

$L_4(4).2_3 \pmod{2}$

	blocks	defect	matrix
$G :$	1 2	13 1	70×35 2×1

Block 1:	$\varphi_{1,0}$	φ_{2+}	φ_{3+}	φ_{6+}	φ_{8+}	φ_{10+}	$\varphi_{12,0}$	$\varphi_{13,0}$	φ_{14+}	φ_{16+}	φ_{18+}	φ_{20+}
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	1	.	.	.	.	.	.	.	.	.	.	.
$378_1 = \chi_{52+}$	2	1	1	1	1	.	.	.	1	1	.	.
$2142_1 = \chi_{55+}$	6	4	4	5	3	2	.	.	1	1	1	1
$2142_2 = \chi_{56+}$	6	3	2	5	3	1	4	2	2	3	2	1
$2142_3 = \chi_{76+}$	6	2	3	5	3	1	2	4	3	2	1	2
$5670_1 = \chi_{43+}$	10	7	6	9	6	3	2	2	3	4	3	1
$5670_2 = \chi_{45+}$	10	6	7	9	6	3	2	2	4	3	1	3
$5670_3 = \chi_{47+}$	10	1	4	7	4	.	4	8	4	4	2	6
$5670_4 = \chi_{42+}$	10	4	1	7	4	.	8	4	4	4	6	2
$5670_5 = \chi_{37+}$	10	3	5	3	2	.	.	2	4	1	.	5
$5670_6 = \chi_{35+}$	10	5	3	3	2	.	2	.	1	4	5	.
$5670_7 = \chi_{39+}$	6	5	6	5	3	2	2	4	4	3	1	3
$5670_8 = \chi_{36+}$	6	6	5	5	3	2	4	2	3	4	3	1
$5670_9 = \chi_{7+}$	14	4	4	10	10	4	.	.	1	1	2	2
$5670_{10} = \chi_{9+}$	14	4	4	10	6	.	6	6	5	5	4	4
$6048_1 = \chi_{61+}$	20	5	5	10	9	2	.	.	1	1	4	4
$6426_1 = \chi_{53+}$	10	6	6	8	4	2	4	4	4	4	3	3
$6426_2 = \chi_{54+}$	14	5	5	11	8	2	6	6	5	5	4	4
$7650_1 = \chi_{12+}$	10	8	8	8	6	5	2	2	4	4	2	2
$7650_2 = \chi_{14+}$	14	8	3	12	7	1	8	4	4	5	7	3
$7650_3 = \chi_{13+}$	14	3	8	12	7	1	4	8	5	4	3	7
$7650_4 = \chi_{21+}$	14	5	7	6	5	1	2	4	6	4	.	6
$7650_5 = \chi_{20+}$	10	5	5	8	4	1	8	6	5	6	4	4
$7650_6 = \chi_{19+}$	18	7	6	12	10	4	.	.	1	2	5	2
$7650_7 = \chi_{26+}$	18	6	7	12	10	4	.	.	2	1	2	5
$7650_8 = \chi_{27+}$	10	5	5	8	4	1	6	8	6	5	4	4
$7650_9 = \chi_{28+}$	14	7	5	6	5	1	4	2	4	6	6	.
$8568_1 = \chi_{64+}$	12	6	6	11	6	2	6	6	4	4	5	5
$8568_2 = \chi_{74+}$	16	6	8	7	5	1	4	4	6	5	1	7
$8568_3 = \chi_{79+}$	16	8	6	7	5	1	4	4	5	6	7	1
$10710_1 = \chi_{71+}$	26	10	10	16	13	4	2	2	5	5	5	5
$10710_2 = \chi_{58+}$	18	9	8	14	9	3	8	6	6	7	6	5
$10710_3 = \chi_{75+}$	18	8	9	14	9	3	6	8	7	6	5	6
$84_1 = \chi_{2,0}$	.	1	1	.	.	1	.	.	.	.	.	.
$85_1 = \chi_{51,0}$	1	1	.	1	.	.	1	.	.	.	1	.
