

$O_8^+(2).3 \pmod{5}$ 

	blocks	defect	matrix
$G :$	1	2	$16 \times 14$
	2	1	$5 \times 4$
	3	0	$50_1 = \chi_{6,0}, \varphi_{6,0}$
	4	0	$50_2 = \chi_{6,1}, \varphi_{6,1}$
	$5 = \bar{4}$	0	$50_3 = \chi_{6,2}, \varphi_{6,2}$
	6	0	$175_1 = \chi_{10,0}, \varphi_{10,0}$
	7	0	$175_2 = \chi_{10,1}, \varphi_{10,1}$
	$8 = \bar{7}$	0	$175_3 = \chi_{10,2}, \varphi_{10,2}$
	9	0	$300_1 = \chi_{14,0}, \varphi_{14,0}$
	10	0	$300_2 = \chi_{14,1}, \varphi_{14,1}$
	$11 = \bar{10}$	0	$300_3 = \chi_{14,2}, \varphi_{14,2}$
	12	0	$350_1 = \chi_{15,0}, \varphi_{15,0}$
	13	0	$350_2 = \chi_{15,1}, \varphi_{15,1}$
	$14 = \bar{13}$	0	$350_3 = \chi_{15,2}, \varphi_{15,2}$
	15	0	$525_1 = \chi_{16,0}, \varphi_{16,0}$
	16	0	$525_2 = \chi_{16,1}, \varphi_{16,1}$
	$17 = \bar{16}$	0	$525_3 = \chi_{16,2}, \varphi_{16,2}$
	18	0	$700_1 = \chi_{20,0}, \varphi_{20,0}$
	19	0	$700_2 = \chi_{20,1}, \varphi_{20,1}$
	$20 = \bar{19}$	0	$700_3 = \chi_{20,2}, \varphi_{20,2}$
	21	0	$2100_1 = \chi_{21+}, \varphi_{21+}$
	22	0	$3150_1 = \chi_{28+}, \varphi_{28+}$
	23	0	$1400_1 = \chi_{34,0}, \varphi_{31,0}$
	24	0	$1400_2 = \chi_{34,1}, \varphi_{31,1}$
	$25 = \bar{24}$	0	$1400_3 = \chi_{34,2}, \varphi_{31,2}$
	26	0	$4725_1 = \chi_{35+}, \varphi_{32+}$
	27	0	$6300_1 = \chi_{38+}, \varphi_{39+}$
	28	0	$3200_1 = \chi_{50,0}, \varphi_{42,0}$
	29	0	$3200_2 = \chi_{50,1}, \varphi_{42,1}$
	$30 = \bar{29}$	0	$3200_3 = \chi_{50,2}, \varphi_{42,2}$
	31	0	$4200_1 = \chi_{52,0}, \varphi_{43,0}$
	32	0	$4200_2 = \chi_{52,1}, \varphi_{43,1}$
	$33 = \bar{32}$	0	$4200_3 = \chi_{52,2}, \varphi_{43,2}$
	34	0	$6075_1 = \chi_{53,0}, \varphi_{44,0}$
	35	0	$6075_2 = \chi_{53,1}, \varphi_{44,1}$
	$36 = \bar{35}$	0	$6075_3 = \chi_{53,2}, \varphi_{44,2}$

<b>Block 1:</b>	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{1,2}$	$\varphi_{2,0}$	$\varphi_{2,1}$	$\varphi_{2,2}$	$\varphi_{7+}$	$\varphi_{17+}$	$\varphi_{24,0}$	$\varphi_{24,1}$	$\varphi_{24,2}$	$\varphi_{35,0}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	.	1	.	.	.	.	.	.	.	.	.	.
$1_3 = \chi_{1,2}$	.	.	1	.	.	.	.	.	.	.	.	.
$28_1 = \chi_{2,0}$	.	.	.	1	.	.	.	.	.	.	.	.
$28_2 = \chi_{2,1}$	.	.	.	.	1	.	.	.	.	.	.	.
$28_3 = \chi_{2,2}$	.	.	.	.	.	1	.	.	.	.	.	.
$252_1 = \chi_{7+}$	1	1	1	.	.	.	1	.	.	.	.	.
$1701_1 = \chi_{17+}$	.	.	.	1	1	1	.	1	.	.	.	.
$972_1 = \chi_{27,0}$	1	.	.	.	.	.	1	.	1	.	.	.
$972_2 = \chi_{27,1}$	.	1	.	.	.	.	1	.	.	1	.	.
$972_3 = \chi_{27,2}$	.	.	1	.	.	.	1	.	.	.	1	.
$4032_1 = \chi_{31+}$	.	.	.	.	.	.	1	1	1	1	1	.
$6804_1 = \chi_{44+}$	.	.	.	.	.	.	.	1	.	.	.	1
$4096_1 = \chi_{51,0}$	.	.	.	1	.	.	.	1	1	.	.	1
$4096_2 = \chi_{51,1}$	.	.	.	.	1	.	.	1	.	1	.	.
$4096_3 = \chi_{51,2}$	.	.	.	.	.	1	.	1	.	.	1	.

<b>(Block 1:)</b>	$\varphi_{35,1}$	$\varphi_{35,2}$	
$1_1 = \chi_{1,0}$	.	.	$\varphi_{1,0} = 1_1$
$1_2 = \chi_{1,1}$	.	.	$\varphi_{1,1} = 1_2$
$1_3 = \chi_{1,2}$	.	.	$\varphi_{1,2} = 1_3$
$28_1 = \chi_{2,0}$	.	.	$\varphi_{2,0} = 28_1$
$28_2 = \chi_{2,1}$	.	.	$\varphi_{2,1} = 28_2$
$28_3 = \chi_{2,2}$	.	.	$\varphi_{2,2} = 28_3$
$252_1 = \chi_{7+}$	.	.	$\varphi_{7+} = 249_1$
$1701_1 = \chi_{17+}$	.	.	$\varphi_{17+} = 1617_1$
$972_1 = \chi_{27,0}$	.	.	$\varphi_{24,0} = 722_1$
$972_2 = \chi_{27,1}$	.	.	$\varphi_{24,1} = 722_2$
$972_3 = \chi_{27,2}$	.	.	$\varphi_{24,2} = 722_3$
$4032_1 = \chi_{31+}$	.	.	$\varphi_{35,0} = 1729_1$
$6804_1 = \chi_{44+}$	1	1	$\varphi_{35,1} = 1729_2$
$4096_1 = \chi_{51,0}$	.	.	$\varphi_{35,2} = 1729_3$
$4096_2 = \chi_{51,1}$	1	.	
$4096_3 = \chi_{51,2}$	.	1	

<b>Block 2:</b>	$\varphi_{3+}$	$\varphi_{11+}$	$\varphi_{25+}$	$\varphi_{36+}$
$105_1 = \chi_{3+}$	1	.	.	.
$630_1 = \chi_{11+}$	.	1	.	.
$2520_1 = \chi_{24+}$	1	.	1	.
$6720_1 = \chi_{41+}$	.	1	.	1
$8505_1 = \chi_{47+}$	.	.	1	1

$$\begin{aligned} \varphi_{3+} &= 105_1 \\ \varphi_{11+} &= 630_1 \\ \varphi_{25+} &= 2415_1 \\ \varphi_{36+} &= 6090_1 \end{aligned}$$