

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

	blocks	defect	matrix
$2.G:$	$\begin{smallmatrix} 1 \\ 2 \end{smallmatrix}$	$\begin{smallmatrix} 14 \\ 2 \end{smallmatrix}$	$\begin{smallmatrix} 108 \times 11 \\ 4 \times 1 \end{smallmatrix}$

Block 1:	$\varphi_{1,0}$	$\varphi_{2,0}$	φ_{3+}	$\varphi_{5,0}$	$\varphi_{6,0}$	φ_{7+}	$\varphi_{9,0}$	φ_{10+}	$\varphi_{12,0}$	$\varphi_{13,0}$	φ_{14+}
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	1	.	.	.	.	.	.	.	.	.	.
$28_1 = \chi_{2,0}$	2	.	.	1	.	.	.	.	.	.	.
$28_2 = \chi_{2,1}$	2	.	.	1	.	.	.	.	.	.	.
$35_1 = \chi_{3,0}$	1	1	.	1	.	.	.	.	.	.	.
$35_2 = \chi_{3,1}$	1	1	.	1	.	.	.	.	.	.	.
$70_1 = \chi_{4+}$	2	.	1	2	.	.	.	.	.	.	.
$50_1 = \chi_{6,0}$	.	1	1	1	.	.	.	.	.	.	.
$50_2 = \chi_{6,1}$	.	1	1	1	.	.	.	.	.	.	.
$84_1 = \chi_{7,0}$	2	1	.	1	1	.	.	.	.	.	.
$84_2 = \chi_{7,1}$	2	1	.	1	1	.	.	.	.	.	.
$168_1 = \chi_{8+}$	4	.	1	2	.	1	.	.	.	.	.
$175_1 = \chi_{10,0}$	5	.	.	1	1	1	.	.	.	.	.
$175_2 = \chi_{10,1}$	5	.	.	1	1	1	.	.	.	.	.
$210_1 = \chi_{11,0}$	.	1	1	1	.	.	1	.	.	.	.
$210_2 = \chi_{11,1}$	.	1	1	1	.	.	1	.	.	.	.
$420_1 = \chi_{12+}$	.	2	2	2	.	.	.	1	.	.	.
$300_1 = \chi_{14,0}$	2	.	.	2	.	.	.	.	1	.	.
$300_2 = \chi_{14,1}$	2	.	.	2	.	.	.	.	1	.	.
$350_1 = \chi_{15,0}$	2	1	1	3	.	.	.	.	1	.	.
$350_2 = \chi_{15,1}$	2	1	1	3	.	.	.	.	1	.	.
$525_1 = \chi_{16,0}$	7	1	1	4	1	1	.	.	1	.	.
$525_2 = \chi_{16,1}$	7	1	1	4	1	1	.	.	1	.	.
$567_1 = \chi_{17,0}$	3	2	1	3	1	.	1	.	1	.	.
$567_2 = \chi_{17,1}$	3	2	1	3	1	.	1	.	1	.	.
$1134_1 = \chi_{18+}$	6	2	3	6	.	1	.	1	2	.	.
$700_1 = \chi_{20,0}$	2	2	2	1	1	1	1	1	.	.	.
$700_2 = \chi_{20,1}$	2	2	2	1	1	1	1	1	.	.	.
$700_3 = \chi_{21,0}$	6	1	2	4	1	1	1	.	1	.	.
$700_4 = \chi_{21,1}$	6	1	2	4	1	1	1	.	1	.	.
$1400_1 = \chi_{22+}$	12	4	3	8	2	2	.	1	2	.	.
$840_1 = \chi_{24,0}$	4	2	2	3	1	1	.	1	1	.	.
$840_2 = \chi_{24,1}$	4	2	2	3	1	1	.	1	1	.	.
$1680_1 = \chi_{25+}$	8	4	4	6	2	2	2	1	2	.	.
$972_1 = \chi_{27,0}$	2	2	2	2	1	1	1	1	1	.	.
$972_2 = \chi_{27,1}$	2	2	2	2	1	1	1	1	1	.	.
$1050_1 = \chi_{28,0}$	4	3	3	4	1	1	1	1	1	.	.
$1050_2 = \chi_{28,1}$	4	3	3	4	1	1	1	1	1	.	.
$2100_1 = \chi_{29+}$	8	6	6	8	2	2	2	2	2	.	.
$1344_1 = \chi_{31,0}$	2	2	2	4	.	.	1	.	1	1	.

