

$$O_{10}^-(2) \pmod{3}$$

	blocks	defect	matrix
$G :$	1	6	81×18
	2	1	3×2
	3	2	9×5
	4	2	9×2
	5	1	3×2
	6	0	$681615_1 = \chi_{96}, \varphi_{29}$
	$7 = \overline{6}$	0	$681615_2 = \chi_{97}, \varphi_{30}$
	8	1	3×1
	$9 = \overline{8}$	1	3×1
	10	0	$1403325_1 = \chi_{114}, \varphi_{34}$
	11	0	$1403325_2 = \chi_{115}, \varphi_{35}$

Block 1:	φ_1	φ_2	φ_3	φ_4	φ_5	φ_6	φ_7	φ_8	φ_9	φ_{10}	φ_{13}	φ_{14}	φ_{15}	φ_{16}
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	.	.	.	.	.	.
$154_1 = \chi_2$	1	1	.	.	.	.	.	.	.	.	.	.	.	.
$187_1 = \chi_3$	1	.	1	.	.	.	.	.	.	.	.	.	.	.
$340_1 = \chi_4$	1	1	1	.	.	.	.	.	.	.	.	.	.	.
$595_1 = \chi_5$	.	.	.	1	.	.	.	.	.	.	.	.	.	.
$595_2 = \chi_6$	.	.	.	1	.	.	.	.	.	.	.	.	.	.
$748_1 = \chi_7$	.	1	.	1	.	.	.	.	.	.	.	.	.	.
$2244_1 = \chi_8$	.	.	1	.	1	.	.	.	.	.	.	.	.	.
$5236_1 = \chi_9$	1	1	.	1	.	1	.	.	.	.	.	.	.	.
$5236_2 = \chi_{10}$	.	.	.	.	.	.	1	.	.	.	.	.	.	.
$5950_1 = \chi_{11}$	.	.	.	.	.	.	.	1	.	.	.	.	.	.
$5950_2 = \chi_{12}$	.	.	.	.	.	.	.	1	.	.	.	.	.	.
$6545_1 = \chi_{13}$	.	.	.	1	.	.	.	1	.	.	.	.	.	.
$6545_2 = \chi_{14}$	.	.	.	.	1	1	.	.	.	.	.	.	.	.
$7700_1 = \chi_{15}$	1	1	1	1	.	.	.	.	1	.	.	.	.	.
$9350_1 = \chi_{16}$	2	1	2	.	1	.	.	.	1	.	.	.	.	.
$13090_1 = \chi_{18}$	.	.	.	.	.	1	.	.	.	1	.	.	.	.
$14960_1 = \chi_{19}$	1	.	1	.	1	.	.	1	1	.	.	.	.	.
$15708_1 = \chi_{21}$	1	1	1	.	.	.	.	.	1	1	.	.	.	.
$15708_2 = \chi_{22}$	1	1	1	1	1	.	.	1	1	.	.	.	.	.
$15708_3 = \chi_{23}$	1	1	1	1	1	.	.	1	1	.	.	.	.	.
$22848_1 = \chi_{24}$	1	1	1	1	1	1	.	.	1	1	.	.	.	.
$26180_1 = \chi_{25}$	.	.	.	.	.	.	.	.	.	.	1	.	.	.
$26180_2 = \chi_{26}$	.	.	.	.	.	.	.	.	.	.	1	.	.	.
$32725_1 = \chi_{27}$	.	.	.	.	.	1	.	.	.	.	.	1	.	.
$35904_1 = \chi_{28}$	1	.	.	.	.	1	1	.	.	.	1	.	.	.
$39270_1 = \chi_{29}$	.	.	.	1	1	1	.	1	.	.	1	.	.	.
$39270_2 = \chi_{30}$	.	.	.	1	.	.	1	.	.	.	.	.	1	.
$41888_1 = \chi_{31}$	1	1	1	1	.	.	.	1	1	.	.	1	.	.
$56100_1 = \chi_{32}$	.	1	.	2	.	.	.	1	1	1	.	.	1	.
$59840_1 = \chi_{33}$	1	1	1	1	.	1	.	.	.	.	1	1	.	.
$65450_1 = \chi_{34}$	.	.	.	.	1	.	1	.	.	.	.	.	.	1
$65450_2 = \chi_{35}$	.	.	.	1	.	1	.	1	.	.	1	1	.	.
$65450_3 = \chi_{36}$	.	.	.	1	.	1	.	1	.	.	1	1	.	.
$71400_1 = \chi_{37}$	.	.	.	1	.	.	1	1	.	.	1	.	1	.
$71400_2 = \chi_{38}$	.	.	.	1	.	.	1	1	.	.	1	.	1	.
$78540_1 = \chi_{39}$	.	.	.	1	.	1	1	.	.	1	1	.	1	.
$83776_1 = \chi_{40}$	.	.	1	.	2	.	.	1	1	1	.	.	.	1
$104720_1 = \chi_{41}$	.	.	.	1	.	.	.	1	.	.	.	.	1	.
$104720_2 = \chi_{42}$	.	.	.	1	.	.	.	1	.	.	.	.	1	.