$85_2 = \chi_{60,0}$	1	.	1	1	.	.	.	1	.	.	.	1
$272_1 = \chi_{3,0}$	.	1	1	2	.	.	.	.	.	.	.	.
$357_1 = \chi_{4,0}$	1	.	.	1	1	.	1	1	1	1	.	.
$1344_1 = \chi_{5,0}$	4	1	1	4	2	.	1	1	.	.	2	2

(Block 1:)	$\varphi_{43,0}$	φ_{44+}	φ_{45+}	φ_{48+}	φ_{49+}	φ_{52+}	φ_{54+}	$\varphi_{55,0}$	$\varphi_{57,0}$	φ_{58+}	φ_{60+}
$1_1 = \chi_{1,0}$	.	.	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	.	.	.	.	.	.	.	.	.	.	.
$378_1 = \chi_{52+}$	.	.	.	.	.	.	.	.	.	.	.
$2142_1 = \chi_{55+}$	2	.	.	.	.	.	.	.	.	.	.
$2142_2 = \chi_{56+}$	.	.	.	1	.	.	.	.	.	.	.
$2142_3 = \chi_{76+}$	.	.	.	.	1	.	.	.	.	.	.
$5670_1 = \chi_{43+}$	2	.	.	.	1	.	.	2	.	.	.
$5670_2 = \chi_{45+}$	2	.	.	1	.	.	.	.	2	.	.
$5670_3 = \chi_{47+}$	.	.	1	1	1	1	1	.	.	.	.
$5670_4 = \chi_{42+}$	.	1	.	1	1	1	1	.	.	.	.
$5670_5 = \chi_{37+}$	.	.	.	.	.	.	.	.	2	.	1
$5670_6 = \chi_{35+}$	.	.	.	.	.	.	.	2	.	.	.
$5670_7 = \chi_{39+}$	.	1	1	1	1	.	1	.	.	.	.
$5670_8 = \chi_{36+}$	.	1	1	1	1	.	1	.	.	.	.
$5670_9 = \chi_{7+}$	2	.	.	.	.	.	.	.	.	1	.
$5670_{10} = \chi_{9+}$	2	.	.	1	1	1	.	.	.	.	.
$6048_1 = \chi_{61+}$	2	.	.	.	.	.	.	.	.	1	.
$6426_1 = \chi_{53+}$	.	1	1	1	1	.	1	.	.	.	.
$6426_2 = \chi_{54+}$	2	.	.	1	1	1	.	.	.	.	.
$7650_1 = \chi_{12+}$	2	1	1	1	1	.	1	.	.	.	.
$7650_2 = \chi_{14+}$	2	1	.	1	1	1	1	.	.	.	.
$7650_3 = \chi_{13+}$	2	.	1	1	1	1	1	.	.	.	.
$7650_4 = \chi_{21+}$	.	.	.	1	.	.	.	.	2	.	1
$7650_5 = \chi_{20+}$	.	1	1	2	1	1	1	.	.	.	.
$7650_6 = \chi_{19+}$	2	.	.	.	.	.	.	2	.	1	.
$7650_7 = \chi_{26+}$	2	.	.	.	.	.	.	.	2	1	.
$7650_8 = \chi_{27+}$	.	1	1	1	2	1	1	.	.	.	.
$7650_9 = \chi_{28+}$	.	.	.	.	1	.	.	2	.	.	.
$8568_1 = \chi_{64+}$	2	1	1	1	1	1	2	.	.	.	.
$8568_2 = \chi_{74+}$	.	.	.	2	.	.	.	.	2	.	1
$8568_3 = \chi_{79+}$	.	.	.	.	2	.	.	2	.	.	.
$10710_1 = \chi_{71+}$	2	.	.	.	.	.	.	2	2	1	.
$10710_2 = \chi_{58+}$	2	1	1	2	1	1	1	.	.	.	.
$10710_3 = \chi_{75+}$	2	1	1	1	2	1	1	.	.	.	.
