

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

	blocks	defect	matrix
$G :$	1	12	52×13
	2	0	$4096_1 = \chi_{51,0}, \varphi_{16,0}$
	3	0	$4096_2 = \chi_{51,1}, \varphi_{16,1}$
	$4 = \bar{3}$	0	$4096_3 = \chi_{51,2}, \varphi_{16,2}$

Block 1:	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{1,2}$	φ_{2+}	$\varphi_{5,0}$	$\varphi_{5,1}$	$\varphi_{5,2}$	φ_{6+}	φ_{9+}	$\varphi_{12,0}$	$\varphi_{12,1}$	$\varphi_{12,2}$	φ_{13+}
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	.	1	.	.	.	.	.	.	.	.	.	.	.
$1_3 = \chi_{1,2}$	.	.	1	.	.	.	.	.	.	.	.	.	.
$28_1 = \chi_{2,0}$	.	1	1	.	1	.	.	.	.	.	.	.	.
$28_2 = \chi_{2,1}$	1	.	1	.	.	1	.	.	.	.	.	.	.
$28_3 = \chi_{2,2}$	1	1	.	.	.	.	1	.	.	.	.	.	.
$105_1 = \chi_{3+}$	1	1	1	1	1	1	1	.	.	.	.	.	.
$50_1 = \chi_{6,0}$	.	.	.	1	1	.	.	.	.	.	.	.	.
$50_2 = \chi_{6,1}$	.	.	.	1	.	1	.	.	.	.	.	.	.
$50_3 = \chi_{6,2}$	.	.	.	1	.	.	1	.	.	.	.	.	.
$252_1 = \chi_{7+}$	2	2	2	1	1	1	1	1	.	.	.	.	.
$175_1 = \chi_{10,0}$	1	2	2	.	1	.	.	1	.	.	.	.	.
$175_2 = \chi_{10,1}$	2	1	2	.	.	1	.	1	.	.	.	.	.
$175_3 = \chi_{10,2}$	2	2	1	.	.	.	1	1	.	.	.	.	.
$630_1 = \chi_{11+}$	.	.	.	3	1	1	1	.	1	.	.	.	.
$300_1 = \chi_{14,0}$	.	1	1	.	2	.	.	.	.	1	.	.	.
$300_2 = \chi_{14,1}$	1	.	1	.	.	2	.	.	.	.	1	.	.
$300_3 = \chi_{14,2}$	1	1	.	.	.	.	2	.	.	.	.	1	.
$350_1 = \chi_{15,0}$	2	.	.	1	1	1	1	.	.	1	.	.	.
$350_2 = \chi_{15,1}$	.	2	.	1	1	1	1	.	.	.	1	.	.
$350_3 = \chi_{15,2}$	.	.	2	1	1	1	1	.	.	.	.	1	.
$525_1 = \chi_{16,0}$	3	2	2	1	2	1	1	1	.	1	.	.	.
$525_2 = \chi_{16,1}$	2	3	2	1	1	2	1	1	.	.	1	.	.
$525_3 = \chi_{16,2}$	2	2	3	1	1	1	2	1	.	.	.	1	.
$1701_1 = \chi_{17+}$	3	3	3	4	3	3	3	1	1	1	1	1	.
$700_1 = \chi_{20,0}$	.	1	1	2	1	.	.	1	1	.	.	.	.
$700_2 = \chi_{20,1}$	1	.	1	2	.	1	.	1	1	.	.	.	.
$700_3 = \chi_{20,2}$	1	1	.	2	.	.	1	1	1	.	.	.	.
$2100_1 = \chi_{21+}$	6	6	6	5	4	4	4	3	1	1	1	1	.
$2520_1 = \chi_{24+}$	4	4	4	6	3	3	3	3	2	1	1	1	.
$972_1 = \chi_{27,0}$	.	1	1	2	2	.	.	1	1	1	.	.	.
$972_2 = \chi_{27,1}$	1	.	1	2	.	2	.	1	1	.	1	.	.
$972_3 = \chi_{27,2}$	1	1	.	2	.	.	2	1	1	.	.	1	.
$3150_1 = \chi_{28+}$	4	4	4	9	4	4	4	3	3	1	1	1	.
$4032_1 = \chi_{31+}$	2	2	2	6	4	4	4	.	1	1	1	1	1
$1400_1 = \chi_{34,0}$	2	2	2	4	5	1	1	1	1	2	.	.	.
$1400_2 = \chi_{34,1}$	2	2	2	4	1	5	1	1	1	.	2	.	.
$1400_3 = \chi_{34,2}$	2	2	2	4	1	1	5	1	1	.	.	2	.
$4725_1 = \chi_{35+}$	7	7	7	7	5	5	5	4	1	1	1	1	1
$6300_1 = \chi_{38+}$	4	4	4	13	5	5	5	4	4	1	1	1	1

(Block 1:)	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{1,2}$	φ_{2+}	$\varphi_{5,0}$	$\varphi_{5,1}$	$\varphi_{5,2}$	φ_{6+}	φ_{9+}	$\varphi_{12,0}$	$\varphi_{12,1}$	$\varphi_{12,2}$	φ_{13+}
$6720_1 = \chi_{41+}$	2	2	2	14	4	4	4	4	5	1	1	1	1
$6804_1 = \chi_{44+}$	8	8	8	13	8	8	8	4	3	2	2	2	1
$8505_1 = \chi_{47+}$	7	7	7	14	7	7	7	5	3	1	1	1	2
$3200_1 = \chi_{50,0}$	6	2	2	4	2	3	3	2	.	1	.	.	1
$3200_2 = \chi_{50,1}$	2	6	2	4	3	2	3	2	.	.	1	.	1
$3200_3 = \chi_{50,2}$	2	2	6	4	3	3	2	2	.	.	.	1	1
$4200_1 = \chi_{52,0}$	6	4	4	6	5	3	3	3	1	2	.	.	1
$4200_2 = \chi_{52,1}$	4	6	4	6	3	5	3	3	1	.	2	.	1
$4200_3 = \chi_{52,2}$	4	4	6	6	3	3	5	3	1	.	.	2	1
$6075_1 = \chi_{53,0}$	5	6	6	11	7	5	5	4	3	2	1	1	1
$6075_2 = \chi_{53,1}$	6	5	6	11	5	7	5	4	3	1	2	1	1
$6075_3 = \chi_{53,2}$	6	6	5	11	5	5	7	4	3	1	1	2	1

$$\begin{array}{ll}
\varphi_{1,0} & = 1_1 \\
\varphi_{1,1} & = 1_2 \\
\varphi_{1,2} & = 1_3 \\
\varphi_{2+} & = 24_1 \\
\varphi_{5,0} & = 26_1 \\
\varphi_{5,1} & = 26_2 \\
\varphi_{5,2} & = 26_3 \\
\varphi_{6+} & = 144_1 \\
\varphi_{9+} & = 480_1 \\
\varphi_{12,0} & = 246_1 \\
\varphi_{12,1} & = 246_2 \\
\varphi_{12,2} & = 246_3 \\
\varphi_{13+} & = 2352_1
\end{array}$$