(Block 1:)	φ_{17}	φ_{20}	φ_{21}	φ_{25}
$1_1 = \chi_1$	.	.	.	.
$154_1 = \chi_2$	.	.	.	.
$187_1 = \chi_3$	.	.	.	.
$340_1 = \chi_4$	.	.	.	.
$595_1 = \chi_5$	.	.	.	.
$595_2 = \chi_6$	.	.	.	.
$748_1 = \chi_7$	.	.	.	.
$2244_1 = \chi_8$	.	.	.	.
$5236_1 = \chi_9$	.	.	.	.
$5236_2 = \chi_{10}$	.	.	.	.
$5950_1 = \chi_{11}$	.	.	.	.
$5950_2 = \chi_{12}$	.	.	.	.
$6545_1 = \chi_{13}$	.	.	.	.
$6545_2 = \chi_{14}$	.	.	.	.
$7700_1 = \chi_{15}$	.	.	.	.
$9350_1 = \chi_{16}$	.	.	.	.
$13090_1 = \chi_{18}$	.	.	.	.
$14960_1 = \chi_{19}$	.	.	.	.
$15708_1 = \chi_{21}$	.	.	.	.
$15708_2 = \chi_{22}$	.	.	.	.
$15708_3 = \chi_{23}$	.	.	.	.
$22848_1 = \chi_{24}$	.	.	.	.
$26180_1 = \chi_{25}$	.	.	.	.
$26180_2 = \chi_{26}$	.	.	.	.
$32725_1 = \chi_{27}$	.	.	.	.
$35904_1 = \chi_{28}$	.	.	.	.
$39270_1 = \chi_{29}$	.	.	.	.
$39270_2 = \chi_{30}$	.	.	.	.
$41888_1 = \chi_{31}$	.	.	.	.
$56100_1 = \chi_{32}$	.	.	.	.
$59840_1 = \chi_{33}$	.	.	.	.
$65450_1 = \chi_{34}$	.	.	.	.
$65450_2 = \chi_{35}$	.	.	.	.
$65450_3 = \chi_{36}$	.	.	.	.
$71400_1 = \chi_{37}$	.	.	.	.
$71400_2 = \chi_{38}$	.	.	.	.
$78540_1 = \chi_{39}$	.	.	.	.
$83776_1 = \chi_{40}$	.	.	.	.
$104720_1 = \chi_{41}$	1	.	.	.
$104720_2 = \chi_{42}$	1	.	.	.