$84_1 = \chi_{2,0}$	.	.	.	.	.	.	.	.	.	.	.
$85_1 = \chi_{51,0}$	.	.	.	.	.	.	.	.	.	.	.
$85_2 = \chi_{60,0}$	.	.	.	.	.	.	.	.	.	.	.
$272_1 = \chi_{3,0}$	1	.	.	.	.	.	.	.	.	.	.
$357_1 = \chi_{4,0}$	.	.	.	.	.	.	.	.	.	.	.
$1344_1 = \chi_{5,0}$	1	.	.	.	.	.	1	.	.	.	.

(Block 1:)	φ_{61+}
$1_1 = \chi_{1,0}$.
$1_2 = \chi_{1,1}$.
$378_1 = \chi_{52+}$.
$2142_1 = \chi_{55+}$.
$2142_2 = \chi_{56+}$.
$2142_3 = \chi_{76+}$.
$5670_1 = \chi_{43+}$.
$5670_2 = \chi_{45+}$.
$5670_3 = \chi_{47+}$.
$5670_4 = \chi_{42+}$.
$5670_5 = \chi_{37+}$.
$5670_6 = \chi_{35+}$	1
$5670_7 = \chi_{39+}$.
$5670_8 = \chi_{36+}$.
$5670_9 = \chi_{7+}$.
$5670_{10} = \chi_{9+}$.
$6048_1 = \chi_{61+}$.
$6426_1 = \chi_{53+}$.
$6426_2 = \chi_{54+}$.
$7650_1 = \chi_{12+}$.
$7650_2 = \chi_{14+}$.
$7650_3 = \chi_{13+}$.
$7650_4 = \chi_{21+}$.
$7650_5 = \chi_{20+}$.
$7650_6 = \chi_{19+}$.
$7650_7 = \chi_{26+}$.
$7650_8 = \chi_{27+}$.
$7650_9 = \chi_{28+}$	1
$8568_1 = \chi_{64+}$.
$8568_2 = \chi_{74+}$.
$8568_3 = \chi_{79+}$	1
$10710_1 = \chi_{71+}$.
$10710_2 = \chi_{58+}$.
$10710_3 = \chi_{75+}$.
$84_1 = \chi_{2,0}$.
$85_1 = \chi_{51,0}$.
$85_2 = \chi_{60,0}$.
$272_1 = \chi_{3,0}$.
$357_1 = \chi_{4,0}$.
$1344_1 = \chi_{5,0}$.

(Block 1:)	$\varphi_{1,0}$	φ_{2+}	φ_{3+}	φ_{6+}	φ_{8+}	φ_{10+}	$\varphi_{12,0}$	$\varphi_{13,0}$	φ_{14+}	φ_{16+}	φ_{18+}	φ_{20+}
1428 ₁ = $\chi_{68,0}$	4	2	2	2	1	.	.	1	1	1	2	.
1428 ₂ = $\chi_{66,0}$	4	2	2	2	1	.	1	.	1	1	.	2
1700 ₁ = $\chi_{67,0}$	4	2	2	3	2	1	2	1	1	2	1	1
1700 ₂ = $\chi_{65,0}$	4	2	2	3	2	1	1	2	2	1	1	1
1785 ₁ = $\chi_{6,0}$	5	2	2	3	3	1	.	.	1	1	1	1
3213 ₁ = $\chi_{11,0}$	5	4	4	5	3	2	1	1	2	2	1	1
84 ₂ = $\chi_{2,1}$	.	1	1	.	.	1	.	.	.	.	.	.
85 ₃ = $\chi_{51,1}$	1	1	.	1	.	.	1	.	.	.	1	.
85 ₄ = $\chi_{60,1}$	1	.	1	1	.	.	.	1	.	.	.	1
3825 ₁ = $\chi_{18,0}$	9	4	4	6	4	1	3	2	3	3	2	2
3825 ₂ = $\chi_{25,0}$	9	4	4	6	4	1	2	3	3	3	2	2
5440 ₁ = $\chi_{69,0}$	8	2	4	2	2	.	1	3	4	2	.	4
5440 ₂ = $\chi_{83,0}$	8	4	2	2	2	.	3	1	2	4	4	.
