

$Co_2 \pmod{3}$

	blocks	defect	matrix
$G :$	1	6	47×23
	2	1	3×2
	3	0	$91125_1 = \chi_{22}, \varphi_{18}$
	$4 = \overline{3}$	0	$91125_2 = \chi_{23}, \varphi_{19}$
	5	0	$184437_1 = \chi_{27}, \varphi_{22}$
	6	1	3×2
	7	0	$368874_1 = \chi_{37}, \varphi_{29}$
	8	0	$1291059_1 = \chi_{51}, \varphi_{32}$
	9	0	$2004750_1 = \chi_{57}, \varphi_{33}$
	10	0	$2095875_1 = \chi_{60}, \varphi_{34}$

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}
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	.	.	.	.	.	.
$23_1 = \chi_2$	.	1	.	.	.	.	.	.	.	.	.	.	.	.
$253_1 = \chi_3$	.	.	1	.	.	.	.	.	.	.	.	.	.	.
$275_1 = \chi_4$	.	.	.	1	.	.	.	.	.	.	.	.	.	.
$1771_1 = \chi_5$	.	.	.	.	.	1	.	.	.	.	.	.	.	.
$2024_1 = \chi_6$	.	.	.	1	1	.	.	.	.	.	.	.	.	.
$2277_1 = \chi_7$	.	1	.	.	.	.	1	.	.	.	.	.	.	.
$4025_1 = \chi_8$	.	.	.	.	.	1	1	.	.	.	.	.	.	.
$7084_1 = \chi_9$	.	.	.	.	.	.	.	1	.	.	.	.	.	.
$9625_1 = \chi_{10}$	.	.	1	.	.	.	.	.	1	.	.	.	.	.
$9625_2 = \chi_{11}$	.	.	1	.	.	.	.	.	.	1	.	.	.	.
$10395_1 = \chi_{12}$	.	.	.	.	.	.	.	.	.	.	.	1	.	.
$10395_2 = \chi_{13}$	.	.	.	.	.	.	.	.	.	.	.	1	.	.
$12650_1 = \chi_{14}$	1	.	1	1	1	.	.	.	.	.	1	.	.	.
$23000_1 = \chi_{15}$	.	.	.	1	2	1	.	1	.	.	1	.	.	.
$31625_1 = \chi_{16}$	.	.	1	.	.	.	.	.	.	.	.	.	.	.
$31625_2 = \chi_{17}$	1	.	.	1	2	1	.	.	.	.	1	.	1	.
$31878_1 = \chi_{18}$	.	1	.	.	.	.	.	.	.	.	1	.	.	1
$44275_1 = \chi_{20}$	.	1	.	.	.	1	1	.	1	1	.	.	.	1
$63250_1 = \chi_{21}$	.	.	.	.	.	.	.	.	.	.	.	1	.	1
$113850_1 = \chi_{24}$	1	.	.	.	.	.	.	.	.	.	1	.	1	.
$129536_1 = \chi_{25}$	.	.	.	.	.	.	.	.	.	.	.	1	.	.
$177100_1 = \chi_{26}$	.	1	1	.	.	.	.	1	1	1	1	.	.	1
$212520_1 = \chi_{28}$	.	1	.	.	.	2	1	.	1	1	.	.	.	1
$221375_1 = \chi_{29}$	.	1	.	.	1	2	1	.	.	.	1	1	1	.
$226688_1 = \chi_{30}$	.	1	1	1	2	1	.	1	.	.	2	.	1	.
$239085_1 = \chi_{31}$	.	.	1	.	.	.	.	.	1	1	.	.	.	.
$239085_2 = \chi_{32}$	.	.	1	.	.	.	.	.	1	1	.	.	.	.
$253000_1 = \chi_{34}$	.	1	.	.	1	.	.	2	.	.	1	.	.	.
$284625_1 = \chi_{35}$	.	1	2	.	.	2	1	.	2	2	.	.	.	2
$398475_1 = \chi_{38}$	.	1	1	.	.	.	.	1	1	1	1	.	.	1
$398475_2 = \chi_{39}$	.	1	.	2	3	3	.	1	.	.	2	.	1	.
$442750_1 = \chi_{41}$	1	.	1	1	1	1	.	.	1	1	1	.	.	1
$462000_1 = \chi_{42}$	.	.	2	.	.	.	.	.	.	.	1	2	.	.
$637560_1 = \chi_{45}$	.	2	.	1	3	3	1	1	.	.	2	1	1	.
$664125_1 = \chi_{46}$	1	.	2	.	.	.	.	.	1	1	1	2	.	1
$664125_2 = \chi_{47}$	.	1	1	1	2	2	.	2	1	1	1	.	.	.
$664125_3 = \chi_{48}$	.	1	2	.	.	2	1	.	1	1	1	1	.	1
$853875_1 = \chi_{49}$	.	1	.	.	.	2	1	.	.	.	2	1	1	.
$1288000_1 = \chi_{50}$	.	.	.	.	.	1	.	2	1	1	1	1	.	.

