

$A_{16} \pmod{3}$

	blocks	defect	matrix
$G :$	1	6	60×18
	2	5	51×20
	3	2	9×5
	4	0	$416988_1 = \chi_{102}, \varphi_{43}$
	5	0	$464373_1 = \chi_{106}, \varphi_{44}$
	$6 = \bar{5}$	0	$464373_2 = \chi_{107}, \varphi_{45}$

Block 1:	φ_1	φ_3	φ_5	φ_6	φ_9	φ_{10}	φ_{12}	φ_{15}	φ_{18}	φ_{19}	φ_{20}	φ_{23}	φ_{24}
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	.	.	.	.	.
$104_1 = \chi_3$	1	1	.	.	.	.	.	.	.	.	.	.	.
$440_1 = \chi_5$	.	1	1	.	.	.	.	.	.	.	.	.	.
$455_1 = \chi_6$	.	.	.	1	.	.	.	.	.	.	.	.	.
$896_1 = \chi_7$	1	1	1	1	.	.	.	.	.	.	.	.	.
$1430_1 = \chi_{10}$	2	.	.	.	1	.	.	.	.	.	.	.	.
$2548_1 = \chi_{11}$	.	1	1	.	.	1	.	.	.	.	.	.	.
$3640_1 = \chi_{15}$	1	1	.	.	1	1	.	.	.	.	.	.	.
$4004_1 = \chi_{17}$	1	.	1	1	.	.	1	.	.	.	.	.	.
$5005_1 = \chi_{18}$	.	.	.	.	.	.	.	1	.	.	.	.	.
$11648_1 = \chi_{21}$	.	.	.	.	.	.	1	.	1	.	.	.	.
$12012_1 = \chi_{22}$	2	.	.	.	1	.	.	.	.	1	.	.	.
$12012_2 = \chi_{23}$	2	.	.	.	1	.	.	.	.	1	.	.	.
$14300_1 = \chi_{25}$	1	2	1	.	.	1	1	.	1	.	.	.	.
$20020_1 = \chi_{28}$	1	1	1	1	1	1	.	.	.	.	1	.	.
$21021_1 = \chi_{29}$	.	.	.	.	.	.	.	.	.	.	.	1	.
$21021_2 = \chi_{30}$	.	.	.	.	.	.	.	.	.	.	.	1	.
$21840_1 = \chi_{31}$	.	.	1	2	.	.	.	1	.	.	1	.	.
$23100_1 = \chi_{32}$	2	2	1	.	1	1	.	.	1	1	.	.	.
$24024_1 = \chi_{33}$	.	.	.	.	.	.	.	1	1	1	.	.	.
$32032_1 = \chi_{36}$	2	1	.	.	1	.	.	.	.	.	.	.	.
$36608_1 = \chi_{38}$	.	.	.	.	.	.	.	1	.	1	.	1	.
$43120_1 = \chi_{41}$	1	.	1	1	.	.	1	.	.	.	1	.	1
$45760_1 = \chi_{42}$	2	.	.	.	.	.	1	.	1	1	.	.	1
$60060_2 = \chi_{45}$	.	1	.	.	.	.	.	.	1	.	.	1	.
$71500_1 = \chi_{49}$	2	.	.	1	1	.	.	.	.	.	1	.	1
$71680_1 = \chi_{50}$	3	2	2	2	1	1	1	1	1	1	1	.	1
$76440_1 = \chi_{52}$	3	2	1	.	1	1	.	.	.	1	.	.	.
$91520_1 = \chi_{56}$	2	.	.	1	1	1	.	.	.	.	.	.	.
$100100_1 = \chi_{58}$	.	.	.	1	.	1	.	2	.	.	.	.	.
$112112_1 = \chi_{60}$	1	.	.	1	1	1	.	1	.	.	1	.	.
$112112_2 = \chi_{61}$	3	.	1	2	1	.	1	1	.	1	1	1	1
$114400_1 = \chi_{62}$	.	.	.	.	.	.	.	.	.	1	.	2	.
$116480_1 = \chi_{65}$	2	1	1	.	.	.	.	.	.	.	.	.	.
$125125_1 = \chi_{66}$	.	.	1	1	.	.	.	1	.	.	1	.	.
$125125_2 = \chi_{67}$	.	.	1	1	.	.	.	1	.	.	1	.	.
$140140_1 = \chi_{68}$	2	1	.	.	.	.	1	.	.	.	.	1	1
$150150_1 = \chi_{69}$	2	.	.	.	.	.	.	.	.	1	.	.	1
$168168_1 = \chi_{72}$	1	2	1	.	.	1	.	.	.	.	.	.	.
$171600_1 = \chi_{73}$	5	2	.	.	2	1	.	.	1	2	.	1	1

