$L_6(2).2 \pmod 3$

	blocks	defect	matrix
$G:$	1	4	23×10
	2	4	23×10
	3	2	6×2
	4	1	3×2
	5	0	$6480_1 = \chi_{15,0}, \varphi_{12,0}$
	6	0	$6480_2 = \chi_{15,1}, \varphi_{12,1}$
	7	0	$12555_1 = \chi_{30,0}, \varphi_{17,0}$

	blocks	defect	matrix
	8	0	$12555_2 = \chi_{30,1}, \varphi_{17,1}$
	9	2	9×4
	10	0	$39690_1 = \chi_{41+}, \varphi_{21+}$
	11	0	$39690_2 = \chi_{43+}, \varphi_{23+}$
	12	0	$39690_3 = \chi_{45+}, \varphi_{25+}$
	13	0	$50220_1 = \chi_{47+}, \varphi_{27+}$

Block 1:	$\varphi_{1,0}$	$\varphi_{2,0}$	$\varphi_{3,1}$	$\varphi_{4,1}$	$\varphi_{5,0}$	$\varphi_{8,1}$	$\varphi_{11,1}$	$\varphi_{13,1}$	$\varphi_{14,0}$	$\varphi_{20,0}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.
$62_1 = \chi_{2,0}$	1	1	.	.	.	.	.	.	.	.
$217_2 = \chi_{3,1}$	.	.	1	.	.	.	.	.	.	.
$588_2 = \chi_{4,1}$	.	1	.	1	.	.	.	.	.	.
$651_1 = \chi_{5,0}$	.	.	.	.	1	.	.	.	.	.
$744_2 = \chi_{6,1}$	.	.	1	1	.	.	.	.	.	.
$1240_2 = \chi_{7,1}$	1	1	.	1	1	.	.	.	.	.
$4340_2 = \chi_{12,1}$	.	.	1	.	.	1	.	.	.	.
$4557_2 = \chi_{13,1}$	.	.	.	.	.	.	1	.	.	.
$5952_2 = \chi_{14,1}$	.	.	1	1	1	.	1	.	.	.
$9114_2 = \chi_{16,1}$	.	.	.	.	1	.	.	1	.	.
$9114_4 = \chi_{17,1}$	.	.	2	.	.	1	1	.	.	.
$9765_1 = \chi_{18,0}$	.	.	.	.	.	.	.	.	1	.
$9920_2 = \chi_{27,1}$	1	1	1	1	1	.	.	1	.	.
$13020_2 = \chi_{31,1}$	.	.	2	.	.	1	.	1	.	.
$13888_1 = \chi_{38,0}$	.	.	.	.	.	1	.	.	1	.
$18228_1 = \chi_{39,0}$	.	.	.	.	.	.	.	.	.	1
$18816_2 = \chi_{40,1}$	.	1	2	1	1	1	1	1	.	.
$31744_1 = \chi_{54,0}$	1	1	1	.	1	1	.	1	.	1
$32768_1 = \chi_{55,0}$	1	.	.	.	1	1	.	.	1	1
$36456_2 = \chi_{58,1}$	.	.	2	.	1	1	1	1	.	1
$36456_3 = \chi_{59,0}$	.	.	1	.	.	2	.	.	1	1
$41664_1 = \chi_{60,0}$	.	.	1	.	1	2	1	.	1	1

$\varphi_{1,0} = 1_1$
$\varphi_{2,0} = 61_1$
$\varphi_{3,1} = 217_2$
$\varphi_{4,1} = 527_2$
$\varphi_{5,0} = 651_1$
$\varphi_{8,1} = 4123_2$
$\varphi_{11,1} = 4557_2$
$\varphi_{13,1} = 8463_2$
$\varphi_{14,0} = 9765_1$
$\varphi_{20,0} = 18228_1$