(Block 1:)	φ_{15}	φ_{17}	φ_{20}	φ_{21}	φ_{23}	φ_{24}	φ_{25}	φ_{28}	φ_{31}
$1_1 = \chi_1$	.	.	.	.	.	.	.	.	.
$23_1 = \chi_2$	.	.	.	.	.	.	.	.	.
$253_1 = \chi_3$	.	.	.	.	.	.	.	.	.
$275_1 = \chi_4$	.	.	.	.	.	.	.	.	.
$1771_1 = \chi_5$	.	.	.	.	.	.	.	.	.
$2024_1 = \chi_6$	.	.	.	.	.	.	.	.	.
$2277_1 = \chi_7$	.	.	.	.	.	.	.	.	.
$4025_1 = \chi_8$	.	.	.	.	.	.	.	.	.
$7084_1 = \chi_9$	.	.	.	.	.	.	.	.	.
$9625_1 = \chi_{10}$	.	.	.	.	.	.	.	.	.
$9625_2 = \chi_{11}$	.	.	.	.	.	.	.	.	.
$10395_1 = \chi_{12}$	.	.	.	.	.	.	.	.	.
$10395_2 = \chi_{13}$	.	.	.	.	.	.	.	.	.
$12650_1 = \chi_{14}$	.	.	.	.	.	.	.	.	.
$23000_1 = \chi_{15}$	.	.	.	.	.	.	.	.	.
$31625_1 = \chi_{16}$	1	.	.	.	.	.	.	.	.
$31625_2 = \chi_{17}$	.	.	.	.	.	.	.	.	.
$31878_1 = \chi_{18}$	.	.	.	.	.	.	.	.	.
$44275_1 = \chi_{20}$	.	.	.	.	.	.	.	.	.
$63250_1 = \chi_{21}$	1	.	.	.	.	.	.	.	.
$113850_1 = \chi_{24}$	.	1	.	.	.	.	.	.	.
$129536_1 = \chi_{25}$	1	1	.	.	.	.	.	.	.
$177100_1 = \chi_{26}$	1	1	.	.	.	.	.	.	.
$212520_1 = \chi_{28}$	.	.	1	.	.	.	.	.	.
$221375_1 = \chi_{29}$	.	.	.	1	.	.	.	.	.
$226688_1 = \chi_{30}$	.	.	.	1	.	.	.	.	.
$239085_1 = \chi_{31}$	.	.	.	.	1	.	.	.	.
$239085_2 = \chi_{32}$	.	.	.	.	1	.	.	.	.
$253000_1 = \chi_{34}$	.	.	.	.	.	.	1	.	.
$284625_1 = \chi_{35}$	1	.	1	.	.	.	.	.	.
$398475_1 = \chi_{38}$	.	.	.	.	.	.	.	1	.
$398475_2 = \chi_{39}$	.	.	1	1	.	.	.	.	.
$442750_1 = \chi_{41}$	.	.	1	.	.	1	.	.	.
$462000_1 = \chi_{42}$	1	.	.	1	.	1	.	.	.
$637560_1 = \chi_{45}$	.	.	1	1	.	.	1	.	.
$664125_1 = \chi_{46}$	2	1	.	.	1	1	.	.	.
$664125_2 = \chi_{47}$	.	.	1	.	1	.	1	.	.
$664125_3 = \chi_{48}$	1	.	1	1	.	1	.	.	.
$853875_1 = \chi_{49}$	.	.	.	2	.	.	.	.	1
$1288000_1 = \chi_{50}$	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}
$1771000_1 = \chi_{52}$	1	.	2	1	.	2	.	.	3	3	1	1	.	2
$1771000_2 = \chi_{53}$	.	.	1	.	.	2	.	1	1	1	1	2	.	.
$1835008_1 = \chi_{54}$	.	1	2	1	1	3	1	2	2	2	2	2	.	1
$1943040_1 = \chi_{55}$	1	2	2	1	2	4	1	2	1	1	4	3	1	1
$1992375_1 = \chi_{56}$	.	1	.	.	1	2	.	3	1	1	2	2	.	.
$2040192_1 = \chi_{58}$	.	2	2	1	1	4	1	3	3	3	2	1	.	2
$2072576_1 = \chi_{59}$	1	1	1	.	.	2	.	1	2	2	2	2	.	1

