

$O_8^+(3).2_1 \pmod{2}$

	blocks	defect	matrix
$G :$	1	13	108×18
	2	4	10×3
	3	4	7×2
	4	4	7×2
	5	3	8×1
	6	1	2×1
	7	1	2×1

Block 1:	$\varphi_{1,0}$	$\varphi_{2,0}$	φ_{3+}	φ_{4+}	$\varphi_{5,0}$	$\varphi_{8,0}$	φ_{9+}	φ_{11+}	$\varphi_{13,0}$	φ_{14+}	φ_{16+}
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	1	.	.	.	.	.	.	.	.	.	.
$260_1 = \chi_{2,0}$	.	1	.	.	.	.	.	.	.	.	.
$260_2 = \chi_{2,1}$	.	1	.	.	.	.	.	.	.	.	.
$520_1 = \chi_{3+}$	.	.	1	.	.	.	.	.	.	.	.
$520_2 = \chi_{4+}$	.	.	.	1	.	.	.	.	.	.	.
$260_3 = \chi_{5,0}$	.	.	.	.	1	.	.	.	.	.	.
$260_4 = \chi_{5,1}$	.	.	.	.	1	.	.	.	.	.	.
$300_1 = \chi_{8,0}$	2	.	.	.	.	1	.	.	.	.	.
$300_2 = \chi_{8,1}$	2	.	.	.	.	1	.	.	.	.	.
$819_1 = \chi_{9,0}$	1	1	.	.	1	1	.	.	.	.	.
$819_2 = \chi_{9,1}$	1	1	.	.	1	1	.	.	.	.	.
$819_3 = \chi_{10,0}$	1	.	1	.	.	1	.	.	.	.	.
$819_4 = \chi_{10,1}$	1	.	1	.	.	1	.	.	.	.	.
$819_5 = \chi_{11,0}$	1	.	.	1	.	1	.	.	.	.	.
$819_6 = \chi_{11,1}$	1	.	.	1	.	1	.	.	.	.	.
$4550_1 = \chi_{12+}$	2	.	1	1	2	2	1	.	.	.	.
$4550_2 = \chi_{14+}$	2	2	1	1	.	2	.	1	.	.	.
$2808_1 = \chi_{16,0}$	.	.	.	.	.	.	.	.	1	.	.
$2808_2 = \chi_{16,1}$	.	.	.	.	.	.	.	.	1	.	.
$5460_1 = \chi_{17,0}$	.	1	.	.	.	.	.	1	1	.	.
$5460_2 = \chi_{17,1}$	.	1	.	.	.	.	.	1	1	.	.
$10920_1 = \chi_{18+}$	.	.	1	.	.	.	1	1	2	.	.
$10920_2 = \chi_{19+}$	.	.	.	1	.	.	1	1	2	.	.
$5460_3 = \chi_{20,0}$	.	.	.	.	1	.	1	.	1	.	.
$5460_4 = \chi_{20,1}$	.	.	.	.	1	.	1	.	1	.	.
$9450_1 = \chi_{23,0}$	.	1	1	1	1	1	1	1	1	.	.
$9450_2 = \chi_{23,1}$	.	1	1	1	1	1	1	1	1	.	.
$17550_1 = \chi_{24,0}$	2	1	1	1	1	2	.	.	.	.	.
$17550_2 = \chi_{24,1}$	2	1	1	1	1	2	.	.	.	.	.
$18200_1 = \chi_{25,0}$	.	.	.	.	.	.	.	.	1	.	.
$18200_2 = \chi_{25,1}$	.	.	.	.	.	.	.	.	1	.	.
$36400_1 = \chi_{26+}$	.	.	.	.	.	.	1	.	2	1	.
$36400_2 = \chi_{28+}$	.	.	.	.	.	.	.	1	2	.	1
$23400_1 = \chi_{30,0}$	.	2	.	.	.	.	.	1	1	.	.
$23400_2 = \chi_{30,1}$	.	2	.	.	.	.	.	1	1	.	.
$46800_1 = \chi_{31+}$	.	.	2	.	.	.	1	1	2	.	.
$46800_2 = \chi_{32+}$	.	.	.	2	.	.	1	1	2	.	.
$23400_3 = \chi_{33,0}$	.	.	.	.	2	.	1	.	1	.	.
$23400_4 = \chi_{33,1}$	.	.	.	.	2	.	1	.	1	.	.

