

$$O_8^+(3).4 \pmod{2}$$

	blocks	defect	matrix
$G :$	1	14	105×11
	2	5	14×2
	3	4	7×2
	4	4	10×1
	5	2	4×1
	6	2	4×1

Block 1:	$\varphi_{1,0}$	$\varphi_{2,0+}$	φ_{3+}	$\varphi_{8,0}$	φ_{9+}	$\varphi_{13,0}$	φ_{14+}	$\varphi_{18,0}$	$\varphi_{19,0+}$	φ_{20+}
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	1	.	.	.	.	.	.	.	.	.
$1_3 = \chi_{1,2}$	1	.	.	.	.	.	.	.	.	.
$1_4 = \chi_{1,3}$	1	.	.	.	.	.	.	.	.	.
$520_1 = \chi_{2,0+}$	.	1	.	.	.	.	.	.	.	.
$520_2 = \chi_{2,1+}$	.	1	.	.	.	.	.	.	.	.
$1040_1 = \chi_{3+}$	.	.	1	.	.	.	.	.	.	.
$300_1 = \chi_{8,0}$	2	.	.	1	.	.	.	.	.	.
$300_2 = \chi_{8,1}$	2	.	.	1	.	.	.	.	.	.
$300_3 = \chi_{8,2}$	2	.	.	1	.	.	.	.	.	.
$300_4 = \chi_{8,3}$	2	.	.	1	.	.	.	.	.	.
$819_1 = \chi_{9,0}$	1	1	.	1	.	.	.	.	.	.
$819_2 = \chi_{9,1}$	1	1	.	1	.	.	.	.	.	.
$819_3 = \chi_{9,2}$	1	1	.	1	.	.	.	.	.	.
$819_4 = \chi_{9,3}$	1	1	.	1	.	.	.	.	.	.
$1638_1 = \chi_{10,0+}$	2	.	1	2	.	.	.	.	.	.
$1638_2 = \chi_{10,1+}$	2	.	1	2	.	.	.	.	.	.
$9100_1 = \chi_{12+}$	4	2	2	4	1	.	.	.	.	.
$2808_1 = \chi_{16,0}$	.	.	.	.	.	1	.	.	.	.
$2808_2 = \chi_{16,1}$	.	.	.	.	.	1	.	.	.	.
$2808_3 = \chi_{16,2}$	.	.	.	.	.	1	.	.	.	.
$2808_4 = \chi_{16,3}$	.	.	.	.	.	1	.	.	.	.
$10920_1 = \chi_{17,0+}$	.	1	.	.	1	2	.	.	.	.
$10920_2 = \chi_{17,1+}$	.	1	.	.	1	2	.	.	.	.
$21840_1 = \chi_{18+}$	.	.	1	.	2	4	.	.	.	.
$9450_1 = \chi_{23,0}$	.	1	1	1	1	1	.	.	.	.
$9450_2 = \chi_{23,1}$	.	1	1	1	1	1	.	.	.	.
$9450_3 = \chi_{23,2}$	.	1	1	1	1	1	.	.	.	.
$9450_4 = \chi_{23,3}$	.	1	1	1	1	1	.	.	.	.
$17550_1 = \chi_{24,0}$	2	1	1	2	.	.	.	1	.	.
$17550_2 = \chi_{24,1}$	2	1	1	2	.	.	.	1	.	.
$17550_3 = \chi_{24,2}$	2	1	1	2	.	.	.	1	.	.
$17550_4 = \chi_{24,3}$	2	1	1	2	.	.	.	1	.	.
$18200_1 = \chi_{25,0}$	.	.	.	.	.	1	.	1	.	.
$18200_2 = \chi_{25,1}$	.	.	.	.	.	1	.	1	.	.
$18200_3 = \chi_{25,2}$	.	.	.	.	.	1	.	1	.	.
$18200_4 = \chi_{25,3}$	.	.	.	.	.	1	.	1	.	.
$72800_1 = \chi_{26+}$	.	.	.	.	1	4	1	.	.	.
$46800_1 = \chi_{30,0+}$	.	2	.	.	1	2	.	.	1	.
$46800_2 = \chi_{30,1+}$	.	2	.	.	1	2	.	.	1	.

