

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

	blocks	defect	matrix
$G :$	1	10	$70 \times 14$
	2	6	$20 \times 5$
	3	2	$4 \times 1$
	4	2	$4 \times 1$
	5	0	$465920_1 = \chi_{89}, \varphi_{22}$
	6	0	$465920_2 = \chi_{90}, \varphi_{23}$
	7	0	$465920_3 = \chi_{91}, \varphi_{24}$
	8	0	$465920_4 = \chi_{92}, \varphi_{25}$

	blocks	defect	matrix
	9	0	$465920_5 = \chi_{93}, \varphi_{26}$
	10	0	$465920_6 = \chi_{94}, \varphi_{27}$
	11	0	$465920_7 = \chi_{95}, \varphi_{28}$
	12	0	$465920_8 = \chi_{96}, \varphi_{29}$
	13	0	$465920_9 = \chi_{97}, \varphi_{30}$
	14	0	$465920_{10} = \chi_{98}, \varphi_{31}$
	15	2	$4 \times 1$

<b>Block 1:</b>	$\varphi_1$	$\varphi_2$	$\varphi_3$	$\varphi_4$	$\varphi_5$	$\varphi_6$	$\varphi_7$	$\varphi_8$	$\varphi_9$	$\varphi_{10}$	$\varphi_{11}$	$\varphi_{12}$	$\varphi_{18}$	$\varphi_{19}$
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	.	.	.	.	.	.
$246_1 = \chi_2$	.	1	.	.	.	.	.	.	.	.	.	.	.	.
$287_1 = \chi_3$	1	.	1	.	.	.	.	.	.	.	.	.	.	.
$287_2 = \chi_4$	1	.	.	1	.	.	.	.	.	.	.	.	.	.
$533_1 = \chi_5$	1	1	1	.	.	.	.	.	.	.	.	.	.	.
$533_2 = \chi_6$	1	1	.	1	.	.	.	.	.	.	.	.	.	.
$574_1 = \chi_7$	2	.	1	1	.	.	.	.	.	.	.	.	.	.
$819_1 = \chi_8$	1	1	1	1	.	.	.	.	.	.	.	.	.	.
$3731_1 = \chi_9$	1	1	2	.	1	.	.	.	.	.	.	.	.	.
$3731_2 = \chi_{10}$	1	1	.	2	.	1	.	.	.	.	.	.	.	.
$7749_1 = \chi_{11}$	1	.	.	.	.	.	.	1	.	.	.	.	.	.
$7749_2 = \chi_{12}$	1	.	1	1	.	.	1	.	.	.	.	.	.	.
$11193_1 = \chi_{13}$	1	1	1	.	1	.	.	1	.	.	.	.	.	.
$11193_2 = \chi_{14}$	1	1	.	1	.	1	.	1	.	.	.	.	.	.
$11193_3 = \chi_{15}$	1	1	2	1	1	.	1	.	.	.	.	.	.	.
$11193_4 = \chi_{16}$	1	1	1	2	.	1	1	.	.	.	.	.	.	.
$14391_1 = \chi_{17}$	1	1	1	1	1	1	.	1	.	.	.	.	.	.
$14391_2 = \chi_{18}$	1	1	2	2	1	1	1	.	.	.	.	.	.	.
$14924_1 = \chi_{19}$	.	.	.	.	.	.	1	1	.	.	.	.	.	.
$14924_2 = \chi_{20}$	.	.	.	.	.	.	.	.	1	.	.	.	.	.
$14924_3 = \chi_{21}$	.	.	.	.	.	.	.	.	.	1	.	.	.	.
$21320_1 = \chi_{22}$	.	.	.	.	1	1	.	2	.	.	.	.	.	.
$22386_1 = \chi_{23}$	2	2	2	2	1	1	1	1	.	.	.	.	.	.
$22386_2 = \chi_{24}$	2	2	3	3	1	1	2	.	.	.	.	.	.	.
$25830_1 = \chi_{25}$	.	1	2	.	1	.	1	.	1	.	.	.	.	.
$25830_2 = \chi_{26}$	.	1	.	2	.	1	1	.	.	1	.	.	.	.
$33579_1 = \chi_{27}$	1	1	2	.	1	.	1	1	1	.	.	.	.	.
$33579_2 = \chi_{28}$	1	1	.	2	.	1	1	1	.	1	.	.	.	.
$33579_3 = \chi_{29}$	1	1	3	1	1	.	2	.	1	.	.	.	.	.
$33579_4 = \chi_{30}$	1	1	1	3	.	1	2	.	.	1	.	.	.	.
$37310_1 = \chi_{31}$	2	2	3	3	1	1	2	.	1	.	.	.	.	.
$37310_2 = \chi_{32}$	2	2	3	3	1	1	2	.	.	1	.	.	.	.
$44772_1 = \chi_{33}$	.	.	.	.	.	.	1	1	1	1	.	.	.	.
$47970_1 = \chi_{34}$	2	2	4	2	2	1	2	1	1	.	.	.	.	.
$47970_2 = \chi_{35}$	2	2	2	4	1	2	2	1	.	1	.	.	.	.
$51660_1 = \chi_{36}$	.	2	2	2	1	1	2	.	1	1	.	.	.	.
$59696_1 = \chi_{37}$	.	.	.	.	.	.	2	2	1	1	.	.	.	.
$66339_1 = \chi_{40}$	1	1	2	2	1	1	3	1	1	1	.	.	.	.
$74620_1 = \chi_{41}$	.	.	.	.	1	.	1	1	.	.	1	.	.	.
$74620_2 = \chi_{42}$	.	.	.	.	.	1	1	1	.	.	.	1	.	.

