

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

	blocks	defect	matrix
$G :$	1 2	13 1	91×14 3×1

Block 1:	$\varphi_{1,0}$	$\varphi_{2,0}$	φ_{3+}	$\varphi_{6,0}$	$\varphi_{7,0}$	φ_{8+}	φ_{11+}	$\varphi_{14,0}$	φ_{15+}	$\varphi_{18,0}$	φ_{19+}
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	1	.	.	.	.	.	.	.	.	.	.
$1_3 = \chi_{1,2}$	1	.	.	.	.	.	.	.	.	.	.
$780_1 = \chi_{2+}$	6	3	1	3	.	.	.	.	.	.	.
$780_2 = \chi_{5+}$	6	3	1	3	.	.	.	.	.	.	.
$300_1 = \chi_{8,0}$	.	.	1	1	.	.	.	.	.	.	.
$300_2 = \chi_{8,1}$	.	.	1	1	.	.	.	.	.	.	.
$300_3 = \chi_{8,2}$	.	.	1	1	.	.	.	.	.	.	.
$2457_1 = \chi_{9+}$	3	.	3	3	.	1	.	.	.	.	.
$2275_1 = \chi_{12,0}$	.	4	.	.	1	.	.	1	.	.	.
$2275_2 = \chi_{12,1}$	.	4	.	.	1	.	.	1	.	.	.
$2275_3 = \chi_{12,2}$	.	4	.	.	1	.	.	1	.	.	.
$6825_1 = \chi_{13+}$	.	12	.	.	3	.	.	3	.	.	.
$2808_1 = \chi_{16,0}$	4	6	2	3	.	.	.	1	.	.	.
$2808_2 = \chi_{16,1}$	4	6	2	3	.	.	.	1	.	.	.
$2808_3 = \chi_{16,2}$	4	6	2	3	.	.	.	1	.	.	.
$16380_1 = \chi_{17+}$	.	.	3	.	3	1	1	.	1	.	.
$16380_2 = \chi_{20+}$	.	.	3	.	3	1	1	.	1	.	.
$9450_1 = \chi_{23,0}$	6	4	4	4	.	.	.	.	.	1	.
$9450_2 = \chi_{23,1}$	6	4	4	4	.	.	.	.	.	1	.
$9450_3 = \chi_{23,2}$	6	4	4	4	.	.	.	.	.	1	.
$17550_1 = \chi_{24,0}$	1	6	2	.	6	1	.	1	1	.	.
$17550_2 = \chi_{24,1}$	1	6	2	.	6	1	.	1	1	.	.
$17550_3 = \chi_{24,2}$	1	6	2	.	6	1	.	1	1	.	.
$18200_1 = \chi_{25,0}$	6	14	5	4	4	1	.	3	.	1	.
$18200_2 = \chi_{25,1}$	6	14	5	4	4	1	.	3	.	1	.
$18200_3 = \chi_{25,2}$	6	14	5	4	4	1	.	3	.	1	.
$18200_4 = \chi_{26,0}$	6	14	5	4	4	1	.	3	.	1	.
$18200_5 = \chi_{26,1}$	6	14	5	4	4	1	.	3	.	1	.
$18200_6 = \chi_{26,2}$	6	14	5	4	4	1	.	3	.	1	.
$54600_1 = \chi_{27+}$	18	42	15	12	12	3	.	9	.	3	.
$70200_1 = \chi_{30+}$	12	39	17	9	15	4	1	9	1	3	.
$70200_2 = \chi_{33+}$	12	39	17	9	15	4	1	9	1	3	.
$24192_1 = \chi_{36,0}$	3	4	4	1	6	1	.	.	1	1	.
$24192_2 = \chi_{36,1}$	3	4	4	1	6	1	.	.	1	1	.
$24192_3 = \chi_{36,2}$	3	4	4	1	6	1	.	.	1	1	.
$27300_1 = \chi_{37,0}$	.	10	1	.	3	2	1	4	.	.	.
$27300_2 = \chi_{37,1}$	.	10	1	.	3	2	1	4	.	.	.
$27300_3 = \chi_{37,2}$	.	10	1	.	3	2	1	4	.	.	.
$87360_1 = \chi_{38+}$	9	30	9	9	9	5	2	9	1	.	.