(Block 1:)	φ_{28+}
$1_1 = \chi_{1,0}$	.
$1_2 = \chi_{1,1}$	.
$1_3 = \chi_{1,2}$	.
$1_4 = \chi_{1,3}$	.
$520_1 = \chi_{2,0+}$	.
$520_2 = \chi_{2,1+}$	.
$1040_1 = \chi_{3+}$	.
$300_1 = \chi_{8,0}$	.
$300_2 = \chi_{8,1}$	.
$300_3 = \chi_{8,2}$	.
$300_4 = \chi_{8,3}$	.
$819_1 = \chi_{9,0}$	.
$819_2 = \chi_{9,1}$	.
$819_3 = \chi_{9,2}$	.
$819_4 = \chi_{9,3}$	.
$1638_1 = \chi_{10,0+}$	.
$1638_2 = \chi_{10,1+}$	.
$9100_1 = \chi_{12+}$	.
$2808_1 = \chi_{16,0}$	.
$2808_2 = \chi_{16,1}$	.
$2808_3 = \chi_{16,2}$	.
$2808_4 = \chi_{16,3}$	.
$10920_1 = \chi_{17,0+}$	.
$10920_2 = \chi_{17,1+}$	.
$21840_1 = \chi_{18+}$	.
$9450_1 = \chi_{23,0}$	.
$9450_2 = \chi_{23,1}$	.
$9450_3 = \chi_{23,2}$	.
$9450_4 = \chi_{23,3}$	.
$17550_1 = \chi_{24,0}$	.
$17550_2 = \chi_{24,1}$	.
$17550_3 = \chi_{24,2}$	.
$17550_4 = \chi_{24,3}$	.
$18200_1 = \chi_{25,0}$	.
$18200_2 = \chi_{25,1}$	.
$18200_3 = \chi_{25,2}$	.
$18200_4 = \chi_{25,3}$	.
$72800_1 = \chi_{26+}$	.
$46800_1 = \chi_{30,0+}$	.
$46800_2 = \chi_{30,1+}$	.