(Block 1:)	$\varphi_1$	$\varphi_2$	$\varphi_3$	$\varphi_4$	$\varphi_5$	$\varphi_6$	$\varphi_7$	$\varphi_8$	$\varphi_9$	$\varphi_{10}$	$\varphi_{11}$	$\varphi_{12}$	$\varphi_{18}$	$\varphi_{19}$
100737 <sub>1</sub> = $\chi_{43}$	1	1	2	1	1	1	2	1	1	.	.	1	.	.
100737 <sub>2</sub> = $\chi_{44}$	1	1	1	2	1	1	2	1	.	1	1	.	.	.
100737 <sub>3</sub> = $\chi_{45}$	1	1	3	2	1	1	3	.	1	.	.	1	.	.
100737 <sub>4</sub> = $\chi_{46}$	1	1	2	3	1	1	3	.	.	1	1	.	.	.
127920 <sub>1</sub> = $\chi_{51}$	.	.	.	.	.	.	2	.	.	.	1	1	.	.
134316 <sub>1</sub> = $\chi_{52}$	.	.	.	.	1	1	1	1	.	.	1	1	.	.
134316 <sub>2</sub> = $\chi_{53}$	.	.	.	.	.	.	.	.	1	.	.	.	1	.
134316 <sub>3</sub> = $\chi_{54}$	.	.	.	.	.	.	.	.	.	1	.	.	.	1
179334 <sub>1</sub> = $\chi_{59}$	.	1	2	2	1	1	4	.	1	1	1	1	.	.
201474 <sub>1</sub> = $\chi_{60}$	2	2	4	4	2	2	5	1	1	1	1	1	.	.
201474 <sub>2</sub> = $\chi_{61}$	2	2	3	3	2	2	4	2	1	1	1	1	.	.
209223 <sub>1</sub> = $\chi_{62}$	1	.	1	.	1	.	1	1	1	.	1	.	1	.
209223 <sub>2</sub> = $\chi_{63}$	1	.	.	1	.	1	1	1	.	1	.	1	.	1
223860 <sub>1</sub> = $\chi_{64}$	4	4	6	6	3	3	6	2	1	1	1	1	.	.
223860 <sub>2</sub> = $\chi_{65}$	.	.	.	.	1	.	1	1	1	1	1	.	1	.
223860 <sub>3</sub> = $\chi_{66}$	.	.	.	.	.	1	1	1	1	1	.	1	.	1
298480 <sub>1</sub> = $\chi_{69}$	.	.	.	.	2	.	2	2	1	1	2	.	1	.
298480 <sub>2</sub> = $\chi_{70}$	.	.	.	.	.	2	2	2	1	1	.	2	.	1
302211 <sub>1</sub> = $\chi_{71}$	1	1	3	1	2	1	3	1	2	.	1	1	1	.
302211 <sub>2</sub> = $\chi_{72}$	1	1	1	3	1	2	3	1	.	2	1	1	.	1
335790 <sub>1</sub> = $\chi_{73}$	2	2	3	3	2	2	4	2	2	1	1	1	1	.
335790 <sub>2</sub> = $\chi_{74}$	2	2	3	3	2	2	4	2	1	2	1	1	.	1
388557 <sub>1</sub> = $\chi_{85}$	1	1	3	2	2	1	5	1	2	1	2	1	1	.
388557 <sub>2</sub> = $\chi_{86}$	1	1	2	3	1	2	5	1	1	2	1	2	.	1
402948 <sub>1</sub> = $\chi_{87}$	.	.	.	.	1	1	1	1	1	1	1	1	1	1
418446 <sub>1</sub> = $\chi_{88}$	2	.	1	1	1	1	2	2	1	1	1	1	1	1
531441 <sub>1</sub> = $\chi_{103}$	1	.	1	1	1	1	3	1	1	1	2	2	1	1
537264 <sub>1</sub> = $\chi_{104}$	.	.	.	.	2	2	2	2	1	1	2	2	1	1
575640 <sub>1</sub> = $\chi_{107}$	.	.	.	.	1	1	4	2	2	2	2	2	1	1
596960 <sub>1</sub> = $\chi_{108}$	.	.	.	.	2	2	4	4	2	2	2	2	1	1

