

$U_3(9).2 \pmod{2}$

	blocks	defect	matrix
$G :$	1	6	18×3
	2	5	12×2
	3	5	12×2
	4	3	5×1
	5	3	5×1
	6	0	$1600_1 = \chi_{69+}, \varphi_{14+}$
	7	0	$1600_2 = \chi_{71+}, \varphi_{16+}$
	8	0	$1600_3 = \chi_{73+}, \varphi_{18+}$
	9	0	$1600_4 = \chi_{75+}, \varphi_{20+}$

	blocks	defect	matrix
	10	0	$1600_5 = \chi_{77+}, \varphi_{22+}$
	11	0	$1600_6 = \chi_{79+}, \varphi_{24+}$
	12	0	$1600_7 = \chi_{81+}, \varphi_{26+}$
	13	0	$1600_8 = \chi_{83+}, \varphi_{28+}$
	14	0	$1600_9 = \chi_{85+}, \varphi_{30+}$
	15	0	$1600_{10} = \chi_{87+}, \varphi_{32+}$
	16	0	$1600_{11} = \chi_{89+}, \varphi_{34+}$
	17	0	$1600_{12} = \chi_{91+}, \varphi_{36+}$

Block 1:	$\varphi_{1,0}$	$\varphi_{2,0}$	$\varphi_{13,0}$
$1_1 = \chi_{1,0}$	1	.	.
$1_2 = \chi_{1,1}$	1	.	.
$72_1 = \chi_{2,0}$	.	1	.
$72_2 = \chi_{2,1}$	.	1	.
$73_1 = \chi_{3,0}$	1	1	.
$73_2 = \chi_{3,1}$	1	1	.
$657_1 = \chi_{24,0}$	1	.	1
$657_2 = \chi_{24,1}$	1	.	1
$729_1 = \chi_{33,0}$	1	1	1
$729_2 = \chi_{33,1}$	1	1	1
$730_1 = \chi_{34,0}$	2	1	1
$730_2 = \chi_{34,1}$	2	1	1
$730_3 = \chi_{35,0}$	2	1	1
$730_4 = \chi_{35,1}$	2	1	1
$730_5 = \chi_{36,0}$	2	1	1
$730_6 = \chi_{36,1}$	2	1	1
$1460_3 = \chi_{41+}$	4	2	2
$1460_4 = \chi_{43+}$	4	2	2

$$\begin{aligned}
 \varphi_{1,0} &= 1_1 \\
 \varphi_{2,0} &= 72_1 \\
 \varphi_{13,0} &= 656_1
 \end{aligned}$$

Block 2:	φ_{3+}	φ_{9+}		
$146_1 = \chi_{4+}$	1	.		
$146_3 = \chi_{8+}$	1	.		
$1168_3 = \chi_{20+}$	.	1		
$1314_1 = \chi_{25+}$	1	1		
$1314_3 = \chi_{29+}$	1	1	$\varphi_{3+} = 146_1$	
$1460_1 = \chi_{37+}$	2	1	$\varphi_{9+} = 1168_1$	
$1460_5 = \chi_{45+}$	2	1		
$1460_7 = \chi_{49+}$	2	1		
$1460_9 = \chi_{53+}$	2	1		
$1460_{11} = \chi_{57+}$	2	1		
$1460_{13} = \chi_{61+}$	2	1		
$1460_{15} = \chi_{65+}$	2	1		

Block 3:	φ_{5+}	φ_{11+}		
$146_2 = \chi_{6+}$	1	.		
$146_4 = \chi_{10+}$	1	.		
$1168_4 = \chi_{22+}$	.	1		
$1314_2 = \chi_{27+}$	1	1		
$1314_4 = \chi_{31+}$	1	1	$\varphi_{5+} = 146_2$	
$1460_2 = \chi_{39+}$	2	1	$\varphi_{11+} = 1168_2$	
$1460_6 = \chi_{47+}$	2	1		
$1460_8 = \chi_{51+}$	2	1		
$1460_{10} = \chi_{55+}$	2	1		
$1460_{12} = \chi_{59+}$	2	1		
$1460_{14} = \chi_{63+}$	2	1		
$1460_{16} = \chi_{67+}$	2	1		

Block 4:	$\varphi_{7,0}$	
$584_1 = \chi_{12,0}$	1	
$584_2 = \chi_{12,1}$	1	$\varphi_{7,0} = 584_1$
$584_5 = \chi_{14,0}$	1	
$584_6 = \chi_{14,1}$	1	
$1168_2 = \chi_{18+}$	2	

Block 5:	$\varphi_{8,0}$
$584_3 = \chi_{13,0}$	1
$584_4 = \chi_{13,1}$	1
$584_7 = \chi_{15,0}$	1
$584_8 = \chi_{15,1}$	1
$1168_1 = \chi_{16+}$	2

$$\varphi_{8,0} = 584_2$$