(Block 1:)	$\varphi_{18,0}$	$\varphi_{19,0}$	φ_{20+}	φ_{21+}	$\varphi_{22,0}$	φ_{28+}	φ_{30+}
$1_1 = \chi_{1,0}$
$1_2 = \chi_{1,1}$
$260_1 = \chi_{2,0}$
$260_2 = \chi_{2,1}$
$520_1 = \chi_{3+}$
$520_2 = \chi_{4+}$
$260_3 = \chi_{5,0}$
$260_4 = \chi_{5,1}$
$300_1 = \chi_{8,0}$
$300_2 = \chi_{8,1}$
$819_1 = \chi_{9,0}$
$819_2 = \chi_{9,1}$
$819_3 = \chi_{10,0}$
$819_4 = \chi_{10,1}$
$819_5 = \chi_{11,0}$
$819_6 = \chi_{11,1}$
$4550_1 = \chi_{12+}$
$4550_2 = \chi_{14+}$
$2808_1 = \chi_{16,0}$
$2808_2 = \chi_{16,1}$
$5460_1 = \chi_{17,0}$
$5460_2 = \chi_{17,1}$
$10920_1 = \chi_{18+}$
$10920_2 = \chi_{19+}$
$5460_3 = \chi_{20,0}$
$5460_4 = \chi_{20,1}$
$9450_1 = \chi_{23,0}$
$9450_2 = \chi_{23,1}$
$17550_1 = \chi_{24,0}$	1	.	.	.	.	.	.
$17550_2 = \chi_{24,1}$	1	.	.	.	.	.	.
$18200_1 = \chi_{25,0}$	1	.	.	.	.	.	.
$18200_2 = \chi_{25,1}$	1	.	.	.	.	.	.
$36400_1 = \chi_{26+}$
$36400_2 = \chi_{28+}$
$23400_1 = \chi_{30,0}$.	1	.	.	.	.	.
$23400_2 = \chi_{30,1}$.	1	.	.	.	.	.
$46800_1 = \chi_{31+}$.	.	1	.	.	.	.
$46800_2 = \chi_{32+}$.	.	.	1	.	.	.
$23400_3 = \chi_{33,0}$	1	.	.
$23400_4 = \chi_{33,1}$	1	.	.

