	.	.	.	.	.	.	.	.
$21_{12} = \chi_{16,2}$	1	.	.	.	.	.	.	.	.	.	.
$144_7 = \chi_{17+}$	.	.	.	.	1	1	1	.	.	.	.
$84_5 = \chi_{20,0}$	.	.	.	1	.	1	.	.	.	.	.
$84_6 = \chi_{20,1}$	.	1	.	.	.	.	1	.	.	.	.
$84_7 = \chi_{20,2}$	.	.	1	.	1	.	.	.	.	.	.
$105_4 = \chi_{21,0}$	1	1	.	.	.	.	.	.	1	.	.
$105_5 = \chi_{21,1}$	.	.	1	.	.	.	.	.	.	1	.
$105_6 = \chi_{21,2}$	.	.	.	1	.	.	.	1	.	.	.
$105_{10} = \chi_{22,0}$	.	.	.	.	.	.	.	.	.	.	1
$105_{11} = \chi_{22,1}$	.	.	.	.	.	.	.	.	.	.	.
$105_{12} = \chi_{22,2}$	1	.	.	.	.	.	.	.	.	.	.
$126_{10} = \chi_{23,0}$	.	.	.	.	.	.	1	.	.	1	.
$126_{11} = \chi_{23,1}$	.	.	.	.	1	.	.	1	.	.	.
$126_{12} = \chi_{23,2}$	.	.	.	.	.	1	.	.	1	.	.
$126_{16} = \chi_{24,0}$	.	.	.	1	.	.	.	.	.	.	.
$126_{17} = \chi_{24,1}$	.	1	.	.	.	.	.	.	.	.	.
$126_{18} = \chi_{24,2}$	.	.	1	.	.	.	.	.	.	.	1
$126_{22} = \chi_{25,0}$	.	1	.	.	.	1	1	.	.	.	.
$126_{23} = \chi_{25,1}$	.	.	1	.	1	.	1	.	.	.	.
$126_{24} = \chi_{25,2}$	.	.	.	1	1	1	.	.	.	.	.
$144_9 = \chi_{26,0}$	.	.	.	1	.	.	.	.	.	.	.
$144_{10} = \chi_{26,1}$	1	1	.	.	.	.	.	.	.	.	.
$144_{11} = \chi_{26,2}$	.	.	1	.	.	.	.	.	.	.	1
$144_{15} = \chi_{27,0}$	.	1	.	.	.	1	.	.	1	.	.
$144_{16} = \chi_{27,1}$	.	.	1	.	.	.	1	.	.	1	.
$144_{17} = \chi_{27,2}$	.	.	.	1	1	.	.	1	.	.	.

(Blocks 5, 6:)	$\varphi_{17,1}$	$\varphi_{17,2}$		
$21_4 = \chi_{15,0}$	.	.		
$21_5 = \chi_{15,1}$	.	.		
$21_6 = \chi_{15,2}$	.	.		
$21_{10} = \chi_{16,0}$	.	.	$\varphi_{10,0} =$	3_1
$21_{11} = \chi_{16,1}$	.	.	$\varphi_{10,1} =$	3_2
$21_{12} = \chi_{16,2}$	.	.	$\varphi_{10,2} =$	3_3
$144_7 = \chi_{17+}$	.	.	$\varphi_{11,0} =$	6_1
$84_5 = \chi_{20,0}$	.	.	$\varphi_{11,1} =$	6_2
$84_6 = \chi_{20,1}$	.	.	$\varphi_{11,2} =$	6_3
$84_7 = \chi_{20,2}$	.	.	$\varphi_{12,0} =$	15_1
$105_4 = \chi_{21,0}$	.	.	$\varphi_{12,1} =$	15_2
$105_5 = \chi_{21,1}$	.	.	$\varphi_{12,2} =$	15_3
$105_6 = \chi_{21,2}$	.	.	$\varphi_{13,0} =$	15_7
$105_{10} = \chi_{22,0}$	.	.	$\varphi_{13,1} =$	15_8
$105_{11} = \chi_{22,1}$	1	.	$\varphi_{13,2} =$	15_9
$105_{12} = \chi_{22,2}$	.	1	$\varphi_{14,0} =$	18_1
$126_{10} = \chi_{23,0}$	.	.	$\varphi_{14,1} =$	18_2
$126_{11} = \chi_{23,1}$	.	.	$\varphi_{14,2} =$	18_3
$126_{12} = \chi_{23,2}$	.	.	$\varphi_{15,0} =$	39_1
$126_{16} = \chi_{24,0}$	1	.	$\varphi_{15,1} =$	39_2
$126_{17} = \chi_{24,1}$	.	1	$\varphi_{15,2} =$	39_3
$126_{18} = \chi_{24,2}$	.	.	$\varphi_{16,0} =$	60_1
$126_{22} = \chi_{25,0}$	.	.	$\varphi_{16,1} =$	60_2
$126_{23} = \chi_{25,1}$	.	.	$\varphi_{16,2} =$	60_3
$126_{24} = \chi_{25,2}$	.	.	$\varphi_{17,0} =$	90_1
$144_9 = \chi_{26,0}$	1	.	$\varphi_{17,1} =$	90_2
$144_{10} = \chi_{26,1}$	.	1	$\varphi_{17,2} =$	90_3
$144_{11} = \chi_{26,2}$	.	.		
$144_{15} = \chi_{27,0}$	.	.		
$144_{16} = \chi_{27,1}$	.	.		
$144_{17} = \chi_{27,2}$	.	.		