

$O_8^-(3).2_3 \pmod{2}$

	blocks	defect	matrix
$G :$	1	11	77×9
	2	7	19×3
	3	3	5×1
	4	3	5×1
	5	0	$931840_1 = \chi_{89+}, \varphi_{22+}$

	blocks	defect	matrix
	6	0	$931840_2 = \chi_{91+}, \varphi_{24+}$
	7	0	$931840_3 = \chi_{93+}, \varphi_{26+}$
	8	0	$931840_4 = \chi_{95+}, \varphi_{28+}$
	9	0	$931840_5 = \chi_{97+}, \varphi_{30+}$
	10	3	8×1

Block 1:	$\varphi_{1,0}$	$\varphi_{2,0}$	φ_{3+}	φ_{5+}	$\varphi_{7,0}$	$\varphi_{8,0}$	φ_{9+}	φ_{11+}	φ_{18+}
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	1	.	.	.	.	.	.	.	.
$246_1 = \chi_{2,0}$	.	1	.	.	.	.	.	.	.
$246_2 = \chi_{2,1}$	.	1	.	.	.	.	.	.	.
$574_1 = \chi_{3+}$	2	.	1	.	.	.	.	.	.
$1066_1 = \chi_{5+}$	2	2	1	.	.	.	.	.	.
$574_2 = \chi_{7,0}$	2	.	1	.	.	.	.	.	.
$574_3 = \chi_{7,1}$	2	.	1	.	.	.	.	.	.
$819_1 = \chi_{8,0}$	1	1	1	.	.	.	.	.	.
$819_2 = \chi_{8,1}$	1	1	1	.	.	.	.	.	.
$7462_1 = \chi_{9+}$	2	2	2	1	.	.	.	.	.
$7749_1 = \chi_{11,0}$	1	.	.	.	.	1	.	.	.
$7749_2 = \chi_{11,1}$	1	.	.	.	.	1	.	.	.
$7749_3 = \chi_{12,0}$	1	.	1	.	1	.	.	.	.
$7749_4 = \chi_{12,1}$	1	.	1	.	1	.	.	.	.
$22386_1 = \chi_{13+}$	2	2	1	1	.	2	.	.	.
$22386_2 = \chi_{15+}$	2	2	3	1	2	.	.	.	.
$14391_1 = \chi_{17,0}$	1	1	1	1	.	1	.	.	.
$14391_2 = \chi_{17,1}$	1	1	1	1	.	1	.	.	.
$14391_3 = \chi_{18,0}$	1	1	2	1	1	.	.	.	.
$14391_4 = \chi_{18,1}$	1	1	2	1	1	.	.	.	.
$14924_1 = \chi_{19,0}$	.	.	.	.	1	1	.	.	.
$14924_2 = \chi_{19,1}$	.	.	.	.	1	1	.	.	.
$29848_1 = \chi_{20+}$	.	.	.	.	.	.	1	.	.
$21320_1 = \chi_{22,0}$	.	.	.	1	.	2	.	.	.
$21320_2 = \chi_{22,1}$	.	.	.	1	.	2	.	.	.
$22386_3 = \chi_{23,0}$	2	2	2	1	1	1	.	.	.
$22386_4 = \chi_{23,1}$	2	2	2	1	1	1	.	.	.
$22386_5 = \chi_{24,0}$	2	2	3	1	2	.	.	.	.
$22386_6 = \chi_{24,1}$	2	2	3	1	2	.	.	.	.
$51660_1 = \chi_{25+}$	.	2	2	1	2	.	1	.	.
$67158_1 = \chi_{27+}$	2	2	2	1	2	2	1	.	.
$67158_2 = \chi_{29+}$	2	2	4	1	4	.	1	.	.
$74620_1 = \chi_{31+}$	4	4	6	2	4	.	1	.	.
$44772_1 = \chi_{33,0}$	.	.	.	.	1	1	1	.	.
$44772_2 = \chi_{33,1}$	.	.	.	.	1	1	1	.	.
$95940_1 = \chi_{34+}$	4	4	6	3	4	2	1	.	.
$51660_2 = \chi_{36,0}$	.	2	2	1	2	.	1	.	.
$51660_3 = \chi_{36,1}$	.	2	2	1	2	.	1	.	.
$59696_1 = \chi_{37,0}$	.	.	.	.	2	2	1	.	.