(Block 1:)	$\varphi_{1,0}$	$\varphi_{2,0}$	φ_{3+}	$\varphi_{5,0}$	$\varphi_{6,0}$	φ_{7+}	$\varphi_{9,0}$	φ_{10+}	$\varphi_{12,0}$	$\varphi_{13,0}$	φ_{14+}
$1344_2 = \chi_{31,1}$	2	2	2	4	.	.	1	.	1	1	.
$2688_1 = \chi_{32+}$	4	4	4	8	.	.	.	1	2	.	1
$1400_2 = \chi_{34,0}$	6	4	4	7	1	1	1	1	2	.	.
$1400_3 = \chi_{34,1}$	6	4	4	7	1	1	1	1	2	.	.
$1575_1 = \chi_{35,0}$	7	3	2	5	2	1	1	.	1	1	.
$1575_2 = \chi_{35,1}$	7	3	2	5	2	1	1	.	1	1	.
$3150_1 = \chi_{36+}$	14	4	5	10	2	3	.	1	2	.	1
$2100_2 = \chi_{38,0}$	4	5	4	5	2	1	2	1	1	1	.
$2100_3 = \chi_{38,1}$	4	5	4	5	2	1	2	1	1	1	.
$4200_1 = \chi_{39+}$	8	8	9	10	2	3	2	3	2	.	1
$2240_1 = \chi_{41,0}$	2	6	4	4	2	1	1	2	1	1	.
$2240_2 = \chi_{41,1}$	2	6	4	4	2	1	1	2	1	1	.
$4480_1 = \chi_{42+}$	4	8	10	8	2	3	4	3	2	.	1
$2268_1 = \chi_{44,0}$	8	5	4	8	2	1	1	1	2	1	.
$2268_2 = \chi_{44,1}$	8	5	4	8	2	1	1	1	2	1	.
$4536_1 = \chi_{45+}$	16	8	9	16	2	3	2	2	4	.	1
$2835_1 = \chi_{47,0}$	7	4	5	7	1	2	1	1	1	.	1
$2835_2 = \chi_{47,1}$	7	4	5	7	1	2	1	1	1	.	1
$5670_1 = \chi_{48+}$	14	10	9	14	4	3	2	2	2	2	1
$3200_1 = \chi_{50,0}$	10	4	4	8	2	2	.	.	1	1	1
$3200_2 = \chi_{50,1}$	10	4	4	8	2	2	.	.	1	1	1
$4200_2 = \chi_{52,0}$	14	6	6	11	3	3	1	1	2	1	1
$4200_3 = \chi_{52,1}$	14	6	6	11	3	3	1	1	2	1	1
$6075_1 = \chi_{53,0}$	17	11	11	17	4	4	3	3	4	1	1
$6075_2 = \chi_{53,1}$	17	11	11	17	4	4	3	3	4	1	1
$8_1 = \chi_{54,0}$	.	1	.	.	.	.	.	.	.	.	.
$8_2 = \chi_{54,1}$	.	1	.	.	.	.	.	.	.	.	.
$56_1 = \chi_{55,0}$	.	1	.	.	1	.	.	.	.	.	.
$56_2 = \chi_{55,1}$	.	1	.	.	1	.	.	.	.	.	.
$112_1 = \chi_{56,0}$	4	1	.	2	1	.	.	.	.	.	.
$112_2 = \chi_{56,1}$	4	1	.	2	1	.	.	.	.	.	.
$160_1 = \chi_{57,0}$	.	.	.	.	.	.	1	.	.	.	.
$160_2 = \chi_{57,1}$	.	.	.	.	.	.	1	.	.	.	.
$448_1 = \chi_{58+}$	.	.	2	.	.	1	2	.	.	.	.
$400_1 = \chi_{60,0}$	4	1	2	2	1	1	1	.	.	.	.
$400_2 = \chi_{60,1}$	4	1	2	2	1	1	1	.	.	.	.
$448_2 = \chi_{61,0}$	6	.	.	2	1	1	.	.	1	.	.
$448_3 = \chi_{61,1}$	6	.	.	2	1	1	.	.	1	.	.
$560_1 = \chi_{62,0}$	2	2	2	4	.	.	1	.	1	.	.
$560_2 = \chi_{62,1}$	2	2	2	4	.	.	1	.	1	.	.

