

$Co_2 \pmod{5}$

	blocks	defect	matrix
$G :$	1	3	27×16
	2	1	5×4
	3	1	5×4
	4	0	$9625_1 = \chi_{10}, \varphi_{10}$
	$5 = \overline{4}$	0	$9625_2 = \chi_{11}, \varphi_{11}$
	6	0	$23000_1 = \chi_{15}, \varphi_{14}$
	7	0	$31625_1 = \chi_{16}, \varphi_{16}$
	8	0	$31625_2 = \chi_{17}, \varphi_{17}$
	9	0	$63250_1 = \chi_{21}, \varphi_{20}$
	10	0	$91125_1 = \chi_{22}, \varphi_{21}$
	$11 = \overline{10}$	0	$91125_2 = \chi_{23}, \varphi_{22}$
	12	0	$221375_1 = \chi_{29}, \varphi_{28}$
	13	0	$253000_1 = \chi_{34}, \varphi_{31}$
	14	0	$284625_1 = \chi_{35}, \varphi_{32}$
	15	0	$442750_1 = \chi_{41}, \varphi_{35}$
	16	0	$462000_1 = \chi_{42}, \varphi_{36}$
	17	0	$664125_1 = \chi_{46}, \varphi_{37}$
	18	0	$664125_2 = \chi_{47}, \varphi_{38}$
	19	0	$664125_3 = \chi_{48}, \varphi_{39}$
	20	0	$853875_1 = \chi_{49}, \varphi_{40}$
	21	0	$1288000_1 = \chi_{50}, \varphi_{42}$
	22	0	$1771000_1 = \chi_{52}, \varphi_{43}$
	23	0	$1771000_2 = \chi_{53}, \varphi_{44}$
	24	0	$1992375_1 = \chi_{56}, \varphi_{45}$
	25	0	$2004750_1 = \chi_{57}, \varphi_{46}$
	26	0	$2095875_1 = \chi_{60}, \varphi_{47}$

Block 1:	φ_1	φ_2	φ_3	φ_5	φ_6	φ_7	φ_9	φ_{12}	φ_{15}	φ_{18}	φ_{24}	φ_{26}	φ_{27}	φ_{29}
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	.	.	.	.	.	.
$23_1 = \chi_2$	.	1	.	.	.	.	.	.	.	.	.	.	.	.
$253_1 = \chi_3$	.	.	1	.	.	.	.	.	.	.	.	.	.	.
$1771_1 = \chi_5$	.	.	.	1	.	.	.	.	.	.	.	.	.	.
$2024_1 = \chi_6$	1	.	.	.	1	.	.	.	.	.	.	.	.	.
$2277_1 = \chi_7$	.	1	.	.	.	1	.	.	.	.	.	.	.	.
$7084_1 = \chi_9$	.	.	.	1	.	.	1	.	.	.	.	.	.	.
$10395_1 = \chi_{12}$	.	.	.	.	.	.	.	1	.	.	.	.	.	.
$10395_2 = \chi_{13}$	.	.	.	.	.	.	.	1	.	.	.	.	.	.
$31878_1 = \chi_{18}$	.	.	.	.	.	1	.	.	1	.	.	.	.	.
$37422_1 = \chi_{19}$	.	.	1	.	.	.	.	.	.	1	.	.	.	.
$129536_1 = \chi_{25}$	.	.	1	1	.	.	1	.	.	.	1	.	.	.
$184437_1 = \chi_{27}$	1	.	.	.	1	.	1	.	.	.	.	1	.	.
$212520_1 = \chi_{28}$	.	.	.	.	.	2	.	.	1	.	.	.	1	.
$226688_1 = \chi_{30}$	1	.	.	.	1	.	.	1	.	1	.	1	.	.
$239085_1 = \chi_{31}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$239085_2 = \chi_{32}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$245916_1 = \chi_{33}$	.	.	.	.	1	.	.	.	1	1	.	1	.	.
$312984_1 = \chi_{36}$	.	.	.	1	.	.	2	.	.	.	1	.	1	.
$368874_1 = \chi_{37}$	.	1	1	.	.	.	.	1	.	.	1	.	.	1
$430353_1 = \chi_{40}$	.	.	.	.	.	1	2	.	.	.	.	.	1	.
$637560_1 = \chi_{45}$	1	.	.	.	1	.	1	1	1	.	.	2	.	1
$1291059_1 = \chi_{51}$	.	.	.	.	.	1	.	.	1	1	.	1	.	.
$1835008_1 = \chi_{54}$	.	.	.	.	.	.	1	1	.	.	1	1	.	1
$1943040_1 = \chi_{55}$	1	.	1	.	.	.	1	2	.	1	2	2	.	1
$2040192_1 = \chi_{58}$	.	.	.	.	.	1	2	.	1	.	1	1	1	1
$2072576_1 = \chi_{59}$	.	1	.	.	.	1	2	.	.	.	1	.	1	1

