

$L_4(4).2_1 \pmod{2}$

	blocks	defect	matrix
$G :$	1	13	$61 \times 35$
	2	1	$2 \times 1$

<b>Block 1:</b>	$\varphi_{1,0}$	$\varphi_{2+}$	$\varphi_{3+}$	$\varphi_{6+}$	$\varphi_{8+}$	$\varphi_{10,0}$	$\varphi_{11,0}$	$\varphi_{12+}$	$\varphi_{14+}$	$\varphi_{15+}$	$\varphi_{18+}$	$\varphi_{19+}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	1	.	.	.	.	.	.	.	.	.	.	.
$84_1 = \chi_{2,0}$	.	1	1	.	.	1	1	.	.	.	.	.
$84_2 = \chi_{2,1}$	.	1	1	.	.	1	1	.	.	.	.	.
$170_1 = \chi_{51+}$	2	1	1	2	.	.	.	1	.	.	1	1
$378_1 = \chi_{52+}$	2	1	1	1	1	.	.	.	1	1	.	.
$2142_1 = \chi_{57+}$	6	2	3	5	3	2	.	3	2	3	1	2
$2142_2 = \chi_{56+}$	6	3	2	5	3	.	2	3	3	2	2	1
$2142_3 = \chi_{55+}$	6	4	4	5	3	2	2	.	1	1	1	1
$2856_1 = \chi_{66+}$	8	4	4	4	2	.	.	1	2	2	2	2
$3400_1 = \chi_{65+}$	8	4	4	6	4	2	2	3	3	3	2	2
$5670_1 = \chi_{42+}$	10	3	2	7	4	.	.	6	4	4	3	5
$5670_2 = \chi_{45+}$	10	6	7	9	6	4	2	2	4	3	2	2
$5670_3 = \chi_{43+}$	10	7	6	9	6	2	4	2	3	4	2	2
$5670_4 = \chi_{46+}$	10	2	3	7	4	.	.	6	4	4	5	3
$5670_5 = \chi_{36+}$	6	3	8	5	3	4	.	3	3	4	1	3
$5670_6 = \chi_{35+}$	10	4	4	3	2	.	.	1	3	2	1	4
$5670_7 = \chi_{37+}$	10	4	4	3	2	.	.	1	2	3	4	1
$5670_8 = \chi_{38+}$	6	8	3	5	3	.	4	3	4	3	3	1
$5670_9 = \chi_{7+}$	14	4	4	10	10	4	4	.	1	1	2	2
$5670_{10} = \chi_{9+}$	14	4	4	10	6	.	.	6	5	5	4	4
$6048_1 = \chi_{61+}$	20	5	5	10	9	2	2	.	1	1	4	4
$6426_1 = \chi_{54+}$	14	5	5	11	8	2	2	6	5	5	4	4
$7650_1 = \chi_{18+}$	18	8	8	12	8	2	2	5	6	6	4	4
$7650_2 = \chi_{19+}$	18	7	6	12	10	4	4	.	1	2	4	3
$7650_3 = \chi_{20+}$	10	4	6	8	4	2	.	7	5	6	3	5
$7650_4 = \chi_{21+}$	14	7	5	6	5	.	2	3	5	5	5	1
$7650_5 = \chi_{22+}$	14	5	7	6	5	2	.	3	5	5	1	5
$7650_6 = \chi_{23+}$	10	6	4	8	4	.	2	7	6	5	5	3
$7650_7 = \chi_{24+}$	18	6	7	12	10	4	4	.	2	1	3	4
$7650_8 = \chi_{13+}$	14	6	5	12	7	.	2	6	4	5	6	4
$7650_9 = \chi_{16+}$	14	5	6	12	7	2	.	6	5	4	4	6
$8568_1 = \chi_{79+}$	16	7	7	7	5	2	.	4	6	5	2	6
$8568_2 = \chi_{74+}$	16	7	7	7	5	.	2	4	5	6	6	2
$8568_3 = \chi_{64+}$	12	6	6	11	6	2	2	6	4	4	5	5
$10710_1 = \chi_{71+}$	26	10	10	16	13	4	4	2	5	5	5	5
$10710_2 = \chi_{58+}$	18	7	10	14	9	4	2	7	7	6	5	6
$10710_3 = \chi_{59+}$	18	10	7	14	9	2	4	7	6	7	6	5
$10880_1 = \chi_{69+}$	16	6	6	4	4	.	.	4	6	6	4	4
$3213_1 = \chi_{53,0}$	5	2	4	4	2	2	.	2	2	2	1	2

