

$L_6(2).2 \pmod{5}$

	blocks	defect	matrix		blocks	defect	matrix
$G :$	1	1	5×4		19	0	$9765_2 = \chi_{18,1}, \varphi_{18,1}$
	2	1	5×4		20	0	$19530_1 = \chi_{19+}, \varphi_{19+}$
	3	1	5×4		21	0	$19530_2 = \chi_{21+}, \varphi_{21+}$
	4	1	5×4		22	0	$19530_3 = \chi_{23+}, \varphi_{23+}$
	5	1	5×4		23	0	$19530_4 = \chi_{25+}, \varphi_{25+}$
	6	1	5×4		24	0	$9920_1 = \chi_{27,0}, \varphi_{27,0}$
	7	1	5×4		25	0	$9920_2 = \chi_{27,1}, \varphi_{27,1}$
	8	0	$1240_1 = \chi_{7,0}, \varphi_{7,0}$		26	0	$22320_1 = \chi_{28+}, \varphi_{28+}$
	9	0	$1240_2 = \chi_{7,1}, \varphi_{7,1}$		27	0	$12555_1 = \chi_{30,0}, \varphi_{30,0}$
	10	0	$2790_1 = \chi_{8+}, \varphi_{8+}$		28	0	$12555_2 = \chi_{30,1}, \varphi_{30,1}$
	11	0	$8370_1 = \chi_{10+}, \varphi_{10+}$		29	0	$13020_1 = \chi_{31,0}, \varphi_{31,0}$
	12	0	$4340_1 = \chi_{12,0}, \varphi_{12,0}$		30	0	$13020_2 = \chi_{31,1}, \varphi_{31,1}$
	13	0	$4340_2 = \chi_{12,1}, \varphi_{12,1}$		31	0	$39690_1 = \chi_{41+}, \varphi_{37+}$
	14	1	5×4		32	0	$39690_2 = \chi_{43+}, \varphi_{39+}$
	15	0	$6480_1 = \chi_{15,0}, \varphi_{15,0}$		33	0	$39690_3 = \chi_{45+}, \varphi_{41+}$
	16	0	$6480_2 = \chi_{15,1}, \varphi_{15,1}$		34	0	$50220_1 = \chi_{47+}, \varphi_{43+}$
	17	1	5×4		35	0	$58590_1 = \chi_{52+}, \varphi_{48+}$
	18	0	$9765_1 = \chi_{18,0}, \varphi_{18,0}$		36	0	$66960_1 = \chi_{56+}, \varphi_{50+}$

Block 1:	$\varphi_{1,0}$	$\varphi_{6,0}$	$\varphi_{32,1}$	$\varphi_{36,0}$
$1_1 = \chi_{1,0}$	1	.	.	.
$744_1 = \chi_{6,0}$	1	1	.	.
$13671_4 = \chi_{33,1}$	.	.	1	.
$18816_1 = \chi_{40,0}$	.	1	.	1
$31744_1 = \chi_{54,0}$	.	.	1	1

$$\begin{aligned}
 \varphi_{1,0} &= 1_1 \\
 \varphi_{6,0} &= 743_1 \\
 \varphi_{32,1} &= 13671_2 \\
 \varphi_{36,0} &= 18073_1
 \end{aligned}$$

Block 2:	$\varphi_{1,1}$	$\varphi_{6,1}$	$\varphi_{32,0}$	$\varphi_{36,1}$
$1_2 = \chi_{1,1}$	1	.	.	.
$744_2 = \chi_{6,1}$	1	1	.	.
$13671_3 = \chi_{33,0}$	.	.	1	.
$18816_2 = \chi_{40,1}$	.	1	.	1
$31744_2 = \chi_{54,1}$	.	.	1	1

$$\begin{aligned}
 \varphi_{1,1} &= 1_2 \\
 \varphi_{6,1} &= 743_2 \\
 \varphi_{32,0} &= 13671_1 \\
 \varphi_{36,1} &= 18073_2
 \end{aligned}$$

Block 3:	$\varphi_{2,0}$	$\varphi_{4,0}$	$\varphi_{14,0}$	$\varphi_{45,0}$
$62_1 = \chi_{2,0}$	1	.	.	.
$588_1 = \chi_{4,0}$	1	1	.	.
$5952_1 = \chi_{14,0}$	.	1	1	.
$27342_3 = \chi_{49,0}$	.	.	.	1
$32768_1 = \chi_{55,0}$	.	.	1	1

$$\begin{aligned}
\varphi_{2,0} &= 62_1 \\
\varphi_{4,0} &= 526_1 \\
\varphi_{14,0} &= 5426_1 \\
\varphi_{45,0} &= 27342_1
\end{aligned}$$

