

$O_8^+(2) \pmod{2}$

	blocks	defect	matrix
$2.G :$	1 2	13 1	81×15 2×1

Block 1:	φ_1	φ_2	φ_3	φ_4	φ_5	φ_6	φ_7	φ_8	φ_9	φ_{10}	φ_{11}	φ_{12}	φ_{13}	φ_{14}	φ_{15}
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$28_1 = \chi_2$	2	.	.	.	1	.	.	.	.	.	.	.	.	.	.
$35_1 = \chi_3$	1	1	.	.	1	.	.	.	.	.	.	.	.	.	.
$35_2 = \chi_4$	1	.	1	.	1	.	.	.	.	.	.	.	.	.	.
$35_3 = \chi_5$	1	.	.	1	1	.	.	.	.	.	.	.	.	.	.
$50_1 = \chi_6$	.	1	1	1	1	.	.	.	.	.	.	.	.	.	.
$84_1 = \chi_7$	2	1	.	.	1	1	.	.	.	.	.	.	.	.	.
$84_2 = \chi_8$	2	.	1	.	1	.	1	.	.	.	.	.	.	.	.
$84_3 = \chi_9$	2	.	.	1	1	.	.	1	.	.	.	.	.	.	.
$175_1 = \chi_{10}$	5	.	.	.	1	1	1	1	.	.	.	.	.	.	.
$210_1 = \chi_{11}$	.	1	1	1	1	.	.	.	1	.	.	.	.	.	.
$210_2 = \chi_{12}$	.	1	1	1	1	.	.	.	.	1	.	.	.	.	.
$210_3 = \chi_{13}$	.	1	1	1	1	.	.	.	.	.	1	.	.	.	.
$300_1 = \chi_{14}$	2	.	.	.	2	.	.	.	.	.	.	1	.	.	.
$350_1 = \chi_{15}$	2	1	1	1	3	.	.	.	.	.	.	1	.	.	.
$525_1 = \chi_{16}$	7	1	1	1	4	1	1	1	.	.	.	1	.	.	.
$567_1 = \chi_{17}$	3	2	1	1	3	1	.	.	1	.	.	1	.	.	.
$567_2 = \chi_{18}$	3	1	2	1	3	.	1	.	.	1	.	1	.	.	.
$567_3 = \chi_{19}$	3	1	1	2	3	.	.	1	.	.	1	1	.	.	.
$700_1 = \chi_{20}$	2	2	2	2	1	1	1	1	1	1	1	.	.	.	.
$700_2 = \chi_{21}$	6	1	2	2	4	1	1	1	1	.	.	1	.	.	.
$700_3 = \chi_{22}$	6	2	1	2	4	1	1	1	.	1	.	1	.	.	.
$700_4 = \chi_{23}$	6	2	2	1	4	1	1	1	.	.	1	1	.	.	.
$840_1 = \chi_{24}$	4	2	2	2	3	1	1	1	.	1	1	1	.	.	.
$840_2 = \chi_{25}$	4	2	2	2	3	1	1	1	1	.	1	1	.	.	.
$840_3 = \chi_{26}$	4	2	2	2	3	1	1	1	1	1	.	1	.	.	.
$972_1 = \chi_{27}$	2	2	2	2	2	1	1	1	1	1	1	1	.	.	.
$1050_1 = \chi_{28}$	4	3	3	3	4	1	1	1	1	1	1	1	.	.	.
$1050_2 = \chi_{29}$	4	3	3	3	4	1	1	1	1	1	1	1	.	.	.
$1050_3 = \chi_{30}$	4	3	3	3	4	1	1	1	1	1	1	1	.	.	.
$1344_1 = \chi_{31}$	2	2	2	2	4	.	.	.	1	.	.	1	1	.	.
$1344_2 = \chi_{32}$	2	2	2	2	4	.	.	.	.	1	.	1	.	1	.
$1344_3 = \chi_{33}$	2	2	2	2	4	.	.	.	.	.	1	1	.	.	1
$1400_1 = \chi_{34}$	6	4	4	4	7	1	1	1	1	1	1	2	.	.	.
$1575_1 = \chi_{35}$	7	3	2	2	5	2	1	1	1	.	.	1	1	.	.
$1575_2 = \chi_{36}$	7	2	3	2	5	1	2	1	.	1	.	1	.	1	.
$1575_3 = \chi_{37}$	7	2	2	3	5	1	1	2	.	.	1	1	.	.	1
$2100_1 = \chi_{38}$	4	5	4	4	5	2	1	1	2	1	1	1	1	.	.
$2100_2 = \chi_{39}$	4	4	5	4	5	1	2	1	1	2	1	1	.	1	.
$2100_3 = \chi_{40}$	4	4	4	5	5	1	1	2	1	1	2	1	.	.	1