(Block 1:)	φ_{26}	φ_{30}	φ_{34}	φ_{35}	φ_{37}
$1_1 = \chi_1$
$104_1 = \chi_3$
$440_1 = \chi_5$
$455_1 = \chi_6$
$896_1 = \chi_7$
$1430_1 = \chi_{10}$
$2548_1 = \chi_{11}$
$3640_1 = \chi_{15}$
$4004_1 = \chi_{17}$
$5005_1 = \chi_{18}$
$11648_1 = \chi_{21}$
$12012_1 = \chi_{22}$
$12012_2 = \chi_{23}$
$14300_1 = \chi_{25}$
$20020_1 = \chi_{28}$
$21021_1 = \chi_{29}$
$21021_2 = \chi_{30}$
$21840_1 = \chi_{31}$
$23100_1 = \chi_{32}$
$24024_1 = \chi_{33}$
$32032_1 = \chi_{36}$	1	.	.	.	.
$36608_1 = \chi_{38}$
$43120_1 = \chi_{41}$
$45760_1 = \chi_{42}$
$60060_2 = \chi_{45}$	1	.	.	.	.
$71500_1 = \chi_{49}$	1	.	.	.	.
$71680_1 = \chi_{50}$
$76440_1 = \chi_{52}$.	1	.	.	.
$91520_1 = \chi_{56}$.	.	.	1	.
$100100_1 = \chi_{58}$.	.	.	1	.
$112112_1 = \chi_{60}$.	.	.	1	.
$112112_2 = \chi_{61}$	1	.	.	.	.
$114400_1 = \chi_{62}$.	1	.	.	.
$116480_1 = \chi_{65}$	1	.	1	.	.
$125125_1 = \chi_{66}$	1
$125125_2 = \chi_{67}$	1
$140140_1 = \chi_{68}$	1	1	.	.	.
$150150_1 = \chi_{69}$	1	.	1	.	.
$168168_1 = \chi_{72}$.	1	.	.	1
$171600_1 = \chi_{73}$	1	1	.	.	.

(Block 1:)	φ_1	φ_3	φ_5	φ_6	φ_9	φ_{10}	φ_{12}	φ_{15}	φ_{18}	φ_{19}	φ_{20}	φ_{23}	φ_{24}
197120 ₁ = χ_{78}	1	.	.	.	.	.	.	.	.	1	.	1	.
200200 ₁ = χ_{79}	2	.	1	1	.	1	1	.	.	.	.	1	.
200200 ₂ = χ_{80}	2	.	1	.	.	.	.	.	.	1	.	.	.
202125 ₁ = χ_{81}	1	.	.	.	.	.	.	1	.	1	.	1	.
202125 ₂ = χ_{82}	1	.	.	.	.	.	.	1	.	1	.	1	.
210210 ₁ = χ_{84}	3	2	1	1	1	2	.	.	.	.	.	.	.
240240 ₁ = χ_{86}	3	1	1	1	1	2	.	2	1	2	.	1	.
266240 ₁ = χ_{89}	5	1	1	1	2	2	.	1	.	1	1	.	1
280280 ₁ = χ_{90}	5	2	1	.	1	1	1	.	1	2	.	2	1
280280 ₂ = χ_{91}	5	2	1	.	1	1	1	.	1	2	.	2	1
292864 ₁ = χ_{92}	4	1	1	1	1	1	1	2	1	2	.	2	.
305760 ₁ = χ_{94}	3	2	2	2	1	1	.	1	.	1	1	.	.
318500 ₁ = χ_{95}	3	1	1	1	1	2	1	1	1	1	1	2	1
320320 ₁ = χ_{96}	3	1	2	2	1	2	.	2	.	1	1	.	.
429000 ₂ = χ_{104}	3	2	2	.	.	1	.	2	1	3	.	1	.
448448 ₁ = χ_{105}	4	1	3	2	.	1	1	1	.	2	1	1	1
500500 ₁ = χ_{109}	5	2	2	2	1	2	1	2	1	2	1	2	1
512512 ₁ = χ_{110}	7	2	2	2	2	2	1	2	1	3	1	2	1
582400 ₁ = χ_{114}	7	3	3	2	1	1	1	1	1	3	1	2	1
640640 ₁ = χ_{118}	8	3	3	2	2	2	1	2	1	4	2	2	2

