

## $L_2(13).2 \pmod{13}$

	blocks	defect	matrix
$G :$	1	1	$13 \times 12$
	2	0	$13_1 = \chi_{7,0}, \varphi_{7,0}$
	3	0	$13_2 = \chi_{7,1}, \varphi_{7,1}$
$2.G :$	4	1	$13 \times 12$

<b>Block 1:</b>	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{2,0}$	$\varphi_{2,1}$	$\varphi_{3,0}$	$\varphi_{3,1}$	$\varphi_{4,0}$	$\varphi_{4,1}$	$\varphi_{5,0}$	$\varphi_{5,1}$	$\varphi_{6,0}$	$\varphi_{6,1}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	.	1	.	.	.	.	.	.	.	.	.	.
$14_1 = \chi_{2+}$	.	.	.	.	.	.	1	1	.	.	.	.
$12_1 = \chi_{4,0}$	.	.	.	.	1	.	.	1	.	.	.	.
$12_2 = \chi_{4,1}$	.	.	.	.	.	1	1	.	.	.	.	.
$12_3 = \chi_{5,0}$	.	.	.	1	.	.	.	.	1	.	.	.
$12_4 = \chi_{5,1}$	.	.	1	.	.	.	.	.	.	1	.	.
$12_5 = \chi_{6,0}$	1	.	.	.	.	.	.	.	.	.	.	1
$12_6 = \chi_{6,1}$	.	1	.	.	.	.	.	.	.	.	1	.
$14_2 = \chi_{8,0}$	.	.	.	.	.	1	.	.	1	.	.	.
$14_3 = \chi_{8,1}$	.	.	.	.	1	.	.	.	.	1	.	.
$14_4 = \chi_{9,0}$	.	.	1	.	.	.	.	.	.	.	.	1
$14_5 = \chi_{9,1}$	.	.	.	1	.	.	.	.	.	.	1	.

$$\begin{array}{ll}
 \varphi_{1,0} = 1_1 & \varphi_{4,0} = 7_1 \\
 \varphi_{1,1} = 1_2 & \varphi_{4,1} = 7_2 \\
 \varphi_{2,0} = 3_1 & \varphi_{5,0} = 9_1 \\
 \varphi_{2,1} = 3_2 & \varphi_{5,1} = 9_2 \\
 \varphi_{3,0} = 5_1 & \varphi_{6,0} = 11_1 \\
 \varphi_{3,1} = 5_2 & \varphi_{6,1} = 11_2
 \end{array}$$

<b>Block 4:</b>	$\varphi_{8,0}$	$\varphi_{8,1}$	$\varphi_{9,0}$	$\varphi_{9,1}$	$\varphi_{10,0}$	$\varphi_{10,1}$	$\varphi_{11,0}$	$\varphi_{11,1}$	$\varphi_{12,0}$	$\varphi_{12,1}$	$\varphi_{13,0}$	$\varphi_{13,1}$
$12_7 = \chi_{10+}$	.	.	.	.	1	1	.	.	.	.	.	.
$12_8 = \chi_{12,0}$	.	.	.	.	.	.	.	.	.	.	1	.
$12_9 = \chi_{12,1}$	.	.	.	.	.	.	.	.	.	.	.	1
$12_{10} = \chi_{13,0}$	.	1	.	.	.	.	.	.	1	.	.	.
$12_{11} = \chi_{13,1}$	1	.	.	.	.	.	.	.	.	1	.	.
$12_{12} = \chi_{14,0}$	.	.	1	.	.	.	.	1	.	.	.	.
$12_{13} = \chi_{14,1}$	.	.	.	1	.	.	1	.	.	.	.	.
$14_6 = \chi_{15,0}$	.	.	1	.	.	.	.	.	.	1	.	.
$14_7 = \chi_{15,1}$	.	.	.	1	.	.	.	.	1	.	.	.
$14_8 = \chi_{16,0}$	.	1	.	.	.	.	.	.	.	.	1	.
$14_9 = \chi_{16,1}$	1	.	.	.	.	.	.	.	.	.	.	1
$14_{10} = \chi_{17,0}$	.	.	.	.	1	.	.	1	.	.	.	.
$14_{11} = \chi_{17,1}$	.	.	.	.	.	1	1	.	.	.	.	.

$$\begin{array}{ll}
\varphi_{8,0} = 2_1 & \varphi_{11,0} = 8_1 \\
\varphi_{8,1} = 2_2 & \varphi_{11,1} = 8_2 \\
\varphi_{9,0} = 4_1 & \varphi_{12,0} = 10_1 \\
\varphi_{9,1} = 4_2 & \varphi_{12,1} = 10_2 \\
\varphi_{10,0} = 6_1 & \varphi_{13,0} = 12_1 \\
\varphi_{10,1} = 6_2 & \varphi_{13,1} = 12_2
\end{array}$$