

$U_3(9) \pmod{73}$

	blocks	defect	matrix
$G :$	1	1	27×3
	2	0	$73_1 = \chi_3, \varphi_3$
	3	0	$73_2 = \chi_4, \varphi_4$
	$4 = \overline{3}$	0	$73_3 = \chi_5, \varphi_5$
	5	0	$73_4 = \chi_6, \varphi_6$
	$6 = \overline{5}$	0	$73_5 = \chi_7, \varphi_7$
	7	0	$73_6 = \chi_8, \varphi_8$
	$8 = \overline{7}$	0	$73_7 = \chi_9, \varphi_9$
	9	0	$73_8 = \chi_{10}, \varphi_{10}$
	$10 = \overline{9}$	0	$73_9 = \chi_{11}, \varphi_{11}$
	11	0	$584_1 = \chi_{12}, \varphi_{12}$
	12	0	$584_2 = \chi_{13}, \varphi_{13}$
	13	0	$584_3 = \chi_{14}, \varphi_{14}$
	14	0	$584_4 = \chi_{15}, \varphi_{15}$
	15	0	$584_5 = \chi_{16}, \varphi_{16}$
	$16 = \overline{15}$	0	$584_6 = \chi_{17}, \varphi_{17}$
	17	0	$584_7 = \chi_{18}, \varphi_{18}$
	$18 = \overline{17}$	0	$584_8 = \chi_{19}, \varphi_{19}$
	19	0	$584_9 = \chi_{20}, \varphi_{20}$
	$20 = \overline{19}$	0	$584_{10} = \chi_{21}, \varphi_{21}$
	21	0	$584_{11} = \chi_{22}, \varphi_{22}$
	$22 = \overline{21}$	0	$584_{12} = \chi_{23}, \varphi_{23}$
	23	0	$657_1 = \chi_{24}, \varphi_{24}$
	24	0	$657_2 = \chi_{25}, \varphi_{25}$
	$25 = \overline{24}$	0	$657_3 = \chi_{26}, \varphi_{26}$
	26	0	$657_4 = \chi_{27}, \varphi_{27}$
	$27 = \overline{26}$	0	$657_5 = \chi_{28}, \varphi_{28}$
	28	0	$657_6 = \chi_{29}, \varphi_{29}$
	$29 = \overline{28}$	0	$657_7 = \chi_{30}, \varphi_{30}$
	30	0	$657_8 = \chi_{31}, \varphi_{31}$
	$31 = \overline{30}$	0	$657_9 = \chi_{32}, \varphi_{32}$
	32	0	$730_1 = \chi_{34}, \varphi_{34}$
	33	0	$730_2 = \chi_{35}, \varphi_{35}$

	blocks	defect	matrix
	34	0	$730_3 = \chi_{36}, \varphi_{36}$
	35	0	$730_4 = \chi_{37}, \varphi_{37}$
	$36 = \overline{35}$	0	$730_5 = \chi_{38}, \varphi_{38}$
	37	0	$730_6 = \chi_{39}, \varphi_{39}$
	$38 = \overline{37}$	0	$730_7 = \chi_{40}, \varphi_{40}$
	39	0	$730_8 = \chi_{41}, \varphi_{41}$
	$40 = \overline{39}$	0	$730_9 = \chi_{42}, \varphi_{42}$
	41	0	$730_{10} = \chi_{43}, \varphi_{43}$
	$42 = \overline{41}$	0	$730_{11} = \chi_{44}, \varphi_{44}$
	43	0	$730_{12} = \chi_{45}, \varphi_{45}$
	$44 = \overline{43}$	0	$730_{13} = \chi_{46}, \varphi_{46}$
	45	0	$730_{14} = \chi_{47}, \varphi_{47}$
	$46 = \overline{45}$	0	$730_{15} = \chi_{48}, \varphi_{48}$
	47	0	$730_{16} = \chi_{49}, \varphi_{49}$
	$48 = \overline{47}$	0	$730_{17} = \chi_{50}, \varphi_{50}$
	49	0	$730_{18} = \chi_{51}, \varphi_{51}$
	$50 = \overline{49}$	0	$730_{19} = \chi_{52}, \varphi_{52}$
	51	0	$730_{20} = \chi_{53}, \varphi_{53}$
	$52 = \overline{51}$	0	$730_{21} = \chi_{54}, \varphi_{54}$
	53	0	$730_{22} = \chi_{55}, \varphi_{55}$
	$54 = \overline{53}$	0	$730_{23} = \chi_{56}, \varphi_{56}$
	55	0	$730_{24} = \chi_{57}, \varphi_{57}$
	$56 = \overline{55}$	0	$730_{25} = \chi_{58}, \varphi_{58}$
	57	0	$730_{26} = \chi_{59}, \varphi_{59}$
	$58 = \overline{57}$	0	$730_{27} = \chi_{60}, \varphi_{60}$
	59	0	$730_{28} = \chi_{61}, \varphi_{61}$
	$60 = \overline{59}$	0	$730_{29} = \chi_{62}, \varphi_{62}$
	61	0	$730_{30} = \chi_{63}, \varphi_{63}$
	$62 = \overline{61}$	0	$730_{31} = \chi_{64}, \varphi_{64}$
	63	0	$730_{32} = \chi_{65}, \varphi_{65}$
	$64 = \overline{63}$	0	$730_{33} = \chi_{66}, \varphi_{66}$
	65	0	$730_{34} = \chi_{67}, \varphi_{67}$
	$66 = \overline{65}$	0	$730_{35} = \chi_{68}, \varphi_{68}$

Block 1:	φ_1	φ_2	φ_{33}
$1_1 = \chi_1$	1	.	.
$72_1 = \chi_2$	.	1	.
$729_1 = \chi_{33}$	1	.	1
$800_1 = \chi_{69}$	.	1	1
$800_2 = \chi_{70}$	.	1	1
$800_3 = \chi_{71}$	.	1	1
$800_4 = \chi_{72}$	.	1	1
$800_5 = \chi_{73}$	.	1	1
$800_6 = \chi_{74}$	.	1	1
$800_7 = \chi_{75}$	.	1	1
$800_8 = \chi_{76}$	.	1	1
$800_9 = \chi_{77}$	.	1	1
$800_{10} = \chi_{78}$	.	1	1
$800_{11} = \chi_{79}$	.	1	1
$800_{12} = \chi_{80}$	.	1	1
$800_{13} = \chi_{81}$	.	1	1
$800_{14} = \chi_{82}$	.	1	1
$800_{15} = \chi_{83}$	.	1	1
$800_{16} = \chi_{84}$	.	1	1
$800_{17} = \chi_{85}$	.	1	1
$800_{18} = \chi_{86}$	.	1	1
$800_{19} = \chi_{87}$	.	1	1
$800_{20} = \chi_{88}$	.	1	1
$800_{21} = \chi_{89}$	.	1	1
$800_{22} = \chi_{90}$	.	1	1
$800_{23} = \chi_{91}$	.	1	1
$800_{24} = \chi_{92}$	.	1	1

$$\begin{aligned}
\varphi_1 &= 1_1 \\
\varphi_2 &= 72_1 \\
\varphi_{33} &= 728_1
\end{aligned}$$