(Block 1:)	φ_{26}	φ_{30}	φ_{34}	φ_{35}	φ_{37}	
197120 ₁ = χ_{78}	.	1	.	.	1	$\varphi_1 = 1_1$
200200 ₁ = χ_{79}	.	.	1	1	.	$\varphi_3 = 103_1$
200200 ₂ = χ_{80}	.	.	1	.	1	$\varphi_5 = 337_1$
202125 ₁ = χ_{81}	.	1	.	.	1	$\varphi_6 = 455_1$
202125 ₂ = χ_{82}	.	1	.	.	1	$\varphi_9 = 1428_1$
210210 ₁ = χ_{84}	1	.	1	1	.	$\varphi_{10} = 2108_1$
240240 ₁ = χ_{86}	.	.	1	1	.	$\varphi_{12} = 3211_1$
266240 ₁ = χ_{89}	1	.	1	1	.	$\varphi_{15} = 5005_1$
280280 ₁ = χ_{90}	1	1	1	.	.	$\varphi_{18} = 8437_1$
280280 ₂ = χ_{91}	1	1	1	.	.	$\varphi_{19} = 10582_1$
292864 ₁ = χ_{92}	1	.	1	1	.	$\varphi_{20} = 15588_1$
305760 ₁ = χ_{94}	.	1	.	.	2	$\varphi_{23} = 21021_1$
318500 ₁ = χ_{95}	1	.	1	1	.	$\varphi_{24} = 23528_1$
320320 ₁ = χ_{96}	.	.	1	1	1	$\varphi_{26} = 30499_1$
429000 ₂ = χ_{104}	.	1	1	.	2	$\varphi_{30} = 61776_1$
448448 ₁ = χ_{105}	.	1	1	.	2	$\varphi_{34} = 85539_1$
500500 ₁ = χ_{109}	1	1	1	1	1	$\varphi_{35} = 87527_1$
512512 ₁ = χ_{110}	1	1	1	1	1	$\varphi_{37} = 103740_1$
582400 ₁ = χ_{114}	1	2	1	.	2	
640640 ₁ = χ_{118}	1	2	1	.	2	