(Block 1:)	$\varphi_{22,0}$	φ_{23+}	$\varphi_{26,0}$
$1_1 = \chi_{1,0}$.	.	.
$1_2 = \chi_{1,1}$.	.	.
$1_3 = \chi_{1,2}$.	.	.
$780_1 = \chi_{2+}$.	.	.
$780_2 = \chi_{5+}$.	.	.
$300_1 = \chi_{8,0}$.	.	.
$300_2 = \chi_{8,1}$.	.	.
$300_3 = \chi_{8,2}$.	.	.
$2457_1 = \chi_{9+}$.	.	.
$2275_1 = \chi_{12,0}$.	.	.
$2275_2 = \chi_{12,1}$.	.	.
$2275_3 = \chi_{12,2}$.	.	.
$6825_1 = \chi_{13+}$.	.	.
$2808_1 = \chi_{16,0}$.	.	.
$2808_2 = \chi_{16,1}$.	.	.
$2808_3 = \chi_{16,2}$.	.	.
$16380_1 = \chi_{17+}$.	.	.
$16380_2 = \chi_{20+}$.	.	.
$9450_1 = \chi_{23,0}$.	.	.
$9450_2 = \chi_{23,1}$.	.	.
$9450_3 = \chi_{23,2}$.	.	.
$17550_1 = \chi_{24,0}$.	.	.
$17550_2 = \chi_{24,1}$.	.	.
$17550_3 = \chi_{24,2}$.	.	.
$18200_1 = \chi_{25,0}$.	.	.
$18200_2 = \chi_{25,1}$.	.	.
$18200_3 = \chi_{25,2}$.	.	.
$18200_4 = \chi_{26,0}$.	.	.
$18200_5 = \chi_{26,1}$.	.	.
$18200_6 = \chi_{26,2}$.	.	.
$54600_1 = \chi_{27+}$.	.	.
$70200_1 = \chi_{30+}$.	.	.
$70200_2 = \chi_{33+}$.	.	.
$24192_1 = \chi_{36,0}$.	.	.
$24192_2 = \chi_{36,1}$.	.	.
$24192_3 = \chi_{36,2}$.	.	.
$27300_1 = \chi_{37,0}$	1	.	.
$27300_2 = \chi_{37,1}$	1	.	.
$27300_3 = \chi_{37,2}$	1	.	.
$87360_1 = \chi_{38+}$	3	.	.

