

$U_3(9).2 \pmod{73}$

	blocks	defect	matrix
$G :$	1	1	18×6
	2	0	$73_1 = \chi_{3,0}, \varphi_{3,0}$
	3	0	$73_2 = \chi_{3,1}, \varphi_{3,1}$
	4	0	$146_1 = \chi_{4+}, \varphi_{4+}$
	5	0	$146_2 = \chi_{6+}, \varphi_{6+}$
	6	0	$146_3 = \chi_{8+}, \varphi_{8+}$
	7	0	$146_4 = \chi_{10+}, \varphi_{10+}$
	8	0	$584_1 = \chi_{12,0}, \varphi_{12,0}$
	9	0	$584_2 = \chi_{12,1}, \varphi_{12,1}$
	10	0	$584_3 = \chi_{13,0}, \varphi_{13,0}$
	11	0	$584_4 = \chi_{13,1}, \varphi_{13,1}$
	12	0	$584_5 = \chi_{14,0}, \varphi_{14,0}$
	13	0	$584_6 = \chi_{14,1}, \varphi_{14,1}$
	14	0	$584_7 = \chi_{15,0}, \varphi_{15,0}$
	15	0	$584_8 = \chi_{15,1}, \varphi_{15,1}$
	16	0	$1168_1 = \chi_{16+}, \varphi_{16+}$
	17	0	$1168_2 = \chi_{18+}, \varphi_{18+}$
	18	0	$1168_3 = \chi_{20+}, \varphi_{20+}$
	19	0	$1168_4 = \chi_{22+}, \varphi_{22+}$
	20	0	$657_1 = \chi_{24,0}, \varphi_{24,0}$
	21	0	$657_2 = \chi_{24,1}, \varphi_{24,1}$
	22	0	$1314_1 = \chi_{25+}, \varphi_{25+}$
	23	0	$1314_2 = \chi_{27+}, \varphi_{27+}$
	24	0	$1314_3 = \chi_{29+}, \varphi_{29+}$

	blocks	defect	matrix
	25	0	$1314_4 = \chi_{31+}, \varphi_{31+}$
	26	0	$730_1 = \chi_{34,0}, \varphi_{34,0}$
	27	0	$730_2 = \chi_{34,1}, \varphi_{34,1}$
	28	0	$730_3 = \chi_{35,0}, \varphi_{35,0}$
	29	0	$730_4 = \chi_{35,1}, \varphi_{35,1}$
	30	0	$730_5 = \chi_{36,0}, \varphi_{36,0}$
	31	0	$730_6 = \chi_{36,1}, \varphi_{36,1}$
	32	0	$1460_1 = \chi_{37+}, \varphi_{37+}$
	33	0	$1460_2 = \chi_{39+}, \varphi_{39+}$
	34	0	$1460_3 = \chi_{41+}, \varphi_{41+}$
	35	0	$1460_4 = \chi_{43+}, \varphi_{43+}$
	36	0	$1460_5 = \chi_{45+}, \varphi_{45+}$
	37	0	$1460_6 = \chi_{47+}, \varphi_{47+}$
	38	0	$1460_7 = \chi_{49+}, \varphi_{49+}$
	39	0	$1460_8 = \chi_{51+}, \varphi_{51+}$
	40	0	$1460_9 = \chi_{53+}, \varphi_{53+}$
	41	0	$1460_{10} = \chi_{55+}, \varphi_{55+}$
	42	0	$1460_{11} = \chi_{57+}, \varphi_{57+}$
	43	0	$1460_{12} = \chi_{59+}, \varphi_{59+}$
	44	0	$1460_{13} = \chi_{61+}, \varphi_{61+}$
	45	0	$1460_{14} = \chi_{63+}, \varphi_{63+}$
	46	0	$1460_{15} = \chi_{65+}, \varphi_{65+}$
	47	0	$1460_{16} = \chi_{67+}, \varphi_{67+}$

Block 1:	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{2,0}$	$\varphi_{2,1}$	$\varphi_{33,0}$	$\varphi_{33,1}$
$1_1 = \chi_{1,0}$	1
$1_2 = \chi_{1,1}$.	1
$72_1 = \chi_{2,0}$.	.	1	.	.	.
$72_2 = \chi_{2,1}$.	.	.	1	.	.
$729_1 = \chi_{33,0}$	1	.	.	.	1	.
$729_2 = \chi_{33,1}$.	1	.	.	.	1
$1600_1 = \chi_{69+}$.	.	1	1	1	1
$1600_2 = \chi_{71+}$.	.	1	1	1	1
$1600_3 = \chi_{73+}$.	.	1	1	1	1
$1600_4 = \chi_{75+}$.	.	1	1	1	1
$1600_5 = \chi_{77+}$.	.	1	1	1	1
$1600_6 = \chi_{79+}$.	.	1	1	1	1
$1600_7 = \chi_{81+}$.	.	1	1	1	1
$1600_8 = \chi_{83+}$.	.	1	1	1	1
$1600_9 = \chi_{85+}$.	.	1	1	1	1
$1600_{10} = \chi_{87+}$.	.	1	1	1	1
$1600_{11} = \chi_{89+}$.	.	1	1	1	1
$1600_{12} = \chi_{91+}$.	.	1	1	1	1

$$\begin{aligned}
\varphi_{1,0} &= 1_1 \\
\varphi_{1,1} &= 1_2 \\
\varphi_{2,0} &= 72_1 \\
\varphi_{2,1} &= 72_2 \\
\varphi_{33,0} &= 728_1 \\
\varphi_{33,1} &= 728_2
\end{aligned}$$