(Block 1:)	$\varphi_{22,0}$	$\varphi_{23+}$	$\varphi_{25+}$	$\varphi_{27+}$	$\varphi_{29+}$	$\varphi_{31+}$	$\varphi_{32+}$	$\varphi_{33+}$	$\varphi_{37+}$	$\varphi_{39+}$	$\varphi_{40+}$
$1_1 = \chi_{1,0}$	.	.	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	.	.	.	.	.	.	.	.	.	.	.
$84_1 = \chi_{2,0}$	1	.	.	.	.	.	.	.	.	.	.
$84_2 = \chi_{2,1}$	1	.	.	.	.	.	.	.	.	.	.
$170_1 = \chi_{51+}$	.	.	.	.	.	.	.	.	.	.	.
$378_1 = \chi_{52+}$	2	.	.	.	.	.	.	.	1	.	.
$2142_1 = \chi_{57+}$	2	1	.	.	1	.	.	.	2	.	1
$2142_2 = \chi_{56+}$	2	.	1	.	.	.	.	1	2	1	.
$2142_3 = \chi_{55+}$	4	1	1	1	.	1	1	.	.	1	1
$2856_1 = \chi_{66+}$	2	2	2	.	1	1	1	1	2	.	.
$3400_1 = \chi_{65+}$	2	1	1	.	1	.	.	1	2	1	1
$5670_1 = \chi_{42+}$	.	1	.	.	2	1	.	1	2	.	1
$5670_2 = \chi_{45+}$	4	2	3	2	.	1	2	1	2	2	2
$5670_3 = \chi_{43+}$	4	3	2	2	1	2	1	.	2	2	2
$5670_4 = \chi_{46+}$	.	.	1	.	1	.	1	2	2	1	.
$5670_5 = \chi_{36+}$	4	3	.	.	4	1	.	.	2	.	1
$5670_6 = \chi_{35+}$	4	2	3	.	1	1	3	.	1	.	.
$5670_7 = \chi_{37+}$	4	3	2	.	.	3	1	1	1	.	.
$5670_8 = \chi_{38+}$	4	.	3	.	.	.	1	4	2	1	.
$5670_9 = \chi_{7+}$	2	1	1	3	.	1	1	.	1	3	3
$5670_{10} = \chi_{9+}$	2	1	1	1	1	1	1	1	3	1	1
$6048_1 = \chi_{61+}$	2	2	2	2	1	2	2	1	1	2	2
$6426_1 = \chi_{54+}$	2	1	1	2	1	1	1	1	3	2	2
$7650_1 = \chi_{18+}$	6	3	3	2	1	2	2	1	4	2	2
$7650_2 = \chi_{19+}$	2	3	3	3	.	2	2	1	1	3	3
$7650_3 = \chi_{20+}$	2	2	.	.	4	1	.	1	3	.	1
$7650_4 = \chi_{21+}$	6	3	3	.	.	3	1	2	3	1	.
$7650_5 = \chi_{22+}$	6	3	3	.	2	1	3	.	3	.	1
$7650_6 = \chi_{23+}$	2	.	2	.	1	.	1	4	3	1	.
$7650_7 = \chi_{24+}$	2	3	3	3	1	2	2	.	1	3	3
$7650_8 = \chi_{13+}$	2	1	2	1	1	1	2	2	2	2	1
$7650_9 = \chi_{16+}$	2	2	1	1	2	2	1	1	2	1	2
$8568_1 = \chi_{79+}$	6	3	3	.	2	1	3	1	3	.	1
$8568_2 = \chi_{74+}$	6	3	3	.	1	3	1	2	3	1	.
$8568_3 = \chi_{64+}$	2	1	1	1	2	1	1	2	2	1	1
$10710_1 = \chi_{71+}$	6	5	5	3	1	3	3	1	4	3	3
$10710_2 = \chi_{58+}$	4	4	1	2	4	3	1	1	3	2	3
$10710_3 = \chi_{59+}$	4	1	4	2	1	1	3	4	3	3	2
$10880_1 = \chi_{69+}$	8	3	3	.	1	3	3	1	2	.	.
$3213_1 = \chi_{53,0}$	2	2	.	.	2	1	.	.	1	.	1