(Block 1:)	$\varphi_{1,0}$	$\varphi_{2,0}$	φ_{3+}	$\varphi_{6,0}$	$\varphi_{7,0}$	φ_{8+}	φ_{11+}	$\varphi_{14,0}$	φ_{15+}	$\varphi_{18,0}$	φ_{19+}
87360 ₂ = χ_{41+}	9	30	9	9	9	5	2	9	1	.	.
122850 ₁ = χ_{44+}	9	21	7	6	15	6	3	6	2	.	1
122850 ₂ = χ_{47+}	9	21	7	6	15	6	3	6	2	.	1
139776 ₁ = χ_{50+}	21	48	21	15	18	7	3	12	2	3	.
147420 ₁ = χ_{53+}	21	60	21	15	24	8	2	15	2	3	.
147420 ₂ = χ_{56+}	21	60	21	15	24	8	2	15	2	3	.
54600 ₂ = $\chi_{59,0}$	7	20	8	5	9	3	1	5	1	1	.
54600 ₃ = $\chi_{59,1}$	7	20	8	5	9	3	1	5	1	1	.
54600 ₄ = $\chi_{59,2}$	7	20	8	5	9	3	1	5	1	1	.
163800 ₁ = χ_{60+}	21	60	24	15	27	9	3	15	3	3	.
163800 ₂ = χ_{63+}	21	60	24	15	27	9	3	15	3	3	.
199017 ₁ = χ_{66+}	12	36	18	9	12	4	1	9	1	3	.
491400 ₁ = χ_{69+}	24	78	35	15	60	20	7	21	8	3	2
184275 ₁ = $\chi_{72,0}$	11	32	14	8	18	5	2	7	2	2	.
184275 ₂ = $\chi_{72,1}$	11	32	14	8	18	5	2	7	2	2	.
184275 ₃ = $\chi_{72,2}$	11	32	14	8	18	5	2	7	2	2	.
552825 ₁ = χ_{73+}	33	96	42	24	54	15	6	21	6	6	.
568620 ₁ = χ_{76+}	33	99	39	21	69	24	8	27	9	3	2
568620 ₂ = χ_{79+}	33	99	39	21	69	24	8	27	9	3	2
218700 ₁ = $\chi_{82,0}$	4	22	4	.	18	6	1	7	.	1	2
218700 ₂ = $\chi_{82,1}$	4	22	4	.	18	6	1	7	.	1	2
218700 ₃ = $\chi_{82,2}$	4	22	4	.	18	6	1	7	.	1	2
698880 ₁ = χ_{83+}	42	129	52	30	75	22	10	30	9	6	1
698880 ₂ = χ_{86+}	42	129	52	30	75	22	10	30	9	6	1
245700 ₁ = $\chi_{89,0}$	8	19	10	6	23	7	4	4	4	.	1
245700 ₂ = $\chi_{89,1}$	8	19	10	6	23	7	4	4	4	.	1
245700 ₃ = $\chi_{89,2}$	8	19	10	6	23	7	4	4	4	.	1
786240 ₁ = χ_{90+}	33	99	39	21	81	25	13	24	11	3	3
786240 ₂ = χ_{93+}	33	99	39	21	81	25	13	24	11	3	3
291200 ₁ = $\chi_{96,0}$	14	43	16	10	30	10	5	11	4	1	1
291200 ₂ = $\chi_{96,1}$	14	43	16	10	30	10	5	11	4	1	1
291200 ₃ = $\chi_{96,2}$	14	43	16	10	30	10	5	11	4	1	1
291200 ₄ = $\chi_{97,0}$	14	43	16	10	30	10	5	11	4	1	1
291200 ₅ = $\chi_{97,1}$	14	43	16	10	30	10	5	11	4	1	1
291200 ₆ = $\chi_{97,2}$	14	43	16	10	30	10	5	11	4	1	1
873600 ₁ = χ_{98+}	42	129	48	30	90	30	15	33	12	3	3
332800 ₁ = $\chi_{101,0}$	31	90	36	23	40	13	5	22	4	5	.
332800 ₂ = $\chi_{101,1}$	31	90	36	23	40	13	5	22	4	5	.
332800 ₃ = $\chi_{101,2}$	31	90	36	23	40	13	5	22	4	5	.
998400 ₁ = χ_{102+}	33	108	43	21	96	30	14	27	12	3	5

(Block 1:)	$\varphi_{22,0}$	φ_{23+}	$\varphi_{26,0}$
87360 ₂ = χ_{41+}	3	.	.
122850 ₁ = χ_{44+}	3	.	.
122850 ₂ = χ_{47+}	3	.	.
139776 ₁ = χ_{50+}	3	.	.
147420 ₁ = χ_{53+}	3	.	.
147420 ₂ = χ_{56+}	3	.	.
54600 ₂ = $\chi_{59,0}$	1	.	.
54600 ₃ = $\chi_{59,1}$	1	.	.
54600 ₄ = $\chi_{59,2}$	1	.	.
163800 ₁ = χ_{60+}	3	.	.
163800 ₂ = χ_{63+}	3	.	.
199017 ₁ = χ_{66+}	.	1	.
491400 ₁ = χ_{69+}	6	1	.
184275 ₁ = $\chi_{72,0}$	1	.	1
184275 ₂ = $\chi_{72,1}$	1	.	1
184275 ₃ = $\chi_{72,2}$	1	.	1
552825 ₁ = χ_{73+}	3	.	3
568620 ₁ = χ_{76+}	9	1	.
568620 ₂ = χ_{79+}	9	1	.
218700 ₁ = $\chi_{82,0}$	.	1	.
218700 ₂ = $\chi_{82,1}$	.	1	.
218700 ₃ = $\chi_{82,2}$	.	1	.
698880 ₁ = χ_{83+}	6	.	3
698880 ₂ = χ_{86+}	6	.	3
245700 ₁ = $\chi_{89,0}$	3	.	1
245700 ₂ = $\chi_{89,1}$	3	.	1
245700 ₃ = $\chi_{89,2}$	3	.	1
786240 ₁ = χ_{90+}	9	.	3
786240 ₂ = χ_{93+}	9	.	3
291200 ₁ = $\chi_{96,0}$	4	.	1
291200 ₂ = $\chi_{96,1}$	4	.	1
291200 ₃ = $\chi_{96,2}$	4	.	1
291200 ₄ = $\chi_{97,0}$	4	.	1
291200 ₅ = $\chi_{97,1}$	4	.	1
291200 ₆ = $\chi_{97,2}$	4	.	1
873600 ₁ = χ_{98+}	12	.	3
332800 ₁ = $\chi_{101,0}$	4	.	1
332800 ₂ = $\chi_{101,1}$	4	.	1
332800 ₃ = $\chi_{101,2}$	4	.	1
998400 ₁ = χ_{102+}	9	1	3