1344 ₂ = $\chi_{5,1}$	4	1	1	4	2	.	1	1	.	.	2	2
1428 ₃ = $\chi_{66,1}$	4	2	2	2	1	.	1	.	1	1	.	2
357 ₂ = $\chi_{4,1}$	1	.	.	1	1	.	1	1	1	1	.	.
3213 ₂ = $\chi_{11,1}$	5	4	4	5	3	2	1	1	2	2	1	1
5712 ₁ = $\chi_{33,0}$	12	4	4	8	7	3	.	.	1	1	2	2
7140 ₁ = $\chi_{34,0}$	8	4	4	7	4	1	5	5	4	4	3	3
1428 ₄ = $\chi_{68,1}$	4	2	2	2	1	.	.	1	1	1	2	.
5712 ₂ = $\chi_{33,1}$	12	4	4	8	7	3	.	.	1	1	2	2
3825 ₃ = $\chi_{18,1}$	9	4	4	6	4	1	3	2	3	3	2	2
7140 ₂ = $\chi_{34,1}$	8	4	4	7	4	1	5	5	4	4	3	3
1700 ₃ = $\chi_{67,1}$	4	2	2	3	2	1	2	1	1	2	1	1
5440 ₃ = $\chi_{83,1}$	8	4	2	2	2	.	3	1	2	4	4	.
1700 ₄ = $\chi_{65,1}$	4	2	2	3	2	1	1	2	2	1	1	1
1785 ₂ = $\chi_{6,1}$	5	2	2	3	3	1	.	.	1	1	1	1
272 ₂ = $\chi_{3,1}$	.	1	1	2	.	.	.	.	.	.	.	.
5440 ₄ = $\chi_{69,1}$	8	2	4	2	2	.	1	3	4	2	.	4
3825 ₄ = $\chi_{25,1}$	9	4	4	6	4	1	2	3	3	3	2	2

(Block 1:)	$\varphi_{22,0}$	φ_{23+}	φ_{24+}	φ_{27+}	φ_{29+}	φ_{30+}	φ_{31+}	φ_{34+}	φ_{37+}	φ_{39+}	φ_{41+}
$1428_1 = \chi_{68,0}$	1	2	.	.	.	1	1	.	1	.	.
$1428_2 = \chi_{66,0}$	1	.	2	.	1	.	.	1	1	.	.
$1700_1 = \chi_{67,0}$	1	1	.	.	1	.	.	.	1	.	1
$1700_2 = \chi_{65,0}$	1	.	1	.	.	1	.	.	1	1	.
$1785_1 = \chi_{6,0}$	2	1	1	1	.	.	1	1	.	1	1
$3213_1 = \chi_{11,0}$	3	2	2	1	.	.	1	1	1	1	1
$84_2 = \chi_{2,1}$	1	.	.	.	.	.	.	.	.	.	.
$85_3 = \chi_{51,1}$	.	.	.	.	.	.	.	.	.	.	.
$85_4 = \chi_{60,1}$	.	.	.	.	.	.	.	.	.	.	.
$3825_1 = \chi_{18,0}$	3	1	2	1	1	.	1	1	2	1	1
$3825_2 = \chi_{25,0}$	3	2	1	1	.	1	1	1	2	1	1
$5440_1 = \chi_{69,0}$	4	.	3	.	1	.	.	3	1	.	.
$5440_2 = \chi_{83,0}$	4	3	.	.	.	1	3	.	1	.	.
$1344_2 = \chi_{5,1}$	.	.	.	.	.	.	.	.	.	.	.
$1428_3 = \chi_{66,1}$	1	.	2	.	1	.	.	1	1	.	.
$357_2 = \chi_{4,1}$	1	.	.	.	.	.	.	.	1	.	.