(Block 1:)	$\varphi_{1,0}$	$\varphi_{2,0}$	φ_{3+}	$\varphi_{5,0}$	$\varphi_{6,0}$	φ_{7+}	$\varphi_{9,0}$	φ_{10+}	$\varphi_{12,0}$	$\varphi_{13,0}$	φ_{14+}
$1344_3 = \chi_{63+}$	.	4	4	.	2	2	2	2	.	.	.
$840_3 = \chi_{65,0}$	.	1	.	.	1	.	.	.	.	1	.
$840_4 = \chi_{65,1}$	.	1	.	.	1	.	.	.	.	1	.
$1008_1 = \chi_{66,0}$	8	2	2	6	1	1	1	.	2	.	.
$1008_2 = \chi_{66,1}$	8	2	2	6	1	1	1	.	2	.	.
$2016_1 = \chi_{67+}$	8	2	2	4	2	2	.	.	.	.	1
$1296_1 = \chi_{69,0}$	6	3	2	6	1	.	.	.	1	1	.
$1296_2 = \chi_{69,1}$	6	3	2	6	1	.	.	.	1	1	.
$1400_4 = \chi_{70,0}$	2	5	4	4	1	1	1	2	1	.	.
$1400_5 = \chi_{70,1}$	2	5	4	4	1	1	1	2	1	.	.
$1400_6 = \chi_{71,0}$	2	3	2	4	1	.	1	.	1	1	.
$1400_7 = \chi_{71,1}$	2	3	2	4	1	.	1	.	1	1	.
$2400_1 = \chi_{72,0}$	10	6	6	10	2	2	2	2	3	.	.
$2400_2 = \chi_{72,1}$	10	6	6	10	2	2	2	2	3	.	.
$2800_1 = \chi_{73,0}$	6	7	6	6	3	2	3	2	1	1	.
$2800_2 = \chi_{73,1}$	6	7	6	6	3	2	3	2	1	1	.
$5600_1 = \chi_{74+}$	12	10	8	12	4	3	2	2	2	2	1
$3240_1 = \chi_{76,0}$	10	7	6	10	3	2	2	2	3	1	.
$3240_2 = \chi_{76,1}$	10	7	6	10	3	2	2	2	3	1	.
$3360_1 = \chi_{77,0}$	10	4	4	8	2	2	1	.	1	1	1
$3360_2 = \chi_{77,1}$	10	4	4	8	2	2	1	.	1	1	1
$7168_1 = \chi_{78+}$	8	12	14	16	2	3	4	4	4	.	2
$4200_4 = \chi_{81,0}$	18	7	8	14	3	4	1	2	3	.	1
$4200_5 = \chi_{81,1}$	18	7	8	14	3	4	1	2	3	.	1
$4536_2 = \chi_{82,0}$	12	7	8	12	2	3	1	2	2	1	1
$4536_3 = \chi_{82,1}$	12	7	8	12	2	3	1	2	2	1	1
$5600_2 = \chi_{83,0}$	20	10	10	18	4	4	2	2	4	1	1
$5600_3 = \chi_{83,1}$	20	10	10	18	4	4	2	2	4	1	1

$$\begin{array}{ll}
\varphi_{1,0} = 1_1 & \varphi_{9,0} = 160_1 \\
\varphi_{2,0} = 8_1 & \varphi_{10+} = 320_1 \\
\varphi_{3+} = 16_1 & \varphi_{12,0} = 246_1 \\
\varphi_{5,0} = 26_1 & \varphi_{13,0} = 784_1 \\
\varphi_{6,0} = 48_1 & \varphi_{14+} = 1568_1 \\
\varphi_{7+} = 96_1 &
\end{array}$$

Block 2:	$\varphi_{16,0}$	
$4096_1 = \chi_{51,0}$	1	$\varphi_{16,0} = 4096_1$
$4096_2 = \chi_{51,1}$	1	
$4096_3 = \chi_{80,0}$	1	
$4096_4 = \chi_{80,1}$	1	