(Block 1:)	$\varphi_{43,0}$	$\varphi_{44+}$	$\varphi_{46+}$	$\varphi_{48+}$	$\varphi_{49+}$	$\varphi_{52+}$	$\varphi_{54,0}$	$\varphi_{55+}$	$\varphi_{56,0}$	$\varphi_{58+}$	$\varphi_{60+}$
$1_1 = \chi_{1,0}$	.	.	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	.	.	.	.	.	.	.	.	.	.	.
$84_1 = \chi_{2,0}$	.	.	.	.	.	.	.	.	.	.	.
$84_2 = \chi_{2,1}$	.	.	.	.	.	.	.	.	.	.	.
$170_1 = \chi_{51+}$	.	.	.	.	.	.	.	.	.	.	.
$378_1 = \chi_{52+}$	.	.	.	.	.	.	.	.	.	.	.
$2142_1 = \chi_{57+}$	.	.	.	1	.	.	.	.	.	.	.
$2142_2 = \chi_{56+}$	.	.	.	.	1	.	.	.	.	.	.
$2142_3 = \chi_{55+}$	2	.	.	.	.	.	.	.	.	.	.
$2856_1 = \chi_{66+}$	.	.	.	.	.	.	.	1	.	.	.
$3400_1 = \chi_{65+}$	.	.	.	1	1	.	.	.	.	.	.
$5670_1 = \chi_{42+}$	.	1	.	1	1	1	2	.	.	.	.
$5670_2 = \chi_{45+}$	2	.	.	.	1	.	.	1	.	.	.
$5670_3 = \chi_{43+}$	2	.	.	1	.	.	.	1	.	.	.
$5670_4 = \chi_{46+}$	.	.	1	1	1	1	.	.	2	.	.
$5670_5 = \chi_{36+}$	.	2	.	2	.	.	2	.	.	.	.
$5670_6 = \chi_{35+}$	.	.	.	.	.	.	.	1	.	.	1
$5670_7 = \chi_{37+}$	.	.	.	.	.	.	.	1	.	.	.
$5670_8 = \chi_{38+}$	.	.	2	.	2	.	.	.	2	.	.
$5670_9 = \chi_{7+}$	2	.	.	.	.	.	.	.	.	1	.
$5670_{10} = \chi_{9+}$	2	.	.	1	1	1	.	.	.	.	.
$6048_1 = \chi_{61+}$	2	.	.	.	.	.	.	.	.	1	.
$6426_1 = \chi_{54+}$	2	.	.	1	1	1	.	.	.	.	.
$7650_1 = \chi_{18+}$	2	.	.	1	1	.	.	1	.	.	.
$7650_2 = \chi_{19+}$	2	.	.	.	.	.	.	1	.	1	.
$7650_3 = \chi_{20+}$	.	2	.	2	1	1	2	.	.	.	.
$7650_4 = \chi_{21+}$	.	.	.	.	1	.	.	1	.	.	.
$7650_5 = \chi_{22+}$	.	.	.	1	.	.	.	1	.	.	1
$7650_6 = \chi_{23+}$	.	.	2	1	2	1	.	.	2	.	.
$7650_7 = \chi_{24+}$	2	.	.	.	.	.	.	1	.	1	.
$7650_8 = \chi_{13+}$	2	.	1	1	1	1	.	.	2	.	.
$7650_9 = \chi_{16+}$	2	1	.	1	1	1	2	.	.	.	.
$8568_1 = \chi_{79+}$	.	.	.	1	1	.	.	1	.	.	1
$8568_2 = \chi_{74+}$	.	.	.	1	1	.	.	1	.	.	.
$8568_3 = \chi_{64+}$	2	1	1	1	1	1	2	.	2	.	.
$10710_1 = \chi_{71+}$	2	.	.	.	.	.	.	2	.	1	.
$10710_2 = \chi_{58+}$	2	2	.	2	1	1	2	.	.	.	.
$10710_3 = \chi_{59+}$	2	.	2	1	2	1	.	.	2	.	.
$10880_1 = \chi_{69+}$	.	.	.	1	1	.	.	1	.	.	1
$3213_1 = \chi_{53,0}$	.	1	.	1	.	.	1	.	.	.	.