$3213_2 = \chi_{11,1}$	3	2	2	1	.	.	1	1	1	1	1
$5712_1 = \chi_{33,0}$	1	2	2	2	.	.	1	1	1	2	2
$7140_1 = \chi_{34,0}$	1	1	1	1	2	2	1	1	2	1	1
$1428_4 = \chi_{68,1}$	1	2	.	.	.	1	1	.	1	.	.
$5712_2 = \chi_{33,1}$	1	2	2	2	.	.	1	1	1	2	2
$3825_3 = \chi_{18,1}$	3	1	2	1	1	.	1	1	2	1	1
$7140_2 = \chi_{34,1}$	1	1	1	1	2	2	1	1	2	1	1
$1700_3 = \chi_{67,1}$	1	1	.	.	1	.	.	.	1	.	1
$5440_3 = \chi_{83,1}$	4	3	.	.	.	1	3	.	1	.	.
$1700_4 = \chi_{65,1}$	1	.	1	.	.	1	.	.	1	1	.
$1785_2 = \chi_{6,1}$	2	1	1	1	.	.	1	1	.	1	1
$272_2 = \chi_{3,1}$	1	.	.	.	.	.	.	.	.	.	.
$5440_4 = \chi_{69,1}$	4	.	3	.	1	.	.	3	1	.	.
$3825_4 = \chi_{25,1}$	3	2	1	1	.	1	1	1	2	1	1

(Block 1:)	$\varphi_{43,0}$	φ_{44+}	φ_{45+}	φ_{48+}	φ_{49+}	φ_{52+}	φ_{54+}	$\varphi_{55,0}$	$\varphi_{57,0}$	φ_{58+}	φ_{60+}
$1428_1 = \chi_{68,0}$	.	.	.	.	.	.	.	1	.	.	.
$1428_2 = \chi_{66,0}$	.	.	.	.	.	.	.	.	1	.	.
$1700_1 = \chi_{67,0}$	.	.	.	1	.	.	.	.	.	.	.
$1700_2 = \chi_{65,0}$	.	.	.	.	1	.	.	.	.	.	.
$1785_1 = \chi_{6,0}$	1	.	.	.	.	.	.	.	.	.	.
$3213_1 = \chi_{11,0}$	1	.	.	.	.	.	.	1	1	.	.
$84_2 = \chi_{2,1}$	.	.	.	.	.	.	.	.	.	.	.
$85_3 = \chi_{51,1}$	.	.	.	.	.	.	.	.	.	.	.
$85_4 = \chi_{60,1}$	.	.	.	.	.	.	.	.	.	.	.
$3825_1 = \chi_{18,0}$	1	.	.	1	.	.	.	.	1	.	.
$3825_2 = \chi_{25,0}$	1	.	.	.	1	.	.	1	.	.	.
$5440_1 = \chi_{69,0}$	.	.	.	1	.	.	.	.	1	.	1
$5440_2 = \chi_{83,0}$	.	.	.	.	1	.	.	1	.	.	.
$1344_2 = \chi_{5,1}$	1	.	.	.	.	.	1	.	.	.	.
$1428_3 = \chi_{66,1}$	.	.	.	.	.	.	.	.	1	.	.
$357_2 = \chi_{4,1}$	.	.	.	.	.	.	.	.	.	.	.
$3213_2 = \chi_{11,1}$	1	.	.	.	.	.	.	1	1	.	.
$5712_1 = \chi_{33,0}$	1	.	.	.	.	.	.	1	1	1	.
$7140_1 = \chi_{34,0}$	1	1	1	1	1	1	1	.	.	.	.
$1428_4 = \chi_{68,1}$	.	.	.	.	.	.	.	1	.	.	.
$5712_2 = \chi_{33,1}$	1	.	.	.	.	.	.	1	1	1	.
$3825_3 = \chi_{18,1}$	1	.	.	1	.	.	.	.	1	.	.
$7140_2 = \chi_{34,1}$	1	1	1	1	1	1	1	.	.	.	.
$1700_3 = \chi_{67,1}$	.	.	.	1	.	.	.	.	.	.	.