$$\begin{aligned}
\varphi_1 &= 1_1 & \varphi_8 &= 7748_1 \\
\varphi_2 &= 246_1 & \varphi_9 &= 14924_1 \\
\varphi_3 &= 286_1 & \varphi_{10} &= 14924_2 \\
\varphi_4 &= 286_2 & \varphi_{11} &= 56784_1 \\
\varphi_5 &= 2912_1 & \varphi_{12} &= 56784_2 \\
\varphi_6 &= 2912_2 & \varphi_{18} &= 119392_5 \\
\varphi_7 &= 7176_1 & \varphi_{19} &= 119392_6
\end{aligned}$$

<b>Block 2:</b>	$\varphi_{13}$	$\varphi_{14}$	$\varphi_{15}$	$\varphi_{16}$	$\varphi_{17}$	
$59696_2 = \chi_{38}$	1	.	.	.	.	
$59696_3 = \chi_{39}$	1	.	.	.	.	
$119392_1 = \chi_{47}$	.	1	.	.	.	
$119392_2 = \chi_{48}$	.	.	1	.	.	
$119392_3 = \chi_{49}$	.	.	.	1	.	
$119392_4 = \chi_{50}$	.	.	.	.	1	
$179088_1 = \chi_{55}$	1	.	.	.	1	
$179088_2 = \chi_{56}$	1	.	.	1	.	$\varphi_{13} = 59696_1$
$179088_3 = \chi_{57}$	1	.	.	.	1	$\varphi_{14} = 119392_1$
$179088_4 = \chi_{58}$	1	.	.	1	.	$\varphi_{15} = 119392_2$
$238784_1 = \chi_{67}$	.	1	1	.	.	$\varphi_{16} = 119392_3$
$238784_2 = \chi_{68}$	.	1	1	.	.	$\varphi_{17} = 119392_4$
$358176_1 = \chi_{75}$	.	1	1	1	.	
$358176_2 = \chi_{76}$	.	1	1	.	1	
$477568_1 = \chi_{99}$	2	1	.	1	1	
$477568_2 = \chi_{100}$	2	.	1	1	1	
$477568_3 = \chi_{101}$	.	1	1	2	.	
$477568_4 = \chi_{102}$	.	1	1	.	2	
$537264_2 = \chi_{105}$	1	1	1	1	1	
$537264_3 = \chi_{106}$	1	1	1	1	1	

<b>Block 3:</b>	$\varphi_{20}$	
$367360_1 = \chi_{77}$	1	
$367360_3 = \chi_{79}$	1	$\varphi_{20} = 367360_1$
$367360_5 = \chi_{81}$	1	
$367360_7 = \chi_{83}$	1	

<b>Block 4:</b>	$\varphi_{21}$	
$367360_2 = \chi_{78}$	1	
$367360_4 = \chi_{80}$	1	$\varphi_{21} = 367360_2$
$367360_6 = \chi_{82}$	1	
$367360_8 = \chi_{84}$	1	

<b>Block 15:</b>	$\varphi_{32}$
$682240_1 = \chi_{109}$	1
$682240_2 = \chi_{110}$	1
$682240_3 = \chi_{111}$	1
$682240_4 = \chi_{112}$	1

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