(Block 1:)	$\varphi_{62+}$
$1_1 = \chi_{1,0}$	.
$1_2 = \chi_{1,1}$	.
$84_1 = \chi_{2,0}$	.
$84_2 = \chi_{2,1}$	.
$170_1 = \chi_{51+}$	.
$378_1 = \chi_{52+}$	.
$2142_1 = \chi_{57+}$	.
$2142_2 = \chi_{56+}$	.
$2142_3 = \chi_{55+}$	.
$2856_1 = \chi_{66+}$	.
$3400_1 = \chi_{65+}$	.
$5670_1 = \chi_{42+}$	.
$5670_2 = \chi_{45+}$	.
$5670_3 = \chi_{43+}$	.
$5670_4 = \chi_{46+}$	.
$5670_5 = \chi_{36+}$	.
$5670_6 = \chi_{35+}$	.
$5670_7 = \chi_{37+}$	1
$5670_8 = \chi_{38+}$	.
$5670_9 = \chi_{7+}$	.
$5670_{10} = \chi_{9+}$	.
$6048_1 = \chi_{61+}$	.
$6426_1 = \chi_{54+}$	.
$7650_1 = \chi_{18+}$	.
$7650_2 = \chi_{19+}$	.
$7650_3 = \chi_{20+}$	.
$7650_4 = \chi_{21+}$	1
$7650_5 = \chi_{22+}$	.
$7650_6 = \chi_{23+}$	.
$7650_7 = \chi_{24+}$	.
$7650_8 = \chi_{13+}$	.
$7650_9 = \chi_{16+}$	.
$8568_1 = \chi_{79+}$	.
$8568_2 = \chi_{74+}$	1
$8568_3 = \chi_{64+}$	.
$10710_1 = \chi_{71+}$	.
$10710_2 = \chi_{58+}$	.
$10710_3 = \chi_{59+}$	.
$10880_1 = \chi_{69+}$	1
$3213_1 = \chi_{53,0}$	.

(Block 1:)	$\varphi_{1,0}$	$\varphi_{2+}$	$\varphi_{3+}$	$\varphi_{6+}$	$\varphi_{8+}$	$\varphi_{10,0}$	$\varphi_{11,0}$	$\varphi_{12+}$	$\varphi_{14+}$	$\varphi_{15+}$	$\varphi_{18+}$	$\varphi_{19+}$
$3213_2 = \chi_{53,1}$	5	2	4	4	2	2	.	2	2	2	1	2
$3825_1 = \chi_{12,0}$	5	3	5	4	3	3	2	1	2	2	1	1
$272_1 = \chi_{3,0}$	.	1	1	2	.	.	.	.	.	.	.	.
$3825_2 = \chi_{15,0}$	5	5	3	4	3	2	3	1	2	2	1	1
$3825_3 = \chi_{15,1}$	5	5	3	4	3	2	3	1	2	2	1	1
$272_2 = \chi_{3,1}$	.	1	1	2	.	.	.	.	.	.	.	.
$1344_1 = \chi_{5,0}$	4	1	1	4	2	.	.	1	.	.	2	2
$3213_3 = \chi_{11,0}$	5	4	4	5	3	2	2	1	2	2	1	1
$1344_2 = \chi_{5,1}$	4	1	1	4	2	.	.	1	.	.	2	2
$3213_4 = \chi_{82,0}$	5	4	2	4	2	.	2	2	2	2	2	1
$5712_1 = \chi_{33,0}$	12	4	4	8	7	3	3	.	1	1	2	2
$3213_5 = \chi_{82,1}$	5	4	2	4	2	.	2	2	2	2	2	1
$3213_6 = \chi_{11,1}$	5	4	4	5	3	2	2	1	2	2	1	1
$7140_1 = \chi_{34,0}$	8	4	4	7	4	1	1	5	4	4	3	3
$357_1 = \chi_{4,0}$	1	.	.	1	1	.	.	1	1	1	.	.
$1785_1 = \chi_{6,0}$	5	2	2	3	3	1	1	.	1	1	1	1
$357_2 = \chi_{4,1}$	1	.	.	1	1	.	.	1	1	1	.	.
$1785_2 = \chi_{6,1}$	5	2	2	3	3	1	1	.	1	1	1	1
$3825_4 = \chi_{12,1}$	5	3	5	4	3	3	2	1	2	2	1	1
$5712_2 = \chi_{33,1}$	12	4	4	8	7	3	3	.	1	1	2	2
$7140_2 = \chi_{34,1}$	8	4	4	7	4	1	1	5	4	4	3	3

