

# $L_6(2) \pmod{3}$

	blocks	defect	matrix
$G :$	1	4	$23 \times 10$
	2	2	$6 \times 2$
	$3 = \bar{2}$	2	$6 \times 2$
	4	1	$3 \times 2$
	$5 = \bar{4}$	1	$3 \times 2$
	6	0	$6480_1 = \chi_{15}, \varphi_{12}$
	7	0	$12555_1 = \chi_{30}, \varphi_{17}$
	8	2	$9 \times 2$
	9	0	$19845_1 = \chi_{41}, \varphi_{21}$
	$10 = \bar{9}$	0	$19845_2 = \chi_{42}, \varphi_{22}$
	11	0	$19845_3 = \chi_{43}, \varphi_{23}$
	$12 = \bar{11}$	0	$19845_4 = \chi_{44}, \varphi_{24}$
	13	0	$19845_5 = \chi_{45}, \varphi_{25}$
	$14 = \bar{13}$	0	$19845_6 = \chi_{46}, \varphi_{26}$
	15	0	$25110_1 = \chi_{47}, \varphi_{27}$
	$16 = \bar{15}$	0	$25110_2 = \chi_{48}, \varphi_{28}$

<b>Block 1:</b>	$\varphi_1$	$\varphi_2$	$\varphi_3$	$\varphi_4$	$\varphi_5$	$\varphi_8$	$\varphi_{11}$	$\varphi_{13}$	$\varphi_{14}$	$\varphi_{20}$
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	.	.
$62_1 = \chi_2$	1	1	.	.	.	.	.	.	.	.
$217_1 = \chi_3$	.	.	1	.	.	.	.	.	.	.
$588_1 = \chi_4$	.	1	.	1	.	.	.	.	.	.
$651_1 = \chi_5$	.	.	.	.	1	.	.	.	.	.
$744_1 = \chi_6$	.	.	1	1	.	.	.	.	.	.
$1240_1 = \chi_7$	1	1	.	1	1	.	.	.	.	.
$4340_1 = \chi_{12}$	.	.	1	.	.	1	.	.	.	.
$4557_1 = \chi_{13}$	.	.	.	.	.	.	1	.	.	.
$5952_1 = \chi_{14}$	.	.	1	1	1	.	1	.	.	.
$9114_1 = \chi_{16}$	.	.	.	.	1	.	.	1	.	.
$9114_2 = \chi_{17}$	.	.	2	.	.	1	1	.	.	.
$9765_1 = \chi_{18}$	.	.	.	.	.	.	.	.	1	.
$9920_1 = \chi_{27}$	1	1	1	1	1	.	.	1	.	.
$13020_1 = \chi_{31}$	.	.	2	.	.	1	.	1	.	.
$13888_1 = \chi_{38}$	.	.	.	.	.	1	.	.	1	.
$18228_1 = \chi_{39}$	.	.	.	.	.	.	.	.	.	1
$18816_1 = \chi_{40}$	.	1	2	1	1	1	1	1	.	.
$31744_1 = \chi_{54}$	1	1	1	.	1	1	.	1	.	1
$32768_1 = \chi_{55}$	1	.	.	.	1	1	.	.	1	1
$36456_1 = \chi_{58}$	.	.	2	.	1	1	1	1	.	1
$36456_2 = \chi_{59}$	.	.	1	.	.	2	.	.	1	1
$41664_1 = \chi_{60}$	.	.	1	.	1	2	1	.	1	1

$\varphi_1$	=	$1_1$
$\varphi_2$	=	$61_1$
$\varphi_3$	=	$217_1$
$\varphi_4$	=	$527_1$
$\varphi_5$	=	$651_1$
$\varphi_8$	=	$4123_1$
$\varphi_{11}$	=	$4557_1$
$\varphi_{13}$	=	$8463_1$
$\varphi_{14}$	=	$9765_1$
$\varphi_{20}$	=	$18228_1$

<b>Block 2:</b>	$\varphi_6$	$\varphi_{15}$
$1395_1 = \chi_8$	1	.
$9765_2 = \chi_{19}$	.	1
$9765_4 = \chi_{21}$	.	1
$9765_6 = \chi_{23}$	.	1
$9765_8 = \chi_{25}$	.	1
$11160_1 = \chi_{28}$	1	1

$\varphi_6$	=	$1395_1$
$\varphi_{15}$	=	$9765_2$

<b>Block 3:</b>	$\varphi_7$	$\varphi_{16}$
$1395_2 = \chi_9$	1	.
$9765_3 = \chi_{20}$	.	1
$9765_5 = \chi_{22}$	.	1
$9765_7 = \chi_{24}$	.	1
$9765_9 = \chi_{26}$	.	1
$11160_2 = \chi_{29}$	1	1

$$\begin{aligned}\varphi_7 &= 1395_2 \\ \varphi_{16} &= 9765_3\end{aligned}$$

<b>Block 4:</b>	$\varphi_9$	$\varphi_{29}$
$4185_1 = \chi_{10}$	1	.
$29295_1 = \chi_{52}$	.	1
$33480_1 = \chi_{56}$	1	1

$$\begin{aligned}\varphi_9 &= 4185_1 \\ \varphi_{29} &= 29295_1\end{aligned}$$

<b>Block 5:</b>	$\varphi_{10}$	$\varphi_{30}$
$4185_2 = \chi_{11}$	1	.
$29295_2 = \chi_{53}$	.	1
$33480_2 = \chi_{57}$	1	1

$$\begin{aligned}\varphi_{10} &= 4185_2 \\ \varphi_{30} &= 29295_2\end{aligned}$$

<b>Block 8:</b>	$\varphi_{18}$	$\varphi_{19}$
$13671_1 = \chi_{32}$	1	.
$13671_2 = \chi_{33}$	.	1
$13671_3 = \chi_{34}$	1	.
$13671_4 = \chi_{35}$	1	.
$13671_5 = \chi_{36}$	.	1
$13671_6 = \chi_{37}$	.	1
$27342_1 = \chi_{49}$	1	1
$27342_2 = \chi_{50}$	1	1
$27342_3 = \chi_{51}$	1	1

$$\begin{aligned}\varphi_{18} &= 13671_1 \\ \varphi_{19} &= 13671_2\end{aligned}$$