(Block 1:)	$\varphi_{1,0}$	$\varphi_{2,0+}$	φ_{3+}	$\varphi_{8,0}$	φ_{9+}	$\varphi_{13,0}$	φ_{14+}	$\varphi_{18,0}$	$\varphi_{19,0+}$	φ_{20+}
$93600_1 = \chi_{31+}$	.	.	2	.	2	4	.	.	.	1
$24192_1 = \chi_{36,0}$	2	2	2	3	1	.	.	1	.	.
$24192_2 = \chi_{36,1}$	2	2	2	3	1	.	.	1	.	.
$24192_3 = \chi_{36,2}$	2	2	2	3	1	.	.	1	.	.
$24192_4 = \chi_{36,3}$	2	2	2	3	1	.	.	1	.	.
$27300_1 = \chi_{37,0}$	4	2	2	4	1	1	.	1	.	.
$27300_2 = \chi_{37,1}$	4	2	2	4	1	1	.	1	.	.
$27300_3 = \chi_{37,2}$	4	2	2	4	1	1	.	1	.	.
$27300_4 = \chi_{37,3}$	4	2	2	4	1	1	.	1	.	.
$58240_1 = \chi_{38,0+}$	.	4	.	.	2	4	.	.	1	.
$58240_2 = \chi_{38,1+}$	.	4	.	.	2	4	.	.	1	.
$116480_1 = \chi_{39+}$	.	.	4	.	4	8	.	.	.	1
$81900_1 = \chi_{44,0+}$	4	4	2	4	1	2	.	2	1	.
$81900_2 = \chi_{44,1+}$	4	4	2	4	1	2	.	2	1	.
$163800_1 = \chi_{45+}$	8	4	6	8	2	4	.	4	.	1
$98280_1 = \chi_{53,0+}$	.	1	.	.	.	2	1	.	1	.
$98280_2 = \chi_{53,1+}$	.	1	.	.	.	2	1	.	1	.
$196560_1 = \chi_{54+}$	.	.	1	.	.	4	2	.	.	1
$218400_1 = \chi_{59+}$	.	.	.	.	1	4	.	.	.	.
$54600_1 = \chi_{63,0}$	.	2	.	.	.	1	.	1	1	.
$54600_2 = \chi_{63,1}$	.	2	.	.	.	1	.	1	1	.
$54600_3 = \chi_{63,2}$	.	2	.	.	.	1	.	1	1	.
$54600_4 = \chi_{63,3}$	.	2	.	.	.	1	.	1	1	.
$109200_1 = \chi_{64,0+}$	.	.	2	.	.	2	.	2	.	1
$109200_2 = \chi_{64,1+}$	.	.	2	.	.	2	.	2	.	1
$66339_1 = \chi_{66,0}$	1	2	1	1	1	3	.	1	1	.
$66339_2 = \chi_{66,1}$	1	2	1	1	1	3	.	1	1	.
$66339_3 = \chi_{66,2}$	1	2	1	1	1	3	.	1	1	.
$66339_4 = \chi_{66,3}$	1	2	1	1	1	3	.	1	1	.
$132678_1 = \chi_{67,0+}$	2	2	3	2	2	6	.	2	.	1
$132678_2 = \chi_{67,1+}$	2	2	3	2	2	6	.	2	.	1
$163800_2 = \chi_{69,0}$	.	.	2	.	1	5	1	1	.	1
$163800_3 = \chi_{69,1}$	.	.	2	.	1	5	1	1	.	1
$163800_4 = \chi_{69,2}$	.	.	2	.	1	5	1	1	.	1
$163800_5 = \chi_{69,3}$	.	.	2	.	1	5	1	1	.	1
$327600_1 = \chi_{70,0+}$	.	4	2	.	2	10	2	2	2	1
$327600_2 = \chi_{70,1+}$	.	4	2	.	2	10	2	2	2	1
$737100_1 = \chi_{72+}$	4	6	6	4	5	20	3	4	2	2
$379080_1 = \chi_{76,0+}$	.	1	.	.	1	8	2	.	1	.
$379080_2 = \chi_{76,1+}$	.	1	.	.	1	8	2	.	1	.

(Block 1:)	φ_{28+}
93600 ₁ = χ_{31+}	.
24192 ₁ = $\chi_{36,0}$	.
24192 ₂ = $\chi_{36,1}$	.
24192 ₃ = $\chi_{36,2}$	.
24192 ₄ = $\chi_{36,3}$	.
27300 ₁ = $\chi_{37,0}$	.
27300 ₂ = $\chi_{37,1}$	.
27300 ₃ = $\chi_{37,2}$	.
27300 ₄ = $\chi_{37,3}$	.
58240 ₁ = $\chi_{38,0+}$	.
58240 ₂ = $\chi_{38,1+}$	.
116480 ₁ = χ_{39+}	.
81900 ₁ = $\chi_{44,0+}$	.
81900 ₂ = $\chi_{44,1+}$	.
163800 ₁ = χ_{45+}	.
98280 ₁ = $\chi_{53,0+}$	.
98280 ₂ = $\chi_{53,1+}$	.
196560 ₁ = χ_{54+}	.
218400 ₁ = χ_{59+}	1
54600 ₁ = $\chi_{63,0}$	.
54600 ₂ = $\chi_{63,1}$	.
54600 ₃ = $\chi_{63,2}$	.
54600 ₄ = $\chi_{63,3}$	.
109200 ₁ = $\chi_{64,0+}$	.
109200 ₂ = $\chi_{64,1+}$	.
66339 ₁ = $\chi_{66,0}$	.
66339 ₂ = $\chi_{66,1}$	.
66339 ₃ = $\chi_{66,2}$	.
66339 ₄ = $\chi_{66,3}$	.
132678 ₁ = $\chi_{67,0+}$	.
132678 ₂ = $\chi_{67,1+}$	.
163800 ₂ = $\chi_{69,0}$	.
163800 ₃ = $\chi_{69,1}$	.
163800 ₄ = $\chi_{69,2}$	.
163800 ₅ = $\chi_{69,3}$	.
327600 ₁ = $\chi_{70,0+}$	.
327600 ₂ = $\chi_{70,1+}$	.
737100 ₁ = χ_{72+}	1
379080 ₁ = $\chi_{76,0+}$	1
379080 ₂ = $\chi_{76,1+}$	1