(Block 1:)	φ_1	φ_2	φ_3	φ_4	φ_5	φ_6	φ_7	φ_8	φ_9	φ_{10}	φ_{13}	φ_{14}	φ_{15}	φ_{16}
$123200_1 = \chi_{47}$	1	1	1	2	1	1	.	2	1	1	1	1	1	.
$130900_1 = \chi_{48}$	.	.	.	1	1	1	1	1	.	.	1	1	.	1
$130900_2 = \chi_{49}$	2	2	2	2	2	1	.	2	2	1	.	1	.	1
$130900_3 = \chi_{50}$	.	.	.	1	.	.	.	1	.	.	1	.	1	.
$130900_4 = \chi_{51}$	.	.	.	2	.	1	1	1	.	.	2	1	1	.
$130900_5 = \chi_{52}$	.	.	.	.	1	.	.	1	.	.	.	.	.	1
$130900_6 = \chi_{53}$	.	.	.	.	1	.	.	1	.	.	.	.	.	1
$157080_1 = \chi_{54}$	.	.	.	.	.	.	1	1	.	.	1	.	.	.
$157080_2 = \chi_{55}$	.	.	.	.	.	.	.	1	.	.	.	1	.	1
$190400_1 = \chi_{58}$	.	.	.	.	.	.	.	1	.	.	.	.	.	.
$190400_2 = \chi_{59}$	.	.	.	.	.	.	.	1	.	.	.	.	.	.
$191488_1 = \chi_{60}$	.	.	.	1	1	.	1	2	1	1	.	.	1	1
$251328_1 = \chi_{63}$	1	1	1	2	1	1	.	1	1	1	.	1	1	.
$251328_2 = \chi_{64}$	1	1	1	2	1	1	1	2	1	1	1	1	1	1
$251328_3 = \chi_{65}$	1	1	1	2	1	1	1	2	1	1	1	1	1	1
$261800_1 = \chi_{66}$	.	.	.	.	1	1	.	.	.	1	.	1	.	1
$261800_2 = \chi_{67}$	.	.	.	1	.	1	.	.	.	1	1	1	1	.
$261800_3 = \chi_{68}$	.	.	.	.	1	.	1	2	.	.	.	.	.	1
$294525_1 = \chi_{69}$	.	.	.	.	2	.	1	.	.	1	.	.	.	2
$294525_2 = \chi_{70}$	.	.	.	.	.	.	1	.	.	.	.	.	.	.
$294525_3 = \chi_{71}$	.	.	.	.	.	.	.	2	.	.	.	.	1	.
$294525_4 = \chi_{72}$	.	.	.	.	.	.	.	2	.	.	.	.	1	.
$314160_1 = \chi_{74}$	.	.	.	.	.	.	.	1	.	.	.	1	.	.
$348160_1 = \chi_{75}$	1	.	1	1	2	1	1	2	1	1	1	1	1	1
$418880_1 = \chi_{76}$	.	.	.	.	.	.	1	.	.	.	1	.	1	.
$418880_2 = \chi_{77}$	.	.	.	1	.	.	1	3	.	.	1	1	1	1
$523600_1 = \chi_{82}$	.	.	.	1	1	1	1	2	.	1	1	1	1	1
$523600_2 = \chi_{83}$	.	.	.	1	1	1	1	2	.	1	1	1	1	1
$589050_1 = \chi_{88}$	.	.	.	.	.	.	1	2	.	.	.	.	1	.
$589050_2 = \chi_{89}$	.	.	.	.	.	.	1	2	.	.	.	.	1	.
$589050_3 = \chi_{90}$	.	.	.	.	2	.	1	2	.	1	.	.	1	2
$589050_4 = \chi_{91}$	.	.	.	.	2	.	1	2	.	1	.	.	1	2
$598400_1 = \chi_{92}$	2	1	2	2	2	2	1	3	1	1	2	2	1	1
$609280_1 = \chi_{93}$	.	.	.	.	.	.	1	1	.	.	1	.	1	.
$609280_2 = \chi_{94}$	.	.	.	.	.	.	1	1	.	.	1	.	1	.
$630784_1 = \chi_{95}$	.	.	1	1	2	.	1	3	1	1	.	1	1	2
$765952_1 = \chi_{104}$	1	.	1	.	1	1	1	1	.	.	2	1	1	.
$837760_1 = \chi_{105}$	.	.	.	1	.	.	1	2	.	.	1	1	2	.
$1047200_1 = \chi_{109}$	.	.	.	2	1	1	2	3	.	1	2	1	3	1
$1048576_1 = \chi_{110}$	.	.	1	.	1	.	1	2	.	.	1	1	1	1

(Block 1:)	φ_{17}	φ_{20}	φ_{21}	φ_{25}
$123200_1 = \chi_{47}$	.	.	.	.
$130900_1 = \chi_{48}$	.	.	.	.
$130900_2 = \chi_{49}$	.	.	.	.
$130900_3 = \chi_{50}$	1	.	.	.
$130900_4 = \chi_{51}$	.	.	.	.
$130900_5 = \chi_{52}$	1	.	.	.
$130900_6 = \chi_{53}$	1	.	.	.
$157080_1 = \chi_{54}$	.	1	.	.
$157080_2 = \chi_{55}$	1	.	.	.
$190400_1 = \chi_{58}$	1	1	.	.
$190400_2 = \chi_{59}$	1	1	.	.
$191488_1 = \chi_{60}$	1	.	.	.
$251328_1 = \chi_{63}$	.	.	1	.
$251328_2 = \chi_{64}$	1	.	.	.
$251328_3 = \chi_{65}$	1	.	.	.
$261800_1 = \chi_{66}$	.	.	1	.
$261800_2 = \chi_{67}$	.	.	1	.
$261800_3 = \chi_{68}$	1	1	.	.
$294525_1 = \chi_{69}$	.	.	1	.
$294525_2 = \chi_{70}$	.	.	.	1
$294525_3 = \chi_{71}$	2	1	.	.
$294525_4 = \chi_{72}$	2	1	.	.
$314160_1 = \chi_{74}$	.	1	1	.
$348160_1 = \chi_{75}$	.	.	1	.
$418880_1 = \chi_{76}$	1	.	.	1
$418880_2 = \chi_{77}$	2	1	.	.
$523600_1 = \chi_{82}$	1	1	1	.
$523600_2 = \chi_{83}$	1	1	1	.
$589050_1 = \chi_{88}$	2	1	.	1
$589050_2 = \chi_{89}$	2	1	.	1
$589050_3 = \chi_{90}$	2	1	1	.
$589050_4 = \chi_{91}$	2	1	1	.
$598400_1 = \chi_{92}$	1	1	1	.
$609280_1 = \chi_{93}$	2	1	.	1
$609280_2 = \chi_{94}$	2	1	.	1
$630784_1 = \chi_{95}$	2	1	1	.
$765952_1 = \chi_{104}$	1	1	1	1
$837760_1 = \chi_{105}$	2	1	1	1
$1047200_1 = \chi_{109}$	3	1	1	1
$1048576_1 = \chi_{110}$	3	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_{13}	φ_{14}	φ_{15}	φ_{16}
$1178100_1 = \chi_{113}$	.	.	.	.	2	.	2	4	.	1	.	.	2	2

