

$L_2(29).2 \pmod{3}$

	blocks	defect	matrix		blocks	defect	matrix
$G :$	1	1	3×2	$2.G :$	20	1	3×1
	2	1	3×2		21	1	3×1
	3	0	$30_1 = \chi_{2+}, \varphi_{2+}$		22	1	3×1
	4	1	3×1		23	1	3×1
	5	1	3×1		24	1	3×1
	6	1	3×1		25	0	$30_{14} = \chi_{27,0}, \varphi_{17,0}$
	7	1	3×1		26	0	$30_{15} = \chi_{27,1}, \varphi_{17,1}$
	8	0	$30_2 = \chi_{12,0}, \varphi_{7,0}$		27	0	$30_{16} = \chi_{28,0}, \varphi_{18,0}$
	9	0	$30_3 = \chi_{12,1}, \varphi_{7,1}$		28	0	$30_{17} = \chi_{28,1}, \varphi_{18,1}$
	10	0	$30_4 = \chi_{13,0}, \varphi_{8,0}$		29	0	$30_{18} = \chi_{29,0}, \varphi_{19,0}$
	11	0	$30_5 = \chi_{13,1}, \varphi_{8,1}$		30	0	$30_{19} = \chi_{29,1}, \varphi_{19,1}$
	12	0	$30_6 = \chi_{14,0}, \varphi_{9,0}$		31	0	$30_{20} = \chi_{30,0}, \varphi_{20,0}$
	13	0	$30_7 = \chi_{14,1}, \varphi_{9,1}$		32	0	$30_{21} = \chi_{30,1}, \varphi_{20,1}$
	14	0	$30_8 = \chi_{15,0}, \varphi_{10,0}$		33	0	$30_{22} = \chi_{31,0}, \varphi_{21,0}$
	15	0	$30_9 = \chi_{15,1}, \varphi_{10,1}$		34	0	$30_{23} = \chi_{31,1}, \varphi_{21,1}$
	16	0	$30_{10} = \chi_{16,0}, \varphi_{11,0}$		35	0	$30_{24} = \chi_{32,0}, \varphi_{22,0}$
	17	0	$30_{11} = \chi_{16,1}, \varphi_{11,1}$		36	0	$30_{25} = \chi_{32,1}, \varphi_{22,1}$
	18	0	$30_{12} = \chi_{17,0}, \varphi_{12,0}$		37	0	$30_{26} = \chi_{33,0}, \varphi_{23,0}$
	19	0	$30_{13} = \chi_{17,1}, \varphi_{12,1}$		38	0	$30_{27} = \chi_{33,1}, \varphi_{23,1}$

Block 1:	$\varphi_{1,0}$	$\varphi_{4,1}$
$1_1 = \chi_{1,0}$	1	.
$28_2 = \chi_{4,1}$.	1
$29_2 = \chi_{11,1}$	1	1

$$\begin{aligned} \varphi_{1,0} &= 1_1 \\ \varphi_{4,1} &= 28_2 \end{aligned}$$

Block 2:	$\varphi_{1,1}$	$\varphi_{4,0}$
$1_2 = \chi_{1,1}$	1	.
$28_1 = \chi_{4,0}$.	1
$29_1 = \chi_{11,0}$	1	1

$$\begin{aligned} \varphi_{1,1} &= 1_2 \\ \varphi_{4,0} &= 28_1 \end{aligned}$$

Block 4:	$\varphi_{5,0}$
$28_3 = \chi_{5,0}$	1
$28_7 = \chi_{7,0}$	1
$28_{11} = \chi_{9,0}$	1

$$\varphi_{5,0} = 28_3$$

Block 5:	$\varphi_{5,1}$
$28_4 = \chi_{5,1}$	1
$28_8 = \chi_{7,1}$	1
$28_{12} = \chi_{9,1}$	1

$$\varphi_{5,1} = 28_4$$

Block 6:	$\varphi_{6,0}$
$28_5 = \chi_{6,0}$	1
$28_9 = \chi_{8,0}$	1
$28_{13} = \chi_{10,0}$	1

$$\varphi_{6,0} = 28_5$$

Block 7:	$\varphi_{6,1}$
$28_6 = \chi_{6,1}$	1
$28_{10} = \chi_{8,1}$	1
$28_{14} = \chi_{10,1}$	1

$$\varphi_{6,1} = 28_6$$

Block 20:	φ_{13+}
$28_{15} = \chi_{18+}$	1
$28_{16} = \chi_{20,0}$	1
$28_{17} = \chi_{20,1}$	1

$$\varphi_{13+} = 28_7$$

Block 21:	$\varphi_{15,0}$
$28_{18} = \chi_{21,0}$	1
$28_{22} = \chi_{23,0}$	1
$28_{27} = \chi_{25,1}$	1

$$\varphi_{15,0} = 28_8$$

Block 22:	$\varphi_{15,1}$
$28_{19} = \chi_{21,1}$	1
$28_{23} = \chi_{23,1}$	1
$28_{26} = \chi_{25,0}$	1

$$\varphi_{15,1} = 28_9$$

Block 23:	$\varphi_{16,0}$
$28_{20} = \chi_{22,0}$	1
$28_{24} = \chi_{24,0}$	1
$28_{29} = \chi_{26,1}$	1

$$\varphi_{16,0} = 28_{10}$$

Block 24:	$\varphi_{16,1}$
$28_{21} = \chi_{22,1}$	1
$28_{25} = \chi_{24,1}$	1
$28_{28} = \chi_{26,0}$	1

$$\varphi_{16,1} = 28_{11}$$