

$L_2(81).2_2 \pmod{2}$

	blocks	defect	matrix
$2.G :$	1	6	20×2
	2	2	4×1
	3	2	4×1
	4	2	4×1
	5	2	4×1
	6	2	4×1
	7	2	4×1
	8	2	4×1
	9	2	4×1
	10	2	4×1
	11	2	4×1
	12	2	4×1

	blocks	defect	matrix
	13	2	4×1
	14	2	4×1
	15	2	4×1
	16	2	4×1
	17	2	4×1
	18	2	4×1
	19	2	4×1
	20	2	4×1
	21	2	4×1
	22	5	32×1
	23	5	32×1

Block 1:	$\varphi_{1,0}$	φ_{2+}
$1_1 = \chi_{1,0}$	1	.
$1_2 = \chi_{1,1}$	1	.
$82_1 = \chi_{2+}$	2	1
$81_1 = \chi_{24,0}$	1	1
$81_2 = \chi_{24,1}$	1	1
$82_2 = \chi_{25,0}$	2	1
$82_3 = \chi_{25,1}$	2	1
$82_8 = \chi_{28,0}$	2	1
$82_9 = \chi_{28,1}$	2	1
$82_{10} = \chi_{29,0}$	2	1
$82_{11} = \chi_{29,1}$	2	1
$80_{41} = \chi_{44+}$.	1
$82_{40} = \chi_{66,0}$	2	1
$82_{41} = \chi_{66,1}$	2	1
$82_{42} = \chi_{67,0}$	2	1
$82_{43} = \chi_{67,1}$	2	1
$82_{44} = \chi_{68,0}$	2	1
$82_{45} = \chi_{68,1}$	2	1
$82_{46} = \chi_{69,0}$	2	1
$82_{47} = \chi_{69,1}$	2	1

$$\begin{aligned} \varphi_{1,0} &= 1_1 \\ \varphi_{2+} &= 80_1 \end{aligned}$$

Block 2:	$\varphi_{4,0}$
$80_1 = \chi_{4,0}$	1
$80_2 = \chi_{4,1}$	1
$80_{42} = \chi_{46,0}$	1
$80_{43} = \chi_{46,1}$	1

$$\varphi_{4,0} = 80_2$$

Block 3:	$\varphi_{5,0}$
$80_3 = \chi_{5,0}$	1
$80_4 = \chi_{5,1}$	1
$80_{44} = \chi_{47,0}$	1
$80_{45} = \chi_{47,1}$	1

$$\varphi_{5,0} = 80_3$$

Block 4:	$\varphi_{6,0}$
$80_5 = \chi_{6,0}$	1
$80_6 = \chi_{6,1}$	1
$80_{46} = \chi_{48,0}$	1
$80_{47} = \chi_{48,1}$	1

$$\varphi_{6,0} = 80_4$$

Block 5:	$\varphi_{7,0}$
$80_7 = \chi_{7,0}$	1
$80_8 = \chi_{7,1}$	1
$80_{48} = \chi_{49,0}$	1
$80_{49} = \chi_{49,1}$	1

$$\varphi_{7,0} = 80_5$$

Block 6:	$\varphi_{8,0}$
$80_9 = \chi_{8,0}$	1
$80_{10} = \chi_{8,1}$	1
$80_{50} = \chi_{50,0}$	1
$80_{51} = \chi_{50,1}$	1

$$\varphi_{8,0} = 80_6$$

Block 7:	$\varphi_{9,0}$
$80_{11} = \chi_{9,0}$	1
$80_{12} = \chi_{9,1}$	1
$80_{52} = \chi_{51,0}$	1
$80_{53} = \chi_{51,1}$	1

$$\varphi_{9,0} = 80_7$$

Block 8:	$\varphi_{10,0}$
$80_{13} = \chi_{10,0}$	1
$80_{14} = \chi_{10,1}$	1
$80_{54} = \chi_{52,0}$	1
$80_{55} = \chi_{52,1}$	1

$$\varphi_{10,0} = 80_8$$

Block 9:	$\varphi_{11,0}$
$80_{15} = \chi_{11,0}$	1
$80_{16} = \chi_{11,1}$	1
$80_{56} = \chi_{53,0}$	1
$80_{57} = \chi_{53,1}$	1

$$\varphi_{11,0} = 80_9$$

Block 10:	$\varphi_{12,0}$
$80_{17} = \chi_{12,0}$	1
$80_{18} = \chi_{12,1}$	1
$80_{58} = \chi_{54,0}$	1
$80_{59} = \chi_{54,1}$	1

$$\varphi_{12,0} = 80_{10}$$

Block 11:	$\varphi_{13,0}$
$80_{19} = \chi_{13,0}$	1
$80_{20} = \chi_{13,1}$	1
$80_{60} = \chi_{55,0}$	1
$80_{61} = \chi_{55,1}$	1

$$\varphi_{13,0} = 80_{11}$$

Block 12:	$\varphi_{14,0}$
$80_{21} = \chi_{14,0}$	1
$80_{22} = \chi_{14,1}$	1
$80_{62} = \chi_{56,0}$	1
$80_{63} = \chi_{56,1}$	1

$$\varphi_{14,0} = 80_{12}$$

Block 13:	$\varphi_{15,0}$
$80_{23} = \chi_{15,0}$	1
$80_{24} = \chi_{15,1}$	1
$80_{64} = \chi_{57,0}$	1
$80_{65} = \chi_{57,1}$	1

$$\varphi_{15,0} = 80_{13}$$

Block 14:	$\varphi_{16,0}$
$80_{25} = \chi_{16,0}$	1
$80_{26} = \chi_{16,1}$	1
$80_{66} = \chi_{58,0}$	1
$80_{67} = \chi_{58,1}$	1