Block 2:	φ_2	φ_4	φ_7	φ_8	φ_{11}	φ_{13}	φ_{14}	φ_{16}	φ_{17}	φ_{22}	φ_{25}	φ_{27}	φ_{29}
$15_1 = \chi_2$	1	.	.	.	.	.	.	.	.	.	.	.	.
$105_1 = \chi_4$	.	1	.	.	.	.	.	.	.	.	.	.	.
$1260_1 = \chi_8$	.	.	1	.	.	.	.	.	.	.	.	.	.
$1365_1 = \chi_9$	.	.	.	1	.	.	.	.	.	.	.	.	.
$2640_1 = \chi_{12}$	1	.	1	1	.	.	.	.	.	.	.	.	.
$3003_1 = \chi_{13}$	.	.	.	.	1	.	.	.	.	.	.	.	.
$3432_1 = \chi_{14}$	1	.	.	.	.	1	.	.	.	.	.	.	.
$3900_1 = \chi_{16}$	.	1	.	.	.	.	1	.	.	.	.	.	.
$6435_1 = \chi_{19}$	.	.	.	.	.	.	.	1	.	.	.	.	.
$10752_1 = \chi_{20}$	.	1	.	.	.	.	1	.	1	.	.	.	.
$13860_1 = \chi_{24}$	.	2	.	.	1	.	1	.	1	.	.	.	.
$18018_1 = \chi_{27}$	1	.	.	.	.	.	.	.	.	1	.	.	.
$24960_1 = \chi_{34}$	.	1	.	.	.	.	.	.	1	1	.	.	.
$30030_1 = \chi_{35}$	1	1	.	.	.	1	.	.	.	.	1	.	.
$36036_1 = \chi_{37}$	.	1	.	.	1	.	.	1	.	.	1	.	.
$38220_1 = \chi_{39}$	1	.	1	1	.	.	.	.	.	.	.	1	.
$51480_1 = \chi_{43}$	1	.	.	1	.	.	.	1	.	.	.	.	1
$60060_1 = \chi_{44}$	.	1	.	.	1	.	.	1	1	.	.	.	1
$65520_1 = \chi_{46}$	2	.	.	.	.	1	.	.	.	.	1	1	.
$68640_1 = \chi_{47}$	1	1	.	.	.	.	.	.	1	1	.	.	1
$69888_1 = \chi_{48}$	1	.	.	1	.	.	.	1	.	.	1	1	.
$80640_1 = \chi_{53}$	2	.	1	.	.	1	.	.	.	.	.	.	.
$82368_1 = \chi_{54}$	.	.	.	.	.	.	.	1	.	.	.	.	.
$85800_1 = \chi_{55}$	.	.	.	.	1	.	.	.	.	.	.	.	.
$91728_1 = \chi_{57}$	1	.	1	.	.	.	.	.	.	.	.	.	.
$105600_1 = \chi_{59}$	.	.	.	1	.	.	.	.	.	.	.	.	.
$114660_1 = \chi_{63}$	.	2	.	.	1	.	1	.	1	1	.	.	.
$150150_2 = \chi_{70}$	1	1	1	1	.	.	.	1	1	.	.	.	1
$155232_1 = \chi_{71}$	.	.	.	.	.	.	.	.	.	.	.	.	.
$173250_1 = \chi_{74}$	.	.	.	.	.	.	.	.	.	.	.	.	.
$180180_1 = \chi_{75}$	2	.	1	2	.	1	.	1	.	.	1	1	.
$180180_2 = \chi_{76}$	2	.	.	.	.	1	.	.	.	1	.	.	.
$194040_1 = \chi_{77}$	2	.	1	2	.	1	.	1	.	.	.	.	.
$240240_2 = \chi_{87}$	1	1	.	.	.	.	1	.	.	.	1	.	.
$262080_1 = \chi_{88}$	1	2	.	.	1	.	1	1	2	1	.	.	1
$300300_1 = \chi_{93}$	1	1	.	1	1	1	.	1	.	.	1	.	.
$336336_1 = \chi_{97}$	2	1	1	1	1	.	.	2	1	1	.	.	1
$337920_1 = \chi_{98}$	.	.	.	.	1	.	.	1	.	.	.	.	.
$360360_1 = \chi_{99}$	1	2	.	.	1	.	1	.	1	1	.	.	.
$360360_2 = \chi_{100}$	1	.	1	2	.	.	.	1	.	.	.	.	.

(Block 2:)	φ_{32}	φ_{33}	φ_{36}	φ_{38}	φ_{40}	φ_{41}	φ_{42}
$15_1 = \chi_2$
$105_1 = \chi_4$
$1260_1 = \chi_8$
$1365_1 = \chi_9$
$2640_1 = \chi_{12}$
$3003_1 = \chi_{13}$
$3432_1 = \chi_{14}$
$3900_1 = \chi_{16}$
$6435_1 = \chi_{19}$
$10752_1 = \chi_{20}$
$13860_1 = \chi_{24}$
$18018_1 = \chi_{27}$
$24960_1 = \chi_{34}$
$30030_1 = \chi_{35}$
$36036_1 = \chi_{37}$
$38220_1 = \chi_{39}$
$51480_1 = \chi_{43}$
$60060_1 = \chi_{44}$
$65520_1 = \chi_{46}$
$68640_1 = \chi_{47}$
$69888_1 = \chi_{48}$
$80640_1 = \chi_{53}$	1	.	.	.	.	.	.
$82368_1 = \chi_{54}$	1	.	.	.	.	.	.
$85800_1 = \chi_{55}$.	1	.	.	.	.	.
$91728_1 = \chi_{57}$.	.	1	.	.	.	.
$105600_1 = \chi_{59}$.	.	.	1	.	.	.
$114660_1 = \chi_{63}$.	1	.	.	.	.	.
$150150_2 = \chi_{70}$.	.	1	.	.	.	.
$155232_1 = \chi_{71}$	1	.	.
$173250_1 = \chi_{74}$.	1	1	.	.	.	.
$180180_1 = \chi_{75}$.	.	.	1	.	.	.
$180180_2 = \chi_{76}$	1	1	.	.	.	.	.
$194040_1 = \chi_{77}$	1	.	.	1	.	.	.
$240240_2 = \chi_{87}$	1	.
$262080_1 = \chi_{88}$.	1	1	.	.	.	.
$300300_1 = \chi_{93}$.	.	.	1	1	.	.
$336336_1 = \chi_{97}$	1	1	1	.	.	.	.
$337920_1 = \chi_{98}$.	1	1	.	1	.	.
$360360_1 = \chi_{99}$.	1	1	.	1	.	.
$360360_2 = \chi_{100}$.	.	1	1	1	.	.