(Block 1:)	$\varphi_{1,0}$	$\varphi_{2,0}$	φ_{3+}	$\varphi_{6,0}$	$\varphi_{7,0}$	φ_{8+}	φ_{11+}	$\varphi_{14,0}$	φ_{15+}	$\varphi_{18,0}$	φ_{19+}
$1257984_1 = \chi_{105+}$	78	216	88	54	132	44	19	54	16	9	4
$1397760_1 = \chi_{108+}$	51	159	61	33	135	45	19	42	17	3	7
$491400_2 = \chi_{111,0}$	19	51	20	10	47	14	5	12	5	2	3
$491400_3 = \chi_{111,1}$	19	51	20	10	47	14	5	12	5	2	3
$491400_4 = \chi_{111,2}$	19	51	20	10	47	14	5	12	5	2	3
$716800_1 = \chi_{113,0}$	36	98	43	25	73	22	11	22	10	4	2
$716800_2 = \chi_{113,1}$	36	98	43	25	73	22	11	22	10	4	2
$716800_3 = \chi_{113,2}$	36	98	43	25	73	22	11	22	10	4	2
$716800_4 = \chi_{114,0}$	38	117	44	25	77	26	10	31	9	4	3
$716800_5 = \chi_{114,1}$	38	117	44	25	77	26	10	31	9	4	3
$716800_6 = \chi_{114,2}$	38	117	44	25	77	26	10	31	9	4	3

(Block 1:)	$\varphi_{22,0}$	φ_{23+}	$\varphi_{26,0}$
$1257984_1 = \chi_{105+}$	15	1	3
$1397760_1 = \chi_{108+}$	15	2	3
$491400_2 = \chi_{111,0}$	3	1	1
$491400_3 = \chi_{111,1}$	3	1	1
$491400_4 = \chi_{111,2}$	3	1	1
$716800_1 = \chi_{113,0}$	7	.	3
$716800_2 = \chi_{113,1}$	7	.	3
$716800_3 = \chi_{113,2}$	7	.	3
$716800_4 = \chi_{114,0}$	9	1	1
$716800_5 = \chi_{114,1}$	9	1	1
$716800_6 = \chi_{114,2}$	9	1	1

$$\begin{aligned}
\varphi_{1,0} &= 1_1 \\
\varphi_{2,0} &= 28_1 \\
\varphi_{3+} &= 105_1 \\
\varphi_{6,0} &= 195_1 \\
\varphi_{7,0} &= 322_1 \\
\varphi_{8+} &= 1554_1 \\
\varphi_{11+} &= 1701_1 \\
\varphi_{14,0} &= 1841_1 \\
\varphi_{15+} &= 11844_1 \\
\varphi_{18,0} &= 8132_1 \\
\varphi_{19+} &= 25029_1 \\
\varphi_{22,0} &= 13776_1 \\
\varphi_{23+} &= 129762_1 \\
\varphi_{26,0} &= 96755_1
\end{aligned}$$

Block 2:	$\varphi_{27,0}$
$531441_1 = \chi_{112,0}$	1
$531441_2 = \chi_{112,1}$	1
$531441_3 = \chi_{112,2}$	1

$$\varphi_{27,0} = 531441_1$$