(Block 1:)	$\varphi_{1,0}$	$\varphi_{2,0}$	φ_{3+}	φ_{4+}	$\varphi_{5,0}$	$\varphi_{8,0}$	φ_{9+}	φ_{11+}	$\varphi_{13,0}$	φ_{14+}	φ_{16+}
24192 ₁ = $\chi_{36,0}$	2	2	2	2	2	3	1	1	.	.	.
24192 ₂ = $\chi_{36,1}$	2	2	2	2	2	3	1	1	.	.	.
27300 ₁ = $\chi_{37,0}$	4	2	2	2	2	4	1	1	1	.	.
27300 ₂ = $\chi_{37,1}$	4	2	2	2	2	4	1	1	1	.	.
29120 ₁ = $\chi_{38,0}$	.	2	.	.	2	.	1	1	2	.	.
29120 ₂ = $\chi_{38,1}$	.	2	.	.	2	.	1	1	2	.	.
58240 ₁ = χ_{39+}	.	.	4	.	.	.	2	2	4	.	.
58240 ₂ = χ_{40+}	.	.	.	4	.	.	2	2	4	.	.
29120 ₃ = $\chi_{41,0}$	.	2	.	.	2	.	1	1	2	.	.
29120 ₄ = $\chi_{41,1}$	.	2	.	.	2	.	1	1	2	.	.
40950 ₁ = $\chi_{44,0}$	2	3	1	1	1	2	.	1	1	.	.
40950 ₂ = $\chi_{44,1}$	2	3	1	1	1	2	.	1	1	.	.
81900 ₁ = χ_{45+}	4	2	4	2	2	4	1	1	2	.	.
81900 ₂ = χ_{46+}	4	2	2	4	2	4	1	1	2	.	.
40950 ₃ = $\chi_{47,0}$	2	1	1	1	3	2	1	.	1	.	.
40950 ₄ = $\chi_{47,1}$	2	1	1	1	3	2	1	.	1	.	.
49140 ₁ = $\chi_{53,0}$	.	1	.	.	.	.	.	.	1	1	.
49140 ₂ = $\chi_{53,1}$	.	1	.	.	.	.	.	.	1	1	.
98280 ₁ = χ_{54+}	.	.	1	.	.	.	.	.	2	1	1
98280 ₂ = χ_{55+}	.	.	.	1	.	.	.	.	2	1	1
49140 ₃ = $\chi_{56,0}$	.	.	.	.	1	.	.	.	1	.	1
49140 ₄ = $\chi_{56,1}$	.	.	.	.	1	.	.	.	1	.	1
109200 ₁ = χ_{59+}	.	.	.	.	.	.	1	.	2	.	.
109200 ₂ = χ_{61+}	.	.	.	.	.	.	.	1	2	.	.
54600 ₁ = $\chi_{63,0}$	.	2	.	.	2	.	.	.	1	.	.
54600 ₂ = $\chi_{63,1}$	.	2	.	.	2	.	.	.	1	.	.
54600 ₃ = $\chi_{64,0}$	.	.	2	.	.	.	.	.	1	.	.
54600 ₄ = $\chi_{64,1}$	.	.	2	.	.	.	.	.	1	.	.
54600 ₅ = $\chi_{65,0}$	.	.	.	2	.	.	.	.	1	.	.
54600 ₆ = $\chi_{65,1}$	.	.	.	2	.	.	.	.	1	.	.
66339 ₁ = $\chi_{66,0}$	1	2	1	1	2	1	1	1	3	.	.
66339 ₂ = $\chi_{66,1}$	1	2	1	1	2	1	1	1	3	.	.
66339 ₃ = $\chi_{67,0}$	1	1	2	1	1	1	1	1	3	.	.
66339 ₄ = $\chi_{67,1}$	1	1	2	1	1	1	1	1	3	.	.
66339 ₅ = $\chi_{68,0}$	1	1	1	2	1	1	1	1	3	.	.
66339 ₆ = $\chi_{68,1}$	1	1	1	2	1	1	1	1	3	.	.
163800 ₁ = $\chi_{69,0}$	.	.	2	2	.	.	1	1	5	1	1
163800 ₂ = $\chi_{69,1}$	.	.	2	2	.	.	1	1	5	1	1
163800 ₃ = $\chi_{70,0}$	.	2	.	2	2	.	1	1	5	1	1
163800 ₄ = $\chi_{70,1}$	.	2	.	2	2	.	1	1	5	1	1