(Block 1:)	φ_1	φ_2	φ_3	φ_4	φ_5	φ_6	φ_7	φ_8	φ_9	φ_{10}	φ_{11}	φ_{12}	φ_{13}	φ_{14}	φ_{15}
$2240_1 = \chi_{41}$	2	6	4	4	4	2	1	1	1	2	2	1	1	.	.
$2240_2 = \chi_{42}$	2	4	6	4	4	1	2	1	2	1	2	1	.	1	.
$2240_3 = \chi_{43}$	2	4	4	6	4	1	1	2	2	2	1	1	.	.	1
$2268_1 = \chi_{44}$	8	5	4	4	8	2	1	1	1	1	1	2	1	.	.
$2268_2 = \chi_{45}$	8	4	5	4	8	1	2	1	1	1	1	2	.	1	.
$2268_3 = \chi_{46}$	8	4	4	5	8	1	1	2	1	1	1	2	.	.	1
$2835_1 = \chi_{47}$	7	4	5	5	7	1	2	2	1	1	1	1	.	1	1
$2835_2 = \chi_{48}$	7	5	4	5	7	2	1	2	1	1	1	1	1	.	1
$2835_3 = \chi_{49}$	7	5	5	4	7	2	2	1	1	1	1	1	1	1	.
$3200_1 = \chi_{50}$	10	4	4	4	8	2	2	2	.	.	.	1	1	1	1
$4200_1 = \chi_{52}$	14	6	6	6	11	3	3	3	1	1	1	2	1	1	1
$6075_1 = \chi_{53}$	17	11	11	11	17	4	4	4	3	3	3	4	1	1	1
$8_1 = \chi_{54}$	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.
$56_1 = \chi_{55}$	.	1	.	.	.	1	.	.	.	.	.	.	.	.	.
$112_1 = \chi_{56}$	4	1	.	.	2	1	.	.	.	.	.	.	.	.	.
$160_1 = \chi_{57}$	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.
$224_1 = \chi_{58}$	.	.	.	2	.	.	.	1	1	.	.	.	.	.	.
$224_2 = \chi_{59}$	.	.	2	.	.	.	1	.	1	.	.	.	.	.	.
$400_1 = \chi_{60}$	4	1	2	2	2	1	1	1	1	.	.	.	.	.	.
$448_1 = \chi_{61}$	6	.	.	.	2	1	1	1	.	.	.	1	.	.	.
$560_1 = \chi_{62}$	2	2	2	2	4	.	.	.	1	.	.	1	.	.	.
$672_1 = \chi_{63}$	.	2	2	2	.	1	1	1	1	.	2	.	.	.	.
$672_2 = \chi_{64}$	.	2	2	2	.	1	1	1	1	2	.	.	.	.	.
$840_4 = \chi_{65}$	.	1	.	.	.	1	.	.	.	.	.	.	1	.	.
$1008_1 = \chi_{66}$	8	2	2	2	6	1	1	1	1	.	.	2	.	.	.
$1008_2 = \chi_{67}$	4	1	2	.	2	1	2	.	.	.	.	.	.	1	.
$1008_3 = \chi_{68}$	4	1	.	2	2	1	.	2	.	.	.	.	.	.	1
$1296_1 = \chi_{69}$	6	3	2	2	6	1	.	.	.	.	.	1	1	.	.
$1400_2 = \chi_{70}$	2	5	4	4	4	1	1	1	1	2	2	1	.	.	.
$1400_3 = \chi_{71}$	2	3	2	2	4	1	.	.	1	.	.	1	1	.	.
$2400_1 = \chi_{72}$	10	6	6	6	10	2	2	2	2	2	2	3	.	.	.
$2800_1 = \chi_{73}$	6	7	6	6	6	3	2	2	3	2	2	1	1	.	.
$2800_2 = \chi_{74}$	6	5	4	4	6	2	2	1	1	2	.	1	1	1	.
$2800_3 = \chi_{75}$	6	5	4	4	6	2	1	2	1	.	2	1	1	.	1
$3240_1 = \chi_{76}$	10	7	6	6	10	3	2	2	2	2	2	3	1	.	.
$3360_1 = \chi_{77}$	10	4	4	4	8	2	2	2	1	.	.	1	1	1	1
$3584_1 = \chi_{78}$	4	6	8	6	8	1	2	1	2	2	2	2	.	2	.
$3584_2 = \chi_{79}$	4	6	6	8	8	1	1	2	2	2	2	2	.	.	2
$4200_2 = \chi_{81}$	18	7	8	8	14	3	4	4	1	2	2	3	.	1	1
$4536_1 = \chi_{82}$	12	7	8	8	12	2	3	3	1	2	2	2	1	1	1

(Block 1:)	φ_1	φ_2	φ_3	φ_4	φ_5	φ_6	φ_7	φ_8	φ_9	φ_{10}	φ_{11}	φ_{12}	φ_{13}	φ_{14}	φ_{15}
$5600_1 = \chi_{83}$	20	10	10	10	18	4	4	4	2	2	2	4	1	1	1

$$\begin{array}{ll}
\varphi_1 = 1_1 & \varphi_9 = 160_1 \\
\varphi_2 = 8_1 & \varphi_{10} = 160_2 \\
\varphi_3 = 8_2 & \varphi_{11} = 160_3 \\
\varphi_4 = 8_3 & \varphi_{12} = 246_1 \\
\varphi_5 = 26_1 & \varphi_{13} = 784_1 \\
\varphi_6 = 48_1 & \varphi_{14} = 784_2 \\
\varphi_7 = 48_2 & \varphi_{15} = 784_3 \\
\varphi_8 = 48_3 &
\end{array}$$

Block 2:	φ_{16}
$4096_1 = \chi_{51}$	1
$4096_2 = \chi_{80}$	1

$$\varphi_{16} = 4096_1$$