Block 4:	$\varphi_{2,1}$	$\varphi_{4,1}$	$\varphi_{14,1}$	$\varphi_{45,1}$
$62_2 = \chi_{2,1}$	1	.	.	.
$588_2 = \chi_{4,1}$	1	1	.	.
$5952_2 = \chi_{14,1}$	.	1	1	.
$27342_4 = \chi_{49,1}$	.	.	.	1
$32768_2 = \chi_{55,1}$	.	.	1	1

$$\begin{aligned}
\varphi_{2,1} &= 62_2 \\
\varphi_{4,1} &= 526_2 \\
\varphi_{14,1} &= 5426_2 \\
\varphi_{45,1} &= 27342_2
\end{aligned}$$

Block 5:	$\varphi_{3,0}$	$\varphi_{3,1}$	$\varphi_{35,0}$	$\varphi_{35,1}$
$217_1 = \chi_{3,0}$	1	.	.	.
$217_2 = \chi_{3,1}$	.	1	.	.
$27342_1 = \chi_{34+}$	.	.	1	1
$13888_1 = \chi_{38,0}$	1	.	1	.
$13888_2 = \chi_{38,1}$	.	1	.	1

$$\begin{aligned}
\varphi_{3,0} &= 217_1 \\
\varphi_{3,1} &= 217_2 \\
\varphi_{35,0} &= 13671_7 \\
\varphi_{35,1} &= 13671_8
\end{aligned}$$

Block 6:	$\varphi_{5,0}$	$\varphi_{16,0}$	$\varphi_{34,1}$	$\varphi_{47,1}$
$651_1 = \chi_{5,0}$	1	.	.	.
$9114_1 = \chi_{16,0}$	1	1	.	.
$13671_2 = \chi_{32,1}$	.	.	1	.
$36456_2 = \chi_{58,1}$	.	1	.	1
$41664_2 = \chi_{60,1}$	.	.	1	1

$$\begin{aligned}
\varphi_{5,0} &= 651_1 \\
\varphi_{16,0} &= 8463_1 \\
\varphi_{34,1} &= 13671_6 \\
\varphi_{47,1} &= 27993_2
\end{aligned}$$

Block 7:	$\varphi_{5,1}$	$\varphi_{16,1}$	$\varphi_{34,0}$	$\varphi_{47,0}$
$651_2 = \chi_{5,1}$	1	.	.	.
$9114_2 = \chi_{16,1}$	1	1	.	.
$13671_1 = \chi_{32,0}$	.	.	1	.
$36456_1 = \chi_{58,0}$	.	1	.	1
$41664_1 = \chi_{60,0}$	.	.	1	1

$$\begin{aligned}
\varphi_{5,1} &= 651_2 \\
\varphi_{16,1} &= 8463_2 \\
\varphi_{34,0} &= 13671_5 \\
\varphi_{47,0} &= 27993_1
\end{aligned}$$

Block 14:	$\varphi_{13,0}$	$\varphi_{13,1}$	$\varphi_{33,0}$	$\varphi_{33,1}$
$4557_1 = \chi_{13,0}$	1	.	.	.
$4557_2 = \chi_{13,1}$	.	1	.	.
$27342_2 = \chi_{36+}$	.	.	1	1
$18228_1 = \chi_{39,0}$	1	.	1	.
$18228_2 = \chi_{39,1}$	.	1	.	1

$$\begin{aligned}
\varphi_{13,0} &= 4557_1 \\
\varphi_{13,1} &= 4557_2 \\
\varphi_{33,0} &= 13671_3 \\
\varphi_{33,1} &= 13671_4
\end{aligned}$$

Block 17:	$\varphi_{17,0}$	$\varphi_{17,1}$	$\varphi_{46,0}$	$\varphi_{46,1}$
$9114_3 = \chi_{17,0}$	1	.	.	.
$9114_4 = \chi_{17,1}$	.	1	.	.
$54684_1 = \chi_{50+}$	.	.	1	1
$36456_3 = \chi_{59,0}$	1	.	1	.
$36456_4 = \chi_{59,1}$	.	1	.	1

$$\begin{aligned}
\varphi_{17,0} &= 9114_1 \\
\varphi_{17,1} &= 9114_2 \\
\varphi_{46,0} &= 27342_3 \\
\varphi_{46,1} &= 27342_4
\end{aligned}$$