(Block 1:)	$\varphi_{1,0}$	$\varphi_{2,0+}$	φ_{3+}	$\varphi_{8,0}$	φ_{9+}	$\varphi_{13,0}$	φ_{14+}	$\varphi_{18,0}$	$\varphi_{19,0+}$	φ_{20+}
$758160_1 = \chi_{77+}$	.	.	1	.	2	16	4	.	.	1
$218700_1 = \chi_{82,0}$	2	2	2	1	1	6	1	2	1	1
$218700_2 = \chi_{82,1}$	2	2	2	1	1	6	1	2	1	1
$218700_3 = \chi_{82,2}$	2	2	2	1	1	6	1	2	1	1
$218700_4 = \chi_{82,3}$	2	2	2	1	1	6	1	2	1	1
$245700_1 = \chi_{89,0}$	4	4	4	4	2	7	1	3	1	1
$245700_2 = \chi_{89,1}$	4	4	4	4	2	7	1	3	1	1
$245700_3 = \chi_{89,2}$	4	4	4	4	2	7	1	3	1	1
$245700_4 = \chi_{89,3}$	4	4	4	4	2	7	1	3	1	1
$524160_1 = \chi_{90,0+}$	.	4	.	.	2	12	3	.	3	.
$524160_2 = \chi_{90,1+}$	.	4	.	.	2	12	3	.	3	.
$1048320_1 = \chi_{91+}$	.	.	4	.	4	24	6	.	.	3
$291200_1 = \chi_{96,0}$	.	.	.	.	2	8	1	.	.	.
$291200_2 = \chi_{96,1}$	.	.	.	.	2	8	1	.	.	.
$291200_3 = \chi_{96,2}$	.	.	.	.	2	8	1	.	.	.
$291200_4 = \chi_{96,3}$	.	.	.	.	2	8	1	.	.	.
$1164800_1 = \chi_{97+}$	.	8	8	.	6	32	5	8	4	4
$491400_1 = \chi_{111,0}$	.	2	2	.	3	13	2	1	1	1
$491400_2 = \chi_{111,1}$	.	2	2	.	3	13	2	1	1	1
$491400_3 = \chi_{111,2}$	.	2	2	.	3	13	2	1	1	1
$491400_4 = \chi_{111,3}$	.	2	2	.	3	13	2	1	1	1
$531441_1 = \chi_{112,0}$	1	1	1	.	1	11	3	1	1	1
$531441_2 = \chi_{112,1}$	1	1	1	.	1	11	3	1	1	1
$531441_3 = \chi_{112,2}$	1	1	1	.	1	11	3	1	1	1
$531441_4 = \chi_{112,3}$	1	1	1	.	1	11	3	1	1	1

(Block 1:)	φ_{28+}
758160 ₁ = χ_{77+}	2
218700 ₁ = $\chi_{82,0}$	.
218700 ₂ = $\chi_{82,1}$	.
218700 ₃ = $\chi_{82,2}$	.
218700 ₄ = $\chi_{82,3}$	.
245700 ₁ = $\chi_{89,0}$	.
245700 ₂ = $\chi_{89,1}$	.
245700 ₃ = $\chi_{89,2}$	.
245700 ₄ = $\chi_{89,3}$	.
524160 ₁ = $\chi_{90,0+}$	1
524160 ₂ = $\chi_{90,1+}$	1
1048320 ₁ = χ_{91+}	2
291200 ₁ = $\chi_{96,0}$	1
291200 ₂ = $\chi_{96,1}$	1
291200 ₃ = $\chi_{96,2}$	1
291200 ₄ = $\chi_{96,3}$	1
1164800 ₁ = χ_{97+}	1
491400 ₁ = $\chi_{111,0}$	1
491400 ₂ = $\chi_{111,1}$	1
491400 ₃ = $\chi_{111,2}$	1
491400 ₄ = $\chi_{111,3}$	1
531441 ₁ = $\chi_{112,0}$	1
531441 ₂ = $\chi_{112,1}$	1
531441 ₃ = $\chi_{112,2}$	1
531441 ₄ = $\chi_{112,3}$	1