<b>(Block 1:)</b>	$\varphi_{22,0}$	$\varphi_{23+}$	$\varphi_{25+}$	$\varphi_{27+}$	$\varphi_{29+}$	$\varphi_{31+}$	$\varphi_{32+}$	$\varphi_{33+}$	$\varphi_{37+}$	$\varphi_{39+}$	$\varphi_{40+}$
$3213_2 = \chi_{53,1}$	2	2	.	.	2	1	.	.	1	.	1
$3825_1 = \chi_{12,0}$	3	2	.	1	2	1	.	.	1	1	1
$272_1 = \chi_{3,0}$	1	.	.	.	.	.	.	.	.	.	.
$3825_2 = \chi_{15,0}$	3	.	2	1	.	.	1	2	1	1	1
$3825_3 = \chi_{15,1}$	3	.	2	1	.	.	1	2	1	1	1
$272_2 = \chi_{3,1}$	1	.	.	.	.	.	.	.	.	.	.
$1344_1 = \chi_{5,0}$	.	.	.	.	.	.	.	.	.	.	.
$3213_3 = \chi_{11,0}$	3	2	2	1	.	1	1	.	1	1	1
$1344_2 = \chi_{5,1}$	.	.	.	.	.	.	.	.	.	.	.
$3213_4 = \chi_{82,0}$	2	.	2	.	.	.	1	2	1	1	.
$5712_1 = \chi_{33,0}$	1	2	2	2	.	1	1	.	1	2	2
$3213_5 = \chi_{82,1}$	2	.	2	.	.	.	1	2	1	1	.
$3213_6 = \chi_{11,1}$	3	2	2	1	.	1	1	.	1	1	1
$7140_1 = \chi_{34,0}$	1	1	1	1	2	1	1	2	2	1	1
$357_1 = \chi_{4,0}$	1	.	.	.	.	.	.	.	1	.	.
$1785_1 = \chi_{6,0}$	2	1	1	1	.	1	1	.	.	1	1
$357_2 = \chi_{4,1}$	1	.	.	.	.	.	.	.	1	.	.
$1785_2 = \chi_{6,1}$	2	1	1	1	.	1	1	.	.	1	1
$3825_4 = \chi_{12,1}$	3	2	.	1	2	1	.	.	1	1	1
$5712_2 = \chi_{33,1}$	1	2	2	2	.	1	1	.	1	2	2
$7140_2 = \chi_{34,1}$	1	1	1	1	2	1	1	2	2	1	1