(Block 1:)	φ_{15}	φ_{17}	φ_{20}	φ_{21}	φ_{23}	φ_{24}	φ_{25}	φ_{28}	φ_{31}
$1771000_1 = \chi_{52}$	1	.	1	.	2	1	.	1	1
$1771000_2 = \chi_{53}$	1	.	1	1	2	1	1	.	1
$1835008_1 = \chi_{54}$	1	.	1	1	2	1	1	.	1
$1943040_1 = \chi_{55}$	2	1	1	2	1	1	1	.	1
$1992375_1 = \chi_{56}$	.	.	1	1	2	1	2	.	1
$2040192_1 = \chi_{58}$	1	.	2	1	2	1	1	.	1
$2072576_1 = \chi_{59}$	1	1	1	.	2	1	1	1	1

$$\begin{array}{ll}
\varphi_1 = 1_1 & \varphi_{13} = 15708_1 \\
\varphi_2 = 23_1 & \varphi_{14} = 21483_1 \\
\varphi_3 = 253_1 & \varphi_{15} = 31372_1 \\
\varphi_4 = 275_1 & \varphi_{17} = 87769_1 \\
\varphi_5 = 1749_1 & \varphi_{20} = 166474_1 \\
\varphi_6 = 1771_1 & \varphi_{21} = 177332_1 \\
\varphi_7 = 2254_1 & \varphi_{23} = 220088_1 \\
\varphi_8 = 7084_1 & \varphi_{24} = 221628_1 \\
\varphi_9 = 9372_1 & \varphi_{25} = 226688_1 \\
\varphi_{10} = 9372_2 & \varphi_{28} = 340516_1 \\
\varphi_{11} = 10372_1 & \varphi_{31} = 446545_1 \\
\varphi_{12} = 10395_1 &
\end{array}$$

Block 2:	φ_{16}	φ_{30}
$37422_1 = \chi_{19}$	1	.
$430353_1 = \chi_{40}$	.	1
$467775_1 = \chi_{43}$	1	1

$$\begin{array}{ll}
\varphi_{16} = 37422_1 \\
\varphi_{30} = 430353_1
\end{array}$$

Block 6:	φ_{26}	φ_{27}
$245916_1 = \chi_{33}$	1	.
$312984_1 = \chi_{36}$	.	1
$558900_1 = \chi_{44}$	1	1

$$\begin{aligned} \varphi_{26} &= 245916_1 \\ \varphi_{27} &= 312984_1 \end{aligned}$$