

$U_3(9).4 \pmod{5}$

	blocks	defect	matrix
$G :$	1	2	16×12
	2	2	14×8
	3	1	5×4
	4	1	4×2
	5	1	5×1
	6	0	$3200_1 = \chi_{69+}, \varphi_{13+}$

	blocks	defect	matrix
	7	0	$3200_2 = \chi_{73+}, \varphi_{17+}$
	8	0	$3200_3 = \chi_{77+}, \varphi_{21+}$
	9	0	$3200_4 = \chi_{81+}, \varphi_{25+}$
	10	0	$3200_5 = \chi_{85+}, \varphi_{29+}$
	11	0	$3200_6 = \chi_{89+}, \varphi_{33+}$

Block 1:	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{1,2}$	$\varphi_{1,3}$	$\varphi_{2,0}$	$\varphi_{2,1}$	$\varphi_{2,2}$	$\varphi_{2,3}$	$\varphi_{5,0}$	$\varphi_{5,1}$	$\varphi_{5,2}$	$\varphi_{5,3}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	.	1	.	.	.	.	.	.	.	.	.	.
$1_3 = \chi_{1,2}$	.	.	1	.	.	.	.	.	.	.	.	.
$1_4 = \chi_{1,3}$	.	.	.	1	.	.	.	.	.	.	.	.
$72_1 = \chi_{2,0}$	.	.	.	.	1	.	.	.	.	.	.	.
$72_2 = \chi_{2,1}$	.	.	.	.	.	1	.	.	.	.	.	.
$72_3 = \chi_{2,2}$	.	.	.	.	.	.	1	.	.	.	.	.
$72_4 = \chi_{2,3}$	.	.	.	.	.	.	.	1	.	.	.	.
$292_1 = \chi_{4+}$	1	1	1	1	1	1	1	1	.	.	.	.
$1168_3 = \chi_{14,0+}$	.	.	.	.	.	.	.	.	1	.	1	.
$1168_4 = \chi_{14,1+}$	.	.	.	.	.	.	.	.	.	1	.	1
$2628_1 = \chi_{25+}$	1	1	1	1	1	1	1	1	1	1	1	1
$729_1 = \chi_{33,0}$	1	.	.	.	.	1	1	.	1	.	.	.
$729_2 = \chi_{33,1}$	.	1	.	.	.	.	1	1	.	1	.	.
$729_3 = \chi_{33,2}$	.	.	1	.	1	.	.	1	.	.	1	.
$729_4 = \chi_{33,3}$	.	.	.	1	1	1	.	.	.	.	.	1

$$\begin{array}{ll}
 \varphi_{1,0} & = 1_1 \\
 \varphi_{1,1} & = 1_2 \\
 \varphi_{1,2} & = 1_3 \\
 \varphi_{1,3} & = 1_4 \\
 \varphi_{2,0} & = 72_1 \\
 \varphi_{2,1} & = 72_2 \\
 \varphi_{2,2} & = 72_3 \\
 \varphi_{2,3} & = 72_4 \\
 \varphi_{5,0} & = 584_5 \\
 \varphi_{5,1} & = 584_6 \\
 \varphi_{5,2} & = 584_7 \\
 \varphi_{5,3} & = 584_8
 \end{array}$$

Block 2:	$\varphi_{3,0}$	$\varphi_{3,1}$	$\varphi_{3,2}$	$\varphi_{3,3}$	$\varphi_{4,0}$	$\varphi_{4,1}$	$\varphi_{4,2}$	$\varphi_{4,3}$	
$73_1 = \chi_{3,0}$	1	.	.	.	.	.	.	.	
$73_2 = \chi_{3,1}$	.	1	.	.	.	.	.	.	
$73_3 = \chi_{3,2}$	.	.	1	.	.	.	.	.	$\varphi_{3,0} = 73_1$
$73_4 = \chi_{3,3}$	.	.	.	1	.	.	.	.	$\varphi_{3,1} = 73_2$
$292_2 = \chi_{8+}$	1	1	1	1	.	.	.	.	$\varphi_{3,2} = 73_3$
$1168_1 = \chi_{12,0+}$	.	.	.	.	1	.	1	.	$\varphi_{3,3} = 73_4$
$1168_2 = \chi_{12,1+}$	.	.	.	.	.	1	.	1	$\varphi_{4,0} = 584_1$
$2336_1 = \chi_{16+}$	.	.	.	.	1	1	1	1	$\varphi_{4,1} = 584_2$
$2336_2 = \chi_{20+}$	.	.	.	.	1	1	1	1	$\varphi_{4,2} = 584_3$
$657_1 = \chi_{24,0}$	.	.	1	.	1	.	.	.	$\varphi_{4,3} = 584_4$
$657_2 = \chi_{24,1}$	.	.	.	1	.	1	.	.	
$657_3 = \chi_{24,2}$	1	.	.	.	.	.	1	.	
$657_4 = \chi_{24,3}$	.	1	.	.	.	.	.	1	
$2628_2 = \chi_{29+}$	1	1	1	1	1	1	1	1	

Block 3:	$\varphi_{6,0}$	$\varphi_{6,1}$	$\varphi_{6,2}$	$\varphi_{6,3}$	
$730_1 = \chi_{34,0}$	1	.	.	.	$\varphi_{6,0} = 730_1$
$730_2 = \chi_{34,1}$	.	1	.	.	$\varphi_{6,1} = 730_2$
$730_3 = \chi_{34,2}$	.	.	1	.	$\varphi_{6,2} = 730_3$
$730_4 = \chi_{34,3}$	.	.	.	1	$\varphi_{6,3} = 730_4$
$2920_1 = \chi_{37+}$	1	1	1	1	

Block 4:	$\varphi_{7,0+}$	$\varphi_{7,1+}$	
$1460_1 = \chi_{35,0+}$	1	.	$\varphi_{7,0+} = 1460_1$
$1460_2 = \chi_{35,1+}$	.	1	$\varphi_{7,1+} = 1460_2$
$2920_3 = \chi_{45+}$	1	1	
$2920_4 = \chi_{49+}$	1	1	

Block 5:	φ_{9+}	
$2920_2 = \chi_{41+}$	1	
$2920_5 = \chi_{53+}$	1	$\varphi_{9+} = 2920_1$
$2920_6 = \chi_{57+}$	1	
$2920_7 = \chi_{61+}$	1	
$2920_8 = \chi_{65+}$	1	