$5440_3 = \chi_{83,1}$	.	.	.	.	1	.	.	1	.	.	.
$1700_4 = \chi_{65,1}$	.	.	.	.	1	.	.	.	.	.	.
$1785_2 = \chi_{6,1}$	1	.	.	.	.	.	.	.	.	.	.
$272_2 = \chi_{3,1}$	1	.	.	.	.	.	.	.	.	.	.
$5440_4 = \chi_{69,1}$	.	.	.	1	.	.	.	.	1	.	1
$3825_4 = \chi_{25,1}$	1	.	.	.	1	.	.	1	.	.	.

(Block 1:)	φ_{61+}	
1428 ₁ = $\chi_{68,0}$.	$\varphi_{1,0} = 1_1$
1428 ₂ = $\chi_{66,0}$.	$\varphi_{2+} = 8_1$
1700 ₁ = $\chi_{67,0}$.	$\varphi_{3+} = 8_2$
1700 ₂ = $\chi_{65,0}$.	$\varphi_{6+} = 12_1$
1785 ₁ = $\chi_{6,0}$.	$\varphi_{8+} = 28_1$
3213 ₁ = $\chi_{11,0}$.	$\varphi_{10+} = 32_1$
84 ₂ = $\chi_{2,1}$.	$\varphi_{12,0} = 16_1$
85 ₃ = $\chi_{51,1}$.	$\varphi_{13,0} = 16_2$
85 ₄ = $\chi_{60,1}$.	$\varphi_{14+} = 40_1$
3825 ₁ = $\chi_{18,0}$.	$\varphi_{16+} = 40_2$
3825 ₂ = $\chi_{25,0}$.	$\varphi_{18+} = 48_1$
5440 ₁ = $\chi_{69,0}$.	$\varphi_{20+} = 48_2$
5440 ₂ = $\chi_{83,0}$	1	$\varphi_{22,0} = 36_1$
1344 ₂ = $\chi_{5,1}$.	$\varphi_{23+} = 112_1$
1428 ₃ = $\chi_{66,1}$.	$\varphi_{24+} = 112_2$
357 ₂ = $\chi_{4,1}$.	$\varphi_{27+} = 128_1$
3213 ₂ = $\chi_{11,1}$.	$\varphi_{29+} = 160_1$
5712 ₁ = $\chi_{33,0}$.	$\varphi_{30+} = 160_2$
7140 ₁ = $\chi_{34,0}$.	$\varphi_{31+} = 160_3$
1428 ₄ = $\chi_{68,1}$.	$\varphi_{34+} = 160_4$
5712 ₂ = $\chi_{33,1}$.	$\varphi_{37+} = 168_1$
3825 ₃ = $\chi_{18,1}$.	$\varphi_{39+} = 240_1$
7140 ₂ = $\chi_{34,1}$.	$\varphi_{41+} = 240_2$
1700 ₃ = $\chi_{67,1}$.	$\varphi_{43,0} = 196_1$
5440 ₃ = $\chi_{83,1}$	1	$\varphi_{44+} = 512_1$
1700 ₄ = $\chi_{65,1}$.	$\varphi_{45+} = 512_2$
1785 ₂ = $\chi_{6,1}$.	$\varphi_{48+} = 560_1$
272 ₂ = $\chi_{3,1}$.	$\varphi_{49+} = 560_2$
5440 ₄ = $\chi_{69,1}$.	$\varphi_{52+} = 768_1$
3825 ₄ = $\chi_{25,1}$.	$\varphi_{54+} = 800_1$
		$\varphi_{55,0} = 400_1$
		$\varphi_{57,0} = 400_2$
		$\varphi_{58+} = 1792_1$
		$\varphi_{60+} = 2560_1$
		$\varphi_{61+} = 2560_2$

Block 2:	$\varphi_{64,0}$	
4096 ₁ = $\chi_{32,0}$	1	$\varphi_{64,0} = 4096_1$
4096 ₂ = $\chi_{32,1}$	1	