(Block 1:)	φ_{30}	φ_{41}		
$1_1 = \chi_1$	.	.		
$23_1 = \chi_2$	.	.		
$253_1 = \chi_3$	.	.		
$1771_1 = \chi_5$	.	.		
$2024_1 = \chi_6$	.	.		
$2277_1 = \chi_7$	.	.	$\varphi_1 =$	1_1
$7084_1 = \chi_9$	.	.	$\varphi_2 =$	23_1
$10395_1 = \chi_{12}$	.	.	$\varphi_3 =$	253_1
$10395_2 = \chi_{13}$	.	.	$\varphi_5 =$	1771_1
$31878_1 = \chi_{18}$	.	.	$\varphi_6 =$	2023_1
$37422_1 = \chi_{19}$	.	.	$\varphi_7 =$	2254_1
$129536_1 = \chi_{25}$	.	.	$\varphi_9 =$	5313_1
$184437_1 = \chi_{27}$	.	.	$\varphi_{12} =$	10395_1
$212520_1 = \chi_{28}$	.	.	$\varphi_{15} =$	29624_1
$226688_1 = \chi_{30}$	.	.	$\varphi_{18} =$	37169_1
$239085_1 = \chi_{31}$	1	.	$\varphi_{24} =$	122199_1
$239085_2 = \chi_{32}$	1	.	$\varphi_{26} =$	177100_1
$245916_1 = \chi_{33}$	.	.	$\varphi_{27} =$	178388_1
$312984_1 = \chi_{36}$	.	.	$\varphi_{29} =$	236004_1
$368874_1 = \chi_{37}$	.	.	$\varphi_{30} =$	239085_1
$430353_1 = \chi_{40}$	1	.	$\varphi_{41} =$	1044912_1
$637560_1 = \chi_{45}$	.	.		
$1291059_1 = \chi_{51}$	.	1		
$1835008_1 = \chi_{54}$	1	1		
$1943040_1 = \chi_{55}$	.	1		
$2040192_1 = \chi_{58}$	1	1		
$2072576_1 = \chi_{59}$	2	1		

Block 2:	φ_4	φ_{19}	φ_{23}	φ_{33}		
$275_1 = \chi_4$	1	.	.	.	$\varphi_4 =$	275_1
$44275_1 = \chi_{20}$	.	1	.	.	$\varphi_{19} =$	44275_1
$113850_1 = \chi_{24}$	1	.	1	.	$\varphi_{23} =$	113575_1
$398475_1 = \chi_{38}$	.	1	.	1	$\varphi_{33} =$	354200_1
$467775_1 = \chi_{43}$	.	.	1	1		

Block 3:	φ_8	φ_{13}	φ_{25}	φ_{34}
$4025_1 = \chi_8$	1	.	.	.
$12650_1 = \chi_{14}$	.	1	.	.
$177100_1 = \chi_{26}$	1	.	1	.
$398475_2 = \chi_{39}$	.	1	.	1
$558900_1 = \chi_{44}$	.	.	1	1

$$\begin{aligned}
 \varphi_8 &= 4025_1 \\
 \varphi_{13} &= 12650_1 \\
 \varphi_{25} &= 173075_1 \\
 \varphi_{34} &= 385825_1
 \end{aligned}$$