(Block 2:)	φ_2	φ_4	φ_7	φ_8	φ_{11}	φ_{13}	φ_{14}	φ_{16}	φ_{17}	φ_{22}	φ_{25}	φ_{27}	φ_{29}
$411840_1 = \chi_{101}$	2	1	.	.	1	1	1	1	.	.	1	.	.
$429000_1 = \chi_{103}$	2	.	1	1	.	1	.	1	.	.	1	.	.
$480480_1 = \chi_{108}$	2	1	1	1	.	.	.	1	1	.	.	1	.
$549120_1 = \chi_{112}$	2	1	1	1	1	1	.	1	1	1	.	.	.
$559104_1 = \chi_{113}$	1	2	.	.	.	.	1	.	1	.	.	.	.
$600600_1 = \chi_{115}$	1	2	.	.	1	.	.	1	1	.	.	.	.
$630630_1 = \chi_{116}$	2	2	.	.	1	.	1	1	1	.	1	1	.
$630630_2 = \chi_{117}$	2	.	.	.	.	.	.	1	.	.	.	.	.
$698880_1 = \chi_{121}$	4	1	1	1	.	1	.	1	.	.	1	1	.
$819000_1 = \chi_{122}$	2	2	1	.	1	.	1	1	1	.	.	.	.
$1153152_1 = \chi_{123}$	4	2	1	2	1	1	1	2	1	.	1	1	.

(Block 2:)	φ_{32}	φ_{33}	φ_{36}	φ_{38}	φ_{40}	φ_{41}	φ_{42}
$411840_1 = \chi_{101}$	1	1	.	.	.	1	.
$429000_1 = \chi_{103}$	1	.	.	1	.	1	.
$480480_1 = \chi_{108}$	.	.	1	.	.	.	1
$549120_1 = \chi_{112}$	1	1	1	1	1	.	.
$559104_1 = \chi_{113}$	.	.	.	.	.	1	1
$600600_1 = \chi_{115}$	.	.	1	.	1	.	1
$630630_1 = \chi_{116}$	.	.	.	.	.	1	1
$630630_2 = \chi_{117}$	1	.	.	.	.	1	1
$698880_1 = \chi_{121}$	1	.	.	.	.	1	1
$819000_1 = \chi_{122}$	1	1	1	.	.	1	1
$1153152_1 = \chi_{123}$	1	1	1	1	1	1	1

- $\varphi_2 = 15_1$
- $\varphi_4 = 105_1$
- $\varphi_7 = 1260_1$
- $\varphi_8 = 1365_1$
- $\varphi_{11} = 3003_1$
- $\varphi_{13} = 3417_1$
- $\varphi_{14} = 3795_1$
- $\varphi_{16} = 6435_1$
- $\varphi_{17} = 6852_1$
- $\varphi_{22} = 18003_1$
- $\varphi_{25} = 26493_1$
- $\varphi_{27} = 35580_1$
- $\varphi_{29} = 43665_1$
- $\varphi_{32} = 75933_1$
- $\varphi_{33} = 82797_1$
- $\varphi_{36} = 90453_1$
- $\varphi_{38} = 104235_1$
- $\varphi_{40} = 155232_1$
- $\varphi_{41} = 209832_1$
- $\varphi_{42} = 338400_1$

Block 3:	φ_{21}	φ_{28}	φ_{31}	φ_{39}	φ_{46}
$16848_1 = \chi_{26}$	1	.	.	.	.
$42120_1 = \chi_{40}$	.	1	.	.	.
$73710_1 = \chi_{51}$	.	.	1	.	.
$115830_1 = \chi_{64}$	.	.	.	1	.
$206388_1 = \chi_{83}$	1	.	1	1	.
$231660_1 = \chi_{85}$	.	1	1	1	.
$515970_1 = \chi_{111}$	.	.	.	.	1
$648648_1 = \chi_{119}$	1	.	.	1	1
$673920_1 = \chi_{120}$	.	1	.	1	1

$$\begin{aligned} \varphi_{21} &= 16848_1 \\ \varphi_{28} &= 42120_1 \\ \varphi_{31} &= 73710_1 \\ \varphi_{39} &= 115830_1 \\ \varphi_{46} &= 515970_1 \end{aligned}$$