(Block 1:)	$\varphi_{18,0}$	$\varphi_{19,0}$	φ_{20+}	φ_{21+}	$\varphi_{22,0}$	φ_{28+}	φ_{30+}
24192 ₁ = $\chi_{36,0}$	1	.	.	.	.	.	.
24192 ₂ = $\chi_{36,1}$	1	.	.	.	.	.	.
27300 ₁ = $\chi_{37,0}$	1	.	.	.	.	.	.
27300 ₂ = $\chi_{37,1}$	1	.	.	.	.	.	.
29120 ₁ = $\chi_{38,0}$	.	1	.	.	.	.	.
29120 ₂ = $\chi_{38,1}$	.	1	.	.	.	.	.
58240 ₁ = χ_{39+}	.	.	1	.	.	.	.
58240 ₂ = χ_{40+}	.	.	.	1	.	.	.
29120 ₃ = $\chi_{41,0}$	.	.	.	.	1	.	.
29120 ₄ = $\chi_{41,1}$	.	.	.	.	1	.	.
40950 ₁ = $\chi_{44,0}$	1	1	.	.	.	.	.
40950 ₂ = $\chi_{44,1}$	1	1	.	.	.	.	.
81900 ₁ = χ_{45+}	2	.	1	.	.	.	.
81900 ₂ = χ_{46+}	2	.	.	1	.	.	.
40950 ₃ = $\chi_{47,0}$	1	.	.	.	1	.	.
40950 ₄ = $\chi_{47,1}$	1	.	.	.	1	.	.
49140 ₁ = $\chi_{53,0}$	.	1	.	.	.	.	.
49140 ₂ = $\chi_{53,1}$	.	1	.	.	.	.	.
98280 ₁ = χ_{54+}	.	.	1	.	.	.	.
98280 ₂ = χ_{55+}	.	.	.	1	.	.	.
49140 ₃ = $\chi_{56,0}$	.	.	.	.	1	.	.
49140 ₄ = $\chi_{56,1}$	.	.	.	.	1	.	.
109200 ₁ = χ_{59+}	.	.	.	.	.	1	.
109200 ₂ = χ_{61+}	.	.	.	.	.	.	1
54600 ₁ = $\chi_{63,0}$	1	1	.	.	1	.	.
54600 ₂ = $\chi_{63,1}$	1	1	.	.	1	.	.
54600 ₃ = $\chi_{64,0}$	1	.	1	.	.	.	.
54600 ₄ = $\chi_{64,1}$	1	.	1	.	.	.	.
54600 ₅ = $\chi_{65,0}$	1	.	.	1	.	.	.
54600 ₆ = $\chi_{65,1}$	1	.	.	1	.	.	.
66339 ₁ = $\chi_{66,0}$	1	1	.	.	1	.	.
66339 ₂ = $\chi_{66,1}$	1	1	.	.	1	.	.
66339 ₃ = $\chi_{67,0}$	1	.	1	.	.	.	.
66339 ₄ = $\chi_{67,1}$	1	.	1	.	.	.	.
66339 ₅ = $\chi_{68,0}$	1	.	.	1	.	.	.
66339 ₆ = $\chi_{68,1}$	1	.	.	1	.	.	.
163800 ₁ = $\chi_{69,0}$	1	.	1	1	.	.	.
163800 ₂ = $\chi_{69,1}$	1	.	1	1	.	.	.
163800 ₃ = $\chi_{70,0}$	1	1	.	1	1	.	.
163800 ₄ = $\chi_{70,1}$	1	1	.	1	1	.	.