$$\begin{aligned}
\varphi_{1,0} &= 1_1 \\
\varphi_{2,0+} &= 520_1 \\
\varphi_{3+} &= 1040_1 \\
\varphi_{8,0} &= 298_1 \\
\varphi_{9+} &= 4784_1 \\
\varphi_{13,0} &= 2808_1 \\
\varphi_{14+} &= 56784_1 \\
\varphi_{18,0} &= 15392_1 \\
\varphi_{19,0+} &= 35360_1 \\
\varphi_{20+} &= 70720_1 \\
\varphi_{28+} &= 202384_1
\end{aligned}$$

Block 2:	$\varphi_{25,0}$	$\varphi_{32,0+}$
46592 ₁ = $\chi_{50,0}$	1	.
46592 ₂ = $\chi_{50,1}$	1	.
46592 ₃ = $\chi_{50,2}$	1	.
46592 ₄ = $\chi_{50,3}$	1	.
465920 ₁ = $\chi_{83,0+}$	2	1
465920 ₂ = $\chi_{83,1+}$	2	1
419328 ₁ = $\chi_{105,0}$	1	1
419328 ₂ = $\chi_{105,1}$	1	1
419328 ₃ = $\chi_{105,2}$	1	1
419328 ₄ = $\chi_{105,3}$	1	1
465920 ₃ = $\chi_{108,0}$	2	1
465920 ₄ = $\chi_{108,1}$	2	1
465920 ₅ = $\chi_{108,2}$	2	1
465920 ₆ = $\chi_{108,3}$	2	1

$$\begin{aligned}
\varphi_{25,0} &= 46592_1 \\
\varphi_{32,0+} &= 372736_1
\end{aligned}$$

Block 3:	$\varphi_{26,0+}$	φ_{33+}		
$93184_1 = \chi_{51,0+}$	1	.		
$93184_2 = \chi_{51,1+}$	1	.		
$931840_1 = \chi_{84+}$	2	1	$\varphi_{26,0+} =$	93184_1
$838656_1 = \chi_{106,0+}$	1	1	$\varphi_{33+} =$	745472_1
$838656_2 = \chi_{106,1+}$	1	1		
$931840_2 = \chi_{109,0+}$	2	1		
$931840_3 = \chi_{109,1+}$	2	1		

Block 4:	$\varphi_{38,0}$		
$332800_1 = \chi_{101,0}$	1		
$332800_2 = \chi_{101,1}$	1		
$332800_3 = \chi_{101,2}$	1		
$332800_4 = \chi_{101,3}$	1		
$332800_5 = \chi_{102,0}$	1	$\varphi_{38,0} =$	332800_1
$332800_6 = \chi_{102,1}$	1		
$332800_7 = \chi_{102,2}$	1		
$332800_8 = \chi_{102,3}$	1		
$665600_1 = \chi_{103,0+}$	2		
$665600_2 = \chi_{103,1+}$	2		

Block 5:	$\varphi_{39,0}$		
$716800_1 = \chi_{113,0}$	1		
$716800_2 = \chi_{113,1}$	1	$\varphi_{39,0} =$	716800_1
$716800_3 = \chi_{113,2}$	1		
$716800_4 = \chi_{113,3}$	1		

Block 6:	$\varphi_{40,0}$		
$716800_5 = \chi_{114,0}$	1		
$716800_6 = \chi_{114,1}$	1	$\varphi_{40,0} =$	716800_2
$716800_7 = \chi_{114,2}$	1		
$716800_8 = \chi_{114,3}$	1		