$$\varphi_{16,0} = 80_{14}$$

Block 15:	$\varphi_{17,0}$
$80_{27} = \chi_{17,0}$	1
$80_{28} = \chi_{17,1}$	1
$80_{68} = \chi_{59,0}$	1
$80_{69} = \chi_{59,1}$	1

$$\varphi_{17,0} = 80_{15}$$

Block 16:	$\varphi_{18,0}$
$80_{29} = \chi_{18,0}$	1
$80_{30} = \chi_{18,1}$	1
$80_{70} = \chi_{60,0}$	1
$80_{71} = \chi_{60,1}$	1

$$\varphi_{18,0} = 80_{16}$$

Block 17:	$\varphi_{19,0}$
$80_{31} = \chi_{19,0}$	1
$80_{32} = \chi_{19,1}$	1
$80_{72} = \chi_{61,0}$	1
$80_{73} = \chi_{61,1}$	1

$$\varphi_{19,0} = 80_{17}$$

Block 18:	$\varphi_{20,0}$
$80_{33} = \chi_{20,0}$	1
$80_{34} = \chi_{20,1}$	1
$80_{74} = \chi_{62,0}$	1
$80_{75} = \chi_{62,1}$	1

$$\varphi_{20,0} = 80_{18}$$

Block 19:	$\varphi_{21,0}$
$80_{35} = \chi_{21,0}$	1
$80_{36} = \chi_{21,1}$	1
$80_{76} = \chi_{63,0}$	1
$80_{77} = \chi_{63,1}$	1

$$\varphi_{21,0} = 80_{19}$$

Block 20:	$\varphi_{22,0}$
$80_{37} = \chi_{22,0}$	1
$80_{38} = \chi_{22,1}$	1
$80_{78} = \chi_{64,0}$	1
$80_{79} = \chi_{64,1}$	1

$$\varphi_{22,0} = 80_{20}$$

Block 21:	$\varphi_{23,0}$
$80_{39} = \chi_{23,0}$	1
$80_{40} = \chi_{23,1}$	1
$80_{80} = \chi_{65,0}$	1
$80_{81} = \chi_{65,1}$	1

$$\varphi_{23,0} = 80_{21}$$

Block 22:	$\varphi_{24,0}$
$82_4 = \chi_{26,0}$	1
$82_5 = \chi_{26,1}$	1
$82_{12} = \chi_{30,0}$	1
$82_{13} = \chi_{30,1}$	1
$82_{16} = \chi_{32,0}$	1
$82_{17} = \chi_{32,1}$	1
$82_{18} = \chi_{33,0}$	1
$82_{19} = \chi_{33,1}$	1
$82_{24} = \chi_{36,0}$	1
$82_{25} = \chi_{36,1}$	1
$82_{26} = \chi_{37,0}$	1
$82_{27} = \chi_{37,1}$	1
$82_{32} = \chi_{40,0}$	1
$82_{33} = \chi_{40,1}$	1
$82_{34} = \chi_{41,0}$	1
$82_{35} = \chi_{41,1}$	1
$82_{48} = \chi_{70,0}$	1
$82_{49} = \chi_{70,1}$	1
$82_{50} = \chi_{71,0}$	1
$82_{51} = \chi_{71,1}$	1
$82_{56} = \chi_{74,0}$	1
$82_{57} = \chi_{74,1}$	1
$82_{58} = \chi_{75,0}$	1
$82_{59} = \chi_{75,1}$	1
$82_{64} = \chi_{78,0}$	1
$82_{65} = \chi_{78,1}$	1
$82_{66} = \chi_{79,0}$	1
$82_{67} = \chi_{79,1}$	1
$82_{72} = \chi_{82,0}$	1
$82_{73} = \chi_{82,1}$	1
$82_{74} = \chi_{83,0}$	1
$82_{75} = \chi_{83,1}$	1

$$\varphi_{24,0} = 82_1$$

Block 23:	$\varphi_{25,0}$
$82_6 = \chi_{27,0}$	1
$82_7 = \chi_{27,1}$	1
$82_{14} = \chi_{31,0}$	1
$82_{15} = \chi_{31,1}$	1
$82_{20} = \chi_{34,0}$	1
$82_{21} = \chi_{34,1}$	1
$82_{22} = \chi_{35,0}$	1
$82_{23} = \chi_{35,1}$	1
$82_{28} = \chi_{38,0}$	1
$82_{29} = \chi_{38,1}$	1
$82_{30} = \chi_{39,0}$	1
$82_{31} = \chi_{39,1}$	1
$82_{36} = \chi_{42,0}$	1
$82_{37} = \chi_{42,1}$	1
$82_{38} = \chi_{43,0}$	1
$82_{39} = \chi_{43,1}$	1
$82_{52} = \chi_{72,0}$	1
$82_{53} = \chi_{72,1}$	1
$82_{54} = \chi_{73,0}$	1
$82_{55} = \chi_{73,1}$	1
$82_{60} = \chi_{76,0}$	1
$82_{61} = \chi_{76,1}$	1
$82_{62} = \chi_{77,0}$	1
$82_{63} = \chi_{77,1}$	1
$82_{68} = \chi_{80,0}$	1
$82_{69} = \chi_{80,1}$	1
$82_{70} = \chi_{81,0}$	1
$82_{71} = \chi_{81,1}$	1
$82_{76} = \chi_{84,0}$	1
$82_{77} = \chi_{84,1}$	1
$82_{78} = \chi_{85,0}$	1
$82_{79} = \chi_{85,1}$	1

$$\varphi_{25,0} = 82_2$$