(Block 1:)	φ_{17}	φ_{20}	φ_{21}	φ_{25}
$1178100_1 = \chi_{113}$	4	2	1	1

$$\begin{aligned}
\varphi_1 &= 1_1 \\
\varphi_2 &= 153_1 \\
\varphi_3 &= 186_1 \\
\varphi_4 &= 595_1 \\
\varphi_5 &= 2058_1 \\
\varphi_6 &= 4487_1 \\
\varphi_7 &= 5236_1 \\
\varphi_8 &= 5950_1 \\
\varphi_9 &= 6765_1 \\
\varphi_{10} &= 8603_1 \\
\varphi_{13} &= 26180_1 \\
\varphi_{14} &= 28238_1 \\
\varphi_{15} &= 33439_1 \\
\varphi_{16} &= 58156_1 \\
\varphi_{17} &= 64736_1 \\
\varphi_{20} &= 119714_1 \\
\varphi_{21} &= 160258_1 \\
\varphi_{25} &= 289289_1
\end{aligned}$$

Block 2:	φ_{11}	φ_{22}
$10692_1 = \chi_{17}$	1	.
$171072_1 = \chi_{56}$	.	1
$181764_1 = \chi_{57}$	1	1

$$\begin{aligned}
\varphi_{11} &= 10692_1 \\
\varphi_{22} &= 171072_1
\end{aligned}$$

Block 3:	φ_{12}	φ_{18}	φ_{23}	φ_{26}	φ_{28}
$15147_1 = \chi_{20}$	1	.	.	.	.
$106029_1 = \chi_{43}$	.	1	.	.	.
$212058_1 = \chi_{61}$	1	.	1	.	.
$302940_1 = \chi_{73}$	.	1	1	.	.
$424116_1 = \chi_{78}$	.	.	.	1	.
$530145_1 = \chi_{84}$	.	.	.	.	1
$848232_1 = \chi_{106}$	1	1	1	.	1
$969408_1 = \chi_{108}$	1	.	.	1	1
$1060290_1 = \chi_{111}$	.	1	.	1	1

$$\begin{aligned}
\varphi_{12} &= 15147_1 \\
\varphi_{18} &= 106029_1 \\
\varphi_{23} &= 196911_1 \\
\varphi_{26} &= 424116_1 \\
\varphi_{28} &= 530145_1
\end{aligned}$$

Block 4:	φ_{19}	φ_{27}		
$106029_2 = \chi_{44}$	1	.		
$106029_3 = \chi_{45}$	1	.		
$106029_4 = \chi_{46}$	1	.		
$424116_2 = \chi_{79}$	.	1	$\varphi_{19} =$	106029_2
$424116_3 = \chi_{80}$	.	1	$\varphi_{27} =$	424116_2
$424116_4 = \chi_{81}$	.	1		
$530145_2 = \chi_{85}$	1	1		
$530145_3 = \chi_{86}$	1	1		
$530145_4 = \chi_{87}$	1	1		

Block 5:	φ_{24}	φ_{33}		
$227205_1 = \chi_{62}$	1	.	$\varphi_{24} =$	227205_1
$908820_1 = \chi_{107}$	.	1	$\varphi_{33} =$	908820_1
$1136025_1 = \chi_{112}$	1	1		

Block 8:	φ_{31}		
$722925_1 = \chi_{98}$	1	$\varphi_{31} =$	722925_1
$722925_3 = \chi_{100}$	1		
$722925_6 = \chi_{103}$	1		

Block 9:	φ_{32}		
$722925_2 = \chi_{99}$	1	$\varphi_{32} =$	722925_2
$722925_4 = \chi_{101}$	1		
$722925_5 = \chi_{102}$	1		