Block 2:	$\varphi_{1,1}$	$\varphi_{2,1}$	$\varphi_{3,0}$	$\varphi_{4,0}$	$\varphi_{5,1}$	$\varphi_{8,0}$	$\varphi_{11,0}$	$\varphi_{13,0}$	$\varphi_{14,1}$	$\varphi_{20,1}$
$1_2 = \chi_{1,1}$	1	.	.	.	.	.	.	.	.	.
$62_2 = \chi_{2,1}$	1	1	.	.	.	.	.	.	.	.
$217_1 = \chi_{3,0}$	.	.	1	.	.	.	.	.	.	.
$588_1 = \chi_{4,0}$	.	1	.	1	.	.	.	.	.	.
$651_2 = \chi_{5,1}$	.	.	.	.	1	.	.	.	.	.
$744_1 = \chi_{6,0}$	.	.	1	1	.	.	.	.	.	.
$1240_1 = \chi_{7,0}$	1	1	.	1	1	.	.	.	.	.
$4340_1 = \chi_{12,0}$	.	.	1	.	.	1	.	.	.	.
$4557_1 = \chi_{13,0}$	.	.	.	.	.	.	1	.	.	.
$5952_1 = \chi_{14,0}$	.	.	1	1	1	.	1	.	.	.
$9114_1 = \chi_{16,0}$	.	.	.	.	1	.	.	1	.	.
$9114_3 = \chi_{17,0}$	.	.	2	.	.	1	1	.	.	.
$9765_2 = \chi_{18,1}$	.	.	.	.	.	.	.	.	1	.
$9920_1 = \chi_{27,0}$	1	1	1	1	1	.	.	1	.	.
$13020_1 = \chi_{31,0}$	.	.	2	.	.	1	.	1	.	.
$13888_2 = \chi_{38,1}$	.	.	.	.	.	1	.	.	1	.
$18228_2 = \chi_{39,1}$	.	.	.	.	.	.	.	.	.	1
$18816_1 = \chi_{40,0}$	.	1	2	1	1	1	1	1	.	.
$31744_2 = \chi_{54,1}$	1	1	1	.	1	1	.	1	.	1
$32768_2 = \chi_{55,1}$	1	.	.	.	1	1	.	.	1	1
$36456_1 = \chi_{58,0}$	.	.	2	.	1	1	1	1	.	1
$36456_4 = \chi_{59,1}$	.	.	1	.	.	2	.	.	1	1
$41664_2 = \chi_{60,1}$	.	.	1	.	1	2	1	.	1	1

$\varphi_{1,1} = 1_2$
$\varphi_{2,1} = 61_2$
$\varphi_{3,0} = 217_1$
$\varphi_{4,0} = 527_1$
$\varphi_{5,1} = 651_2$
$\varphi_{8,0} = 4123_1$
$\varphi_{11,0} = 4557_1$
$\varphi_{13,0} = 8463_1$
$\varphi_{14,1} = 9765_2$
$\varphi_{20,1} = 18228_2$

Block 3:	φ_{6+}	φ_{15+}
$2790_1 = \chi_{8+}$	1	.
$19530_1 = \chi_{19+}$	.	1
$19530_2 = \chi_{21+}$	.	1
$19530_3 = \chi_{23+}$	.	1
$19530_4 = \chi_{25+}$	.	1
$22320_1 = \chi_{28+}$	1	1

$\varphi_{6+} = 2790_1$
$\varphi_{15+} = 19530_1$

Block 4:	φ_{9+}	φ_{29+}
$8370_1 = \chi_{10+}$	1	.
$58590_1 = \chi_{52+}$	.	1
$66960_1 = \chi_{56+}$	1	1

$$\begin{aligned} \varphi_{9+} &= 8370_1 \\ \varphi_{29+} &= 58590_1 \end{aligned}$$

Block 9:	$\varphi_{18,0}$	$\varphi_{18,1}$	$\varphi_{19,0}$	$\varphi_{19,1}$
$13671_1 = \chi_{32,0}$	1	.	.	.
$13671_2 = \chi_{32,1}$	.	1	.	.
$13671_3 = \chi_{33,0}$	.	.	1	.
$13671_4 = \chi_{33,1}$	.	.	.	1
$27342_1 = \chi_{34+}$	1	1	.	.
$27342_2 = \chi_{36+}$	.	.	1	1
$27342_3 = \chi_{49,0}$	1	.	1	.
$27342_4 = \chi_{49,1}$	.	1	.	1
$54684_1 = \chi_{50+}$	1	1	1	1

$$\begin{aligned} \varphi_{18,0} &= 13671_1 \\ \varphi_{18,1} &= 13671_2 \\ \varphi_{19,0} &= 13671_3 \\ \varphi_{19,1} &= 13671_4 \end{aligned}$$