(Block 1:)	$\varphi_{1,0}$	$\varphi_{2,0}$	φ_{3+}	φ_{4+}	$\varphi_{5,0}$	$\varphi_{8,0}$	φ_{9+}	φ_{11+}	$\varphi_{13,0}$	φ_{14+}	φ_{16+}
163800 ₅ = $\chi_{71,0}$	.	2	2	.	2	.	1	1	5	1	1
163800 ₆ = $\chi_{71,1}$	.	2	2	.	2	.	1	1	5	1	1
368550 ₁ = χ_{72+}	2	2	3	3	4	2	3	2	10	1	2
368550 ₂ = χ_{74+}	2	4	3	3	2	2	2	3	10	2	1
189540 ₁ = $\chi_{76,0}$	.	1	.	.	.	.	.	1	4	1	1
189540 ₂ = $\chi_{76,1}$	.	1	.	.	.	.	.	1	4	1	1
379080 ₁ = χ_{77+}	.	.	1	.	.	.	1	1	8	2	2
379080 ₂ = χ_{78+}	.	.	.	1	.	.	1	1	8	2	2
189540 ₃ = $\chi_{79,0}$	.	.	.	.	1	.	1	.	4	1	1
189540 ₄ = $\chi_{79,1}$	.	.	.	.	1	.	1	.	4	1	1
218700 ₁ = $\chi_{82,0}$	2	2	2	2	2	1	1	1	6	1	1
218700 ₂ = $\chi_{82,1}$	2	2	2	2	2	1	1	1	6	1	1
245700 ₁ = $\chi_{89,0}$	4	4	4	4	4	4	2	2	7	1	1
245700 ₂ = $\chi_{89,1}$	4	4	4	4	4	4	2	2	7	1	1
262080 ₁ = $\chi_{90,0}$	.	2	.	.	2	.	1	1	6	2	1
262080 ₂ = $\chi_{90,1}$	.	2	.	.	2	.	1	1	6	2	1
524160 ₁ = χ_{91+}	.	.	4	.	.	.	2	2	12	3	3
524160 ₂ = χ_{92+}	.	.	.	4	.	.	2	2	12	3	3
262080 ₃ = $\chi_{93,0}$	.	2	.	.	2	.	1	1	6	1	2
262080 ₄ = $\chi_{93,1}$	.	2	.	.	2	.	1	1	6	1	2
291200 ₁ = $\chi_{96,0}$	.	.	.	.	.	.	2	2	8	1	1
291200 ₂ = $\chi_{96,1}$	.	.	.	.	.	.	2	2	8	1	1
582400 ₁ = χ_{97+}	.	4	4	4	4	.	4	2	16	3	2
582400 ₂ = χ_{99+}	.	4	4	4	4	.	2	4	16	2	3
491400 ₁ = $\chi_{111,0}$	.	2	2	2	2	.	3	3	13	2	2
491400 ₂ = $\chi_{111,1}$	.	2	2	2	2	.	3	3	13	2	2
531441 ₁ = $\chi_{112,0}$	1	1	1	1	1	.	1	1	11	3	3
531441 ₂ = $\chi_{112,1}$	1	1	1	1	1	.	1	1	11	3	3

(Block 1:)	$\varphi_{18,0}$	$\varphi_{19,0}$	φ_{20+}	φ_{21+}	$\varphi_{22,0}$	φ_{28+}	φ_{30+}
163800 ₅ = $\chi_{71,0}$	1	1	1	.	1	.	.
163800 ₆ = $\chi_{71,1}$	1	1	1	.	1	.	.
368550 ₁ = χ_{72+}	2	.	1	1	2	1	.
368550 ₂ = χ_{74+}	2	2	1	1	.	.	1
189540 ₁ = $\chi_{76,0}$	.	1	.	.	.	.	1
189540 ₂ = $\chi_{76,1}$	.	1	.	.	.	.	1
379080 ₁ = χ_{77+}	.	.	1	.	.	1	1
379080 ₂ = χ_{78+}	.	.	.	1	.	1	1
189540 ₃ = $\chi_{79,0}$	.	.	.	.	1	1	.
189540 ₄ = $\chi_{79,1}$	.	.	.	.	1	1	.
218700 ₁ = $\chi_{82,0}$	2	1	1	1	1	.	.
218700 ₂ = $\chi_{82,1}$	2	1	1	1	1	.	.
245700 ₁ = $\chi_{89,0}$	3	1	1	1	1	.	.
245700 ₂ = $\chi_{89,1}$	3	1	1	1	1	.	.
262080 ₁ = $\chi_{90,0}$	.	2	.	.	1	.	1
262080 ₂ = $\chi_{90,1}$	.	2	.	.	1	.	1
524160 ₁ = χ_{91+}	.	.	3	.	.	1	1
524160 ₂ = χ_{92+}	.	.	.	3	.	1	1
262080 ₃ = $\chi_{93,0}$	.	1	.	.	2	1	.
262080 ₄ = $\chi_{93,1}$	.	1	.	.	2	1	.
291200 ₁ = $\chi_{96,0}$	.	.	.	.	.	1	1
291200 ₂ = $\chi_{96,1}$	.	.	.	.	.	1	1
582400 ₁ = χ_{97+}	4	2	2	2	2	1	.
582400 ₂ = χ_{99+}	4	2	2	2	2	.	1
491400 ₁ = $\chi_{111,0}$	1	1	1	1	1	1	1
491400 ₂ = $\chi_{111,1}$	1	1	1	1	1	1	1
531441 ₁ = $\chi_{112,0}$	1	1	1	1	1	1	1
531441 ₂ = $\chi_{112,1}$	1	1	1	1	1	1	1