(Block 1:)	$\varphi_{1,0}$	$\varphi_{2,0}$	φ_{3+}	φ_{5+}	$\varphi_{7,0}$	$\varphi_{8,0}$	φ_{9+}	φ_{11+}	φ_{18+}
$59696_2 = \chi_{37,1}$	.	.	.	.	2	2	1	.	.
$66339_1 = \chi_{40,0}$	1	1	2	1	3	1	1	.	.
$66339_2 = \chi_{40,1}$	1	1	2	1	3	1	1	.	.
$149240_1 = \chi_{41+}$	.	.	.	1	2	2	.	1	.
$201474_1 = \chi_{43+}$	2	2	3	2	4	2	1	1	.
$201474_2 = \chi_{45+}$	2	2	5	2	6	.	1	1	.
$127920_1 = \chi_{51,0}$	.	.	.	.	2	.	.	1	.
$127920_2 = \chi_{51,1}$	.	.	.	.	2	.	.	1	.
$134316_1 = \chi_{52,0}$	.	.	.	1	1	1	.	1	.
$134316_2 = \chi_{52,1}$	.	.	.	1	1	1	.	1	.
$268632_1 = \chi_{53+}$	.	.	.	.	.	.	1	.	1
$179334_1 = \chi_{59,0}$	.	1	2	1	4	.	1	1	.
$179334_2 = \chi_{59,1}$	.	1	2	1	4	.	1	1	.
$201474_3 = \chi_{60,0}$	2	2	4	2	5	1	1	1	.
$201474_4 = \chi_{60,1}$	2	2	4	2	5	1	1	1	.
$201474_5 = \chi_{61,0}$	2	2	3	2	4	2	1	1	.
$201474_6 = \chi_{61,1}$	2	2	3	2	4	2	1	1	.
$418446_1 = \chi_{62+}$	2	.	1	1	2	2	1	1	1
$223860_1 = \chi_{64,0}$	4	4	6	3	6	2	1	1	.
$223860_2 = \chi_{64,1}$	4	4	6	3	6	2	1	1	.
$447720_1 = \chi_{65+}$	.	.	.	1	2	2	2	1	1
$596960_1 = \chi_{69+}$	.	.	.	2	4	4	2	2	1
$604422_1 = \chi_{71+}$	2	2	4	3	6	2	2	2	1
$671580_1 = \chi_{73+}$	4	4	6	4	8	4	3	2	1
$777114_1 = \chi_{85+}$	2	2	5	3	10	2	3	3	1
$402948_1 = \chi_{87,0}$	.	.	.	1	1	1	1	1	1
$402948_2 = \chi_{87,1}$	.	.	.	1	1	1	1	1	1
$418446_2 = \chi_{88,0}$	2	.	1	1	2	2	1	1	1
$418446_3 = \chi_{88,1}$	2	.	1	1	2	2	1	1	1
$531441_1 = \chi_{103,0}$	1	.	1	1	3	1	1	2	1
$531441_2 = \chi_{103,1}$	1	.	1	1	3	1	1	2	1
$537264_1 = \chi_{104,0}$	.	.	.	2	2	2	1	2	1
$537264_2 = \chi_{104,1}$	.	.	.	2	2	2	1	2	1
$575640_1 = \chi_{107,0}$	.	.	.	1	4	2	2	2	1
$575640_2 = \chi_{107,1}$	.	.	.	1	4	2	2	2	1
$596960_2 = \chi_{108,0}$	.	.	.	2	4	4	2	2	1
$596960_3 = \chi_{108,1}$	.	.	.	2	4	4	2	2	1

$$\begin{aligned}
\varphi_{1,0} &= 1_1 & \varphi_{8,0} &= 7748_1 \\
\varphi_{2,0} &= 246_1 & \varphi_{9+} &= 29848_1 \\
\varphi_{3+} &= 572_1 & \varphi_{11+} &= 113568_1 \\
\varphi_{5+} &= 5824_1 & \varphi_{18+} &= 238784_3 \\
\varphi_{7,0} &= 7176_1 & &
\end{aligned}$$

Block 2:	$\varphi_{13,0}$	φ_{14+}	φ_{16+}
$59696_3 = \chi_{38,0}$	1	.	.
$59696_4 = \chi_{38,1}$	1	.	.
$59696_5 = \chi_{39,0}$	1	.	.
$59696_6 = \chi_{39,1}$	1	.	.
$238784_1 = \chi_{47+}$	.	1	.
$238784_2 = \chi_{49+}$	.	.	1
$358176_1 = \chi_{55+}$	2	.	1
$358176_2 = \chi_{57+}$	2	.	1
$238784_3 = \chi_{67,0}$	.	1	.
$238784_4 = \chi_{67,1}$	.	1	.
$238784_5 = \chi_{68,0}$	.	1	.
$238784_6 = \chi_{68,1}$	.	1	.
$716352_1 = \chi_{75+}$	.	2	1
$955136_1 = \chi_{99+}$	4	1	2
$955136_2 = \chi_{101+}$	.	2	2
$537264_3 = \chi_{105,0}$	1	1	1
$537264_4 = \chi_{105,1}$	1	1	1
$537264_5 = \chi_{106,0}$	1	1	1
$537264_6 = \chi_{106,1}$	1	1	1

$$\begin{aligned} \varphi_{13,0} &= 59696_1 \\ \varphi_{14+} &= 238784_1 \\ \varphi_{16+} &= 238784_2 \end{aligned}$$

Block 3:	$\varphi_{20,0}$
$367360_1 = \chi_{77,0}$	1
$367360_2 = \chi_{77,1}$	1
$367360_5 = \chi_{79,0}$	1
$367360_6 = \chi_{79,1}$	1
$734720_1 = \chi_{81+}$	2

$$\varphi_{20,0} = 367360_1$$

Block 4:	$\varphi_{21,0}$
$367360_3 = \chi_{78,0}$	1
$367360_4 = \chi_{78,1}$	1
$367360_7 = \chi_{80,0}$	1
$367360_8 = \chi_{80,1}$	1
$734720_2 = \chi_{82+}$	2

$$\varphi_{21,0} = 367360_2$$

Block 10:	$\varphi_{32,0}$
$682240_1 = \chi_{109,0}$	1
$682240_2 = \chi_{109,1}$	1
$682240_3 = \chi_{110,0}$	1
$682240_4 = \chi_{110,1}$	1
$682240_5 = \chi_{111,0}$	1
$682240_6 = \chi_{111,1}$	1
$682240_7 = \chi_{112,0}$	1
$682240_8 = \chi_{112,1}$	1

$$\varphi_{32,0} = 682240_1$$