

$Co_2 \pmod{2}$

	blocks	defect	matrix
$G :$	1 2	18 0	59×12 $1835008_1 = \chi_{54}, \varphi_{13}$

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}
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	.	.	.	.
$23_1 = \chi_2$	1	1	.	.	.	.	.	.	.	.	.	.
$253_1 = \chi_3$	1	1	1	.	.	.	.	.	.	.	.	.
$275_1 = \chi_4$	1	2	1	.	.	.	.	.	.	.	.	.
$1771_1 = \chi_5$	1	2	1	1	1	.	.	.	.	.	.	.
$2024_1 = \chi_6$	2	3	2	1	1	.	.	.	.	.	.	.
$2277_1 = \chi_7$	3	4	3	1	1	.	.	.	.	.	.	.
$4025_1 = \chi_8$	1	2	2	.	.	1	.	.	.	.	.	.
$7084_1 = \chi_9$	2	2	1	1	1	.	1	.	.	.	.	.
$9625_1 = \chi_{10}$	1	2	1	.	1	.	.	.	1	.	.	.
$9625_2 = \chi_{11}$	1	2	1	1	.	.	.	1	.	.	.	.
$10395_1 = \chi_{12}$	1	3	1	1	1	.	.	.	1	.	.	.
$10395_2 = \chi_{13}$	1	3	1	1	1	.	.	1	.	.	.	.
$12650_1 = \chi_{14}$	4	6	3	2	2	1	1	.	.	.	.	.
$23000_1 = \chi_{15}$	2	4	3	1	1	1	.	1	1	.	.	.
$31625_1 = \chi_{16}$	5	8	4	3	3	1	1	1	1	.	.	.
$31625_2 = \chi_{17}$	5	8	4	3	3	1	1	1	1	.	.	.
$31878_1 = \chi_{18}$	6	9	5	3	3	1	1	1	1	.	.	.
$37422_1 = \chi_{19}$	8	12	7	4	4	2	1	1	1	.	.	.
$44275_1 = \chi_{20}$	9	14	7	5	5	2	2	1	1	.	.	.
$63250_1 = \chi_{21}$	4	8	4	3	3	1	.	1	1	1	.	.
$91125_1 = \chi_{22}$	9	16	7	6	6	1	1	2	2	1	.	.
$91125_2 = \chi_{23}$	9	16	7	6	6	1	1	2	2	1	.	.
$113850_1 = \chi_{24}$	10	11	5	4	4	.	1	1	1	.	1	.
$129536_1 = \chi_{25}$	12	16	6	6	6	2	2	1	1	.	1	.
$177100_1 = \chi_{26}$	14	19	9	7	7	1	1	2	2	1	1	.
$184437_1 = \chi_{27}$	17	22	11	8	8	1	2	2	2	1	1	.
$212520_1 = \chi_{28}$	26	37	18	13	13	4	4	4	4	.	1	.
$221375_1 = \chi_{29}$	17	25	12	9	9	2	1	2	2	2	1	.
$226688_1 = \chi_{30}$	24	33	16	12	12	3	4	3	3	1	1	.
$239085_1 = \chi_{31}$	21	30	15	11	11	2	2	2	3	2	1	.
$239085_2 = \chi_{32}$	21	30	15	11	11	2	2	3	2	2	1	.
$245916_1 = \chi_{33}$	26	39	19	14	14	4	3	4	4	1	1	.
$253000_1 = \chi_{34}$	22	33	16	12	12	3	2	3	3	2	1	.
$284625_1 = \chi_{35}$	27	41	20	15	15	4	3	4	4	2	1	.
$312984_1 = \chi_{36}$	34	50	25	18	18	4	4	5	5	2	1	.
$368874_1 = \chi_{37}$	34	44	22	16	16	2	4	4	4	2	2	.
$398475_1 = \chi_{38}$	37	52	25	19	19	4	4	5	5	2	2	.
$398475_2 = \chi_{39}$	37	52	25	19	19	4	4	5	5	2	2	.
$430353_1 = \chi_{40}$	43	61	30	22	22	5	5	6	6	2	2	.

(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}
$442750_1 = \chi_{41}$	40	58	28	21	21	5	4	5	5	3	2	.
$462000_1 = \chi_{42}$	48	70	34	25	25	6	6	7	7	2	2	.
$467775_1 = \chi_{43}$	31	44	22	16	16	2	2	4	4	3	1	1
$558900_1 = \chi_{44}$	40	60	29	22	22	3	3	6	6	4	1	1
$637560_1 = \chi_{45}$	48	69	33	25	25	4	4	7	7	3	2	1
$664125_1 = \chi_{46}$	53	75	37	27	27	4	5	8	8	3	2	1
$664125_2 = \chi_{47}$	53	75	37	27	27	4	5	8	8	3	2	1
$664125_3 = \chi_{48}$	53	75	37	27	27	4	5	8	8	3	2	1
$853875_1 = \chi_{49}$	71	100	49	36	36	6	7	10	10	4	3	1
$1288000_1 = \chi_{50}$	114	162	80	58	58	12	12	16	16	6	5	1
$1291059_1 = \chi_{51}$	109	154	75	56	56	10	11	15	15	7	5	1
$1771000_1 = \chi_{52}$	146	208	102	75	75	13	14	21	21	9	6	2
$1771000_2 = \chi_{53}$	156	224	109	81	81	17	16	21	21	10	7	1
$1943040_1 = \chi_{55}$	156	223	108	81	81	14	14	21	21	11	7	2
$1992375_1 = \chi_{56}$	169	241	118	87	87	16	17	24	24	10	7	2
$2004750_1 = \chi_{57}$	166	237	116	86	86	16	16	23	23	11	7	2
$2040192_1 = \chi_{58}$	168	240	118	87	87	15	16	23	23	12	7	2
$2072576_1 = \chi_{59}$	168	239	114	87	87	16	16	22	22	11	8	2
$2095875_1 = \chi_{60}$	175	253	123	92	92	17	17	25	25	12	7	2

$$\begin{array}{ll}
\varphi_1 = 1_1 & \varphi_7 = 5312_1 \\
\varphi_2 = 22_1 & \varphi_8 = 8602_1 \\
\varphi_3 = 230_1 & \varphi_9 = 8602_2 \\
\varphi_4 = 748_1 & \varphi_{10} = 36938_1 \\
\varphi_5 = 748_2 & \varphi_{11} = 83948_1 \\
\varphi_6 = 3520_1 & \varphi_{12} = 156538_1
\end{array}$$