$\varphi_{1,0}$	=	1_1	φ_{14+}	=	28392_1
$\varphi_{2,0}$	=	260_1	φ_{16+}	=	28392_2
φ_{3+}	=	520_1	$\varphi_{18,0}$	=	15392_1
φ_{4+}	=	520_2	$\varphi_{19,0}$	=	17680_1
$\varphi_{5,0}$	=	260_2	φ_{20+}	=	35360_1
$\varphi_{8,0}$	=	298_1	φ_{21+}	=	35360_2
φ_{9+}	=	2392_1	$\varphi_{22,0}$	=	17680_2
φ_{11+}	=	2392_2	φ_{28+}	=	101192_1
$\varphi_{13,0}$	=	2808_1	φ_{30+}	=	101192_2

Block 2:	$\varphi_{25,0}$	$\varphi_{32,0}$	$\varphi_{35,0}$
$46592_1 = \chi_{50,0}$	1	.	.
$46592_2 = \chi_{50,1}$	1	.	.
$232960_1 = \chi_{83,0}$	1	1	.
$232960_2 = \chi_{83,1}$	1	1	.
$232960_3 = \chi_{86,0}$	1	.	1
$232960_4 = \chi_{86,1}$	1	.	1
$419328_1 = \chi_{105,0}$	1	1	1
$419328_2 = \chi_{105,1}$	1	1	1
$465920_3 = \chi_{108,0}$	2	1	1
$465920_4 = \chi_{108,1}$	2	1	1

$$\begin{aligned} \varphi_{25,0} &= 46592_1 \\ \varphi_{32,0} &= 186368_1 \\ \varphi_{35,0} &= 186368_2 \end{aligned}$$

Block 3:	$\varphi_{26,0}$	φ_{33+}
$46592_3 = \chi_{51,0}$	1	.
$46592_4 = \chi_{51,1}$	1	.
$465920_1 = \chi_{84+}$	2	1
$419328_3 = \chi_{106,0}$	1	1
$419328_4 = \chi_{106,1}$	1	1
$465920_5 = \chi_{109,0}$	2	1
$465920_6 = \chi_{109,1}$	2	1

$$\begin{aligned} \varphi_{26,0} &= 46592_2 \\ \varphi_{33+} &= 372736_1 \end{aligned}$$

Block 4:	$\varphi_{27,0}$	φ_{34+}
$46592_5 = \chi_{52,0}$	1	.
$46592_6 = \chi_{52,1}$	1	.
$465920_2 = \chi_{85+}$	2	1
$419328_5 = \chi_{107,0}$	1	1
$419328_6 = \chi_{107,1}$	1	1
$465920_7 = \chi_{110,0}$	2	1
$465920_8 = \chi_{110,1}$	2	1

$$\begin{aligned} \varphi_{27,0} &= 46592_3 \\ \varphi_{34+} &= 372736_2 \end{aligned}$$

Block 5:	$\varphi_{38,0}$
$332800_1 = \chi_{101,0}$	1
$332800_2 = \chi_{101,1}$	1
$332800_3 = \chi_{102,0}$	1
$332800_4 = \chi_{102,1}$	1
$332800_5 = \chi_{103,0}$	1
$332800_6 = \chi_{103,1}$	1
$332800_7 = \chi_{104,0}$	1
$332800_8 = \chi_{104,1}$	1

$$\varphi_{38,0} = 332800_1$$

Block 6:	$\varphi_{39,0}$
$716800_1 = \chi_{113,0}$	1
$716800_2 = \chi_{113,1}$	1

$$\varphi_{39,0} = 716800_1$$

Block 7:	$\varphi_{40,0}$
$716800_3 = \chi_{114,0}$	1
$716800_4 = \chi_{114,1}$	1

$$\varphi_{40,0} = 716800_2$$