

$L_3(8) \pmod{73}$

	blocks	defect	matrix
$G :$	1	1	27×3
	2	0	$73_1 = \chi_3, \varphi_3$
	$3 = \overline{2}$	0	$73_2 = \chi_4, \varphi_4$
	4	0	$73_3 = \chi_5, \varphi_5$
	$5 = \overline{4}$	0	$73_4 = \chi_6, \varphi_6$
	6	0	$73_5 = \chi_7, \varphi_7$
	$7 = \overline{6}$	0	$73_6 = \chi_8, \varphi_8$
	8	0	$511_1 = \chi_{33}, \varphi_{10}$
	9	0	$511_2 = \chi_{34}, \varphi_{11}$
	10	0	$511_3 = \chi_{35}, \varphi_{12}$
	11	0	$511_4 = \chi_{36}, \varphi_{13}$
	12	0	$511_5 = \chi_{37}, \varphi_{14}$
	$13 = \overline{12}$	0	$511_6 = \chi_{38}, \varphi_{15}$
	14	0	$511_7 = \chi_{39}, \varphi_{16}$
	$15 = \overline{14}$	0	$511_8 = \chi_{40}, \varphi_{17}$
	16	0	$511_9 = \chi_{41}, \varphi_{18}$
	$17 = \overline{16}$	0	$511_{10} = \chi_{42}, \varphi_{19}$
	18	0	$511_{11} = \chi_{43}, \varphi_{20}$
	$19 = \overline{18}$	0	$511_{12} = \chi_{44}, \varphi_{21}$
	20	0	$511_{13} = \chi_{45}, \varphi_{22}$
	$21 = \overline{20}$	0	$511_{14} = \chi_{46}, \varphi_{23}$
	22	0	$511_{15} = \chi_{47}, \varphi_{24}$
	$23 = \overline{22}$	0	$511_{16} = \chi_{48}, \varphi_{25}$

	blocks	defect	matrix
	24	0	$511_{17} = \chi_{49}, \varphi_{26}$
	$25 = \overline{24}$	0	$511_{18} = \chi_{50}, \varphi_{27}$
	26	0	$511_{19} = \chi_{51}, \varphi_{28}$
	$27 = \overline{26}$	0	$511_{20} = \chi_{52}, \varphi_{29}$
	28	0	$511_{21} = \chi_{53}, \varphi_{30}$
	$29 = \overline{28}$	0	$511_{22} = \chi_{54}, \varphi_{31}$
	30	0	$511_{23} = \chi_{55}, \varphi_{32}$
	$31 = \overline{30}$	0	$511_{24} = \chi_{56}, \varphi_{33}$
	32	0	$511_{25} = \chi_{57}, \varphi_{34}$
	$33 = \overline{32}$	0	$511_{26} = \chi_{58}, \varphi_{35}$
	34	0	$511_{27} = \chi_{59}, \varphi_{36}$
	$35 = \overline{34}$	0	$511_{28} = \chi_{60}, \varphi_{37}$
	36	0	$584_1 = \chi_{62}, \varphi_{38}$
	$37 = \overline{36}$	0	$584_2 = \chi_{63}, \varphi_{39}$
	38	0	$584_3 = \chi_{64}, \varphi_{40}$
	$39 = \overline{38}$	0	$584_4 = \chi_{65}, \varphi_{41}$
	40	0	$584_5 = \chi_{66}, \varphi_{42}$
	$41 = \overline{40}$	0	$584_6 = \chi_{67}, \varphi_{43}$
	42	0	$657_1 = \chi_{68}, \varphi_{44}$
	$43 = \overline{42}$	0	$657_2 = \chi_{69}, \varphi_{45}$
	44	0	$657_3 = \chi_{70}, \varphi_{46}$
	45	0	$657_4 = \chi_{71}, \varphi_{47}$
	46	0	$657_5 = \chi_{72}, \varphi_{48}$

Block 1:	φ_1	φ_2	φ_9
$1_1 = \chi_1$	1	.	.
$72_1 = \chi_2$	1	1	.
$441_1 = \chi_9$.	.	1
$441_2 = \chi_{10}$.	.	1
$441_3 = \chi_{11}$.	.	1
$441_4 = \chi_{12}$.	.	1
$441_5 = \chi_{13}$.	.	1
$441_6 = \chi_{14}$.	.	1
$441_7 = \chi_{15}$.	.	1
$441_8 = \chi_{16}$.	.	1
$441_9 = \chi_{17}$.	.	1
$441_{10} = \chi_{18}$.	.	1
$441_{11} = \chi_{19}$.	.	1
$441_{12} = \chi_{20}$.	.	1
$441_{13} = \chi_{21}$.	.	1
$441_{14} = \chi_{22}$.	.	1
$441_{15} = \chi_{23}$.	.	1
$441_{16} = \chi_{24}$.	.	1
$441_{17} = \chi_{25}$.	.	1
$441_{18} = \chi_{26}$.	.	1
$441_{19} = \chi_{27}$.	.	1
$441_{20} = \chi_{28}$.	.	1
$441_{21} = \chi_{29}$.	.	1
$441_{22} = \chi_{30}$.	.	1
$441_{23} = \chi_{31}$.	.	1
$441_{24} = \chi_{32}$.	.	1
$512_1 = \chi_{61}$.	1	1

$$\begin{aligned} \varphi_1 &= 1_1 \\ \varphi_2 &= 71_1 \\ \varphi_9 &= 441_1 \end{aligned}$$