(Block 1:)	$\varphi_{43,0}$	$\varphi_{44+}$	$\varphi_{46+}$	$\varphi_{48+}$	$\varphi_{49+}$	$\varphi_{52+}$	$\varphi_{54,0}$	$\varphi_{55+}$	$\varphi_{56,0}$	$\varphi_{58+}$	$\varphi_{60+}$
$3213_2 = \chi_{53,1}$	.	1	.	1	.	.	1	.	.	.	.
$3825_1 = \chi_{12,0}$	1	1	.	1	.	.	1	.	.	.	.
$272_1 = \chi_{3,0}$	1	.	.	.	.	.	.	.	.	.	.
$3825_2 = \chi_{15,0}$	1	.	1	.	1	.	.	.	1	.	.
$3825_3 = \chi_{15,1}$	1	.	1	.	1	.	.	.	1	.	.
$272_2 = \chi_{3,1}$	1	.	.	.	.	.	.	.	.	.	.
$1344_1 = \chi_{5,0}$	1	.	.	.	.	.	1	.	1	.	.
$3213_3 = \chi_{11,0}$	1	.	.	.	.	.	.	1	.	.	.
$1344_2 = \chi_{5,1}$	1	.	.	.	.	.	1	.	1	.	.
$3213_4 = \chi_{82,0}$	.	.	1	.	1	.	.	.	1	.	.
$5712_1 = \chi_{33,0}$	1	.	.	.	.	.	.	1	.	1	.
$3213_5 = \chi_{82,1}$	.	.	1	.	1	.	.	.	1	.	.
$3213_6 = \chi_{11,1}$	1	.	.	.	.	.	.	1	.	.	.
$7140_1 = \chi_{34,0}$	1	1	1	1	1	1	1	.	1	.	.
$357_1 = \chi_{4,0}$	.	.	.	.	.	.	.	.	.	.	.
$1785_1 = \chi_{6,0}$	1	.	.	.	.	.	.	.	.	.	.
$357_2 = \chi_{4,1}$	.	.	.	.	.	.	.	.	.	.	.
$1785_2 = \chi_{6,1}$	1	.	.	.	.	.	.	.	.	.	.
$3825_4 = \chi_{12,1}$	1	1	.	1	.	.	1	.	.	.	.
$5712_2 = \chi_{33,1}$	1	.	.	.	.	.	.	1	.	1	.
$7140_2 = \chi_{34,1}$	1	1	1	1	1	1	1	.	1	.	.

<b>(Block 1:)</b>		$\varphi_{62+}$	$\varphi_{1,0} = 1_1$
		·	$\varphi_{2+} = 8_1$
$3213_2 = \chi_{53,1}$		·	$\varphi_{3+} = 8_2$
$3825_1 = \chi_{12,0}$		·	$\varphi_{6+} = 12_1$
$272_1 = \chi_{3,0}$		·	$\varphi_{8+} = 28_1$
$3825_2 = \chi_{15,0}$		·	$\varphi_{10,0} = 16_1$
$3825_3 = \chi_{15,1}$		·	$\varphi_{11,0} = 16_2$
$272_2 = \chi_{3,1}$		·	$\varphi_{12+} = 32_1$
$1344_1 = \chi_{5,0}$		·	$\varphi_{14+} = 40_1$
$3213_3 = \chi_{11,0}$		·	$\varphi_{15+} = 40_2$
$1344_2 = \chi_{5,1}$		·	$\varphi_{18+} = 48_1$
$3213_4 = \chi_{82,0}$		·	$\varphi_{19+} = 48_2$
$5712_1 = \chi_{33,0}$		·	$\varphi_{22,0} = 36_1$
$3213_5 = \chi_{82,1}$		·	$\varphi_{23+} = 112_1$
$3213_6 = \chi_{11,1}$		·	$\varphi_{25+} = 112_2$
$7140_1 = \chi_{34,0}$		·	$\varphi_{27+} = 128_1$
$357_1 = \chi_{4,0}$		·	$\varphi_{29+} = 160_1$
$1785_1 = \chi_{6,0}$		·	$\varphi_{31+} = 160_2$
$357_2 = \chi_{4,1}$		·	$\varphi_{32+} = 160_3$
$1785_2 = \chi_{6,1}$		·	$\varphi_{33+} = 160_4$
$3825_4 = \chi_{12,1}$		·	$\varphi_{37+} = 168_1$
$5712_2 = \chi_{33,1}$		·	$\varphi_{39+} = 240_1$
$7140_2 = \chi_{34,1}$		·	$\varphi_{40+} = 240_2$
		·	$\varphi_{43,0} = 196_1$
		·	$\varphi_{44+} = 512_1$
		·	$\varphi_{46+} = 512_2$
		·	$\varphi_{48+} = 560_1$
		·	$\varphi_{49+} = 560_2$
		·	$\varphi_{52+} = 768_1$
		·	$\varphi_{54,0} = 400_1$
		·	$\varphi_{55+} = 800_1$
		·	$\varphi_{56,0} = 400_2$
		·	$\varphi_{58+} = 1792_1$
		·	$\varphi_{60+} = 2560_1$
		·	$\varphi_{62+} = 2560_2$

<b>Block 2:</b>		$\varphi_{64,0}$	
$4096_1 = \chi_{32,0}$		1	$\varphi_{64,0} = 4096_1$
$4096_2 = \chi_{32,1}$		1	