

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

	blocks	defect	matrix
$G :$	1	4	23×10
	2	4	23×10
	3	2	9×5
	4	1	3×2
	5	0	$5670_1 = \chi_{29+}, \varphi_{16+}$
	6	0	$5670_2 = \chi_{31+}, \varphi_{18+}$

Block 1:	$\varphi_{1,0}$	$\varphi_{2,1}$	$\varphi_{3,1}$	$\varphi_{4,0}$	$\varphi_{5,0}$	$\varphi_{6,1}$	$\varphi_{7,0}$	$\varphi_{8,0}$	$\varphi_{9,0}$	$\varphi_{15,1}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.
$34_2 = \chi_{2,1}$	.	1	.	.	.	.	.	.	.	.
$51_2 = \chi_{3,1}$	1	.	1	.	.	.	.	.	.	.
$84_2 = \chi_{4,1}$	.	1	1	.	.	.	.	.	.	.
$204_1 = \chi_{5,0}$	1	.	.	.	1	.	.	.	.	.
$204_3 = \chi_{6,0}$	.	.	1	1	.	.	.	.	.	.
$357_1 = \chi_{7,0}$	.	.	.	1	1	.	.	.	.	.
$476_1 = \chi_{8,0}$	1	.	.	.	.	.	1	.	.	.
$476_4 = \chi_{9,1}$	.	1	1	.	.	1	.	.	.	.
$595_2 = \chi_{10,1}$	.	.	.	.	1	1	.	.	.	.
$714_1 = \chi_{11,0}$	.	.	.	.	1	.	.	1	.	.
$714_3 = \chi_{12,0}$	1	1	1	1	.	.	1	.	.	.
$1020_1 = \chi_{13,0}$	.	1	.	.	.	.	1	1	.	.
$1190_2 = \chi_{18,1}$	.	.	.	1	.	.	.	.	1	.
$1344_1 = \chi_{19,0}$	1	.	.	1	1	.	1	1	.	.
$1428_2 = \chi_{20,1}$	.	.	.	.	.	1	.	.	1	.
$2176_1 = \chi_{25,0}$	.	.	.	1	.	.	1	1	1	.
$2856_2 = \chi_{33,1}$	.	.	.	.	.	1	.	.	.	1
$2856_3 = \chi_{34,0}$	1	1	1	1	1	1	1	1	1	.
$3264_2 = \chi_{35,1}$	1	.	1	1	1	1	.	.	.	1
$4096_2 = \chi_{36,1}$	.	.	1	1	.	1	.	.	1	1
$4760_2 = \chi_{38,1}$	.	.	.	1	1	1	.	1	1	1
$5355_2 = \chi_{39,1}$	.	.	.	2	.	.	.	1	2	1

$\varphi_{1,0} = 1_1$	$\varphi_{6,1} = 392_2$
$\varphi_{2,1} = 34_2$	$\varphi_{7,0} = 475_1$
$\varphi_{3,1} = 50_2$	$\varphi_{8,0} = 511_1$
$\varphi_{4,0} = 154_1$	$\varphi_{9,0} = 1036_1$
$\varphi_{5,0} = 203_1$	$\varphi_{15,1} = 2464_2$

Block 2:	$\varphi_{1,1}$	$\varphi_{2,0}$	$\varphi_{3,0}$	$\varphi_{4,1}$	$\varphi_{5,1}$	$\varphi_{6,0}$	$\varphi_{7,1}$	$\varphi_{8,1}$	$\varphi_{9,1}$	$\varphi_{15,0}$
$1_2 = \chi_{1,1}$	1	.	.	.	.	.	.	.	.	.
$34_1 = \chi_{2,0}$	.	1	.	.	.	.	.	.	.	.
$51_1 = \chi_{3,0}$	1	.	1	.	.	.	.	.	.	.
$84_1 = \chi_{4,0}$	.	1	1	.	.	.	.	.	.	.
$204_2 = \chi_{5,1}$	1	.	.	.	1	.	.	.	.	.
$204_4 = \chi_{6,1}$	.	.	1	1	.	.	.	.	.	.
$357_2 = \chi_{7,1}$	.	.	.	1	1	.	.	.	.	.
$476_2 = \chi_{8,1}$	1	.	.	.	.	.	1	.	.	.
$476_3 = \chi_{9,0}$	.	1	1	.	.	1	.	.	.	.
$595_1 = \chi_{10,0}$	.	.	.	.	1	1	.	.	.	.
$714_2 = \chi_{11,1}$	.	.	.	.	1	.	.	1	.	.
$714_4 = \chi_{12,1}$	1	1	1	1	.	.	1	.	.	.
$1020_2 = \chi_{13,1}$	.	1	.	.	.	.	1	1	.	.
$1190_1 = \chi_{18,0}$	.	.	.	1	.	.	.	.	1	.
$1344_2 = \chi_{19,1}$	1	.	.	1	1	.	1	1	.	.
$1428_1 = \chi_{20,0}$	.	.	.	.	.	1	.	.	1	.
$2176_2 = \chi_{25,1}$	.	.	.	1	.	.	1	1	1	.
$2856_1 = \chi_{33,0}$	.	.	.	.	.	1	.	.	.	1
$2856_4 = \chi_{34,1}$	1	1	1	1	1	1	1	1	1	.
$3264_1 = \chi_{35,0}$	1	.	1	1	1	1	.	.	.	1
$4096_1 = \chi_{36,0}$	.	.	1	1	.	1	.	.	1	1
$4760_1 = \chi_{38,0}$	.	.	.	1	1	1	.	1	1	1
$5355_1 = \chi_{39,0}$	.	.	.	2	.	.	.	1	2	1

$$\begin{aligned}
\varphi_{1,1} &= 1_2 & \varphi_{6,0} &= 392_1 \\
\varphi_{2,0} &= 34_1 & \varphi_{7,1} &= 475_2 \\
\varphi_{3,0} &= 50_1 & \varphi_{8,1} &= 511_2 \\
\varphi_{4,1} &= 154_2 & \varphi_{9,1} &= 1036_2 \\
\varphi_{5,1} &= 203_2 & \varphi_{15,0} &= 2464_1
\end{aligned}$$

Block 3:	$\varphi_{10,0}$	$\varphi_{10,1}$	$\varphi_{11,0}$	$\varphi_{11,1}$	φ_{12+}	
$1071_1 = \chi_{14,0}$	1	.	.	.	.
$1071_2 = \chi_{14,1}$	.	1	.	.	.	$\varphi_{10,0} = 1071_1$
$1071_3 = \chi_{15,0}$	.	.	1	.	.	$\varphi_{10,1} = 1071_2$
$1071_4 = \chi_{15,1}$	.	.	.	1	.	$\varphi_{11,0} = 1071_3$
$2142_1 = \chi_{16+}$	.	.	.	.	1	$\varphi_{11,1} = 1071_4$
$4284_1 = \chi_{21+}$	.	.	1	1	1	$\varphi_{12+} = 2142_1$
$4284_2 = \chi_{23+}$	1	1	.	.	1	
$4284_3 = \chi_{37,0}$	1	.	1	.	1	
$4284_4 = \chi_{37,1}$	.	1	.	1	1	

Block 4:	$\varphi_{14,0}$	$\varphi_{14,1}$
$2295_1 = \chi_{26,0}$	1	.
$2295_2 = \chi_{26,1}$	.	1
$4590_1 = \chi_{27+}$	1	1

$$\begin{aligned} \varphi_{14,0} &= 2295_1 \\ \varphi_{14,1} &= 2295_2 \end{aligned}$$