

$Fi_{23} \pmod{5}$

	blocks	defect	matrix
$G :$	1	2	20×16
	2	2	20×16
	3	1	5×4
	4	0	$752675_1 = \chi_{12}, \varphi_{13}$
	5	1	5×4
	6	0	$837200_1 = \chi_{15}, \varphi_{15}$
	$7 = \bar{6}$	0	$837200_2 = \chi_{16}, \varphi_{16}$
	8	0	$850850_1 = \chi_{17}, \varphi_{17}$
	$9 = \bar{8}$	0	$850850_2 = \chi_{18}, \varphi_{18}$
	10	1	5×4
	11	1	5×4
	12	1	5×4
	13	0	$10674300_1 = \chi_{31}, \varphi_{31}$
	14	0	$20322225_1 = \chi_{36}, \varphi_{36}$
	15	0	$21348600_1 = \chi_{38}, \varphi_{39}$
	16	0	$28464800_1 = \chi_{41}, \varphi_{42}$
	17	0	$29354325_1 = \chi_{42}, \varphi_{43}$
	18	0	$40840800_1 = \chi_{45}, \varphi_{47}$
	19	0	$48034350_1 = \chi_{47}, \varphi_{49}$
	20	0	$58708650_1 = \chi_{53}, \varphi_{52}$
	21	0	$58708650_2 = \chi_{54}, \varphi_{53}$
	22	0	$78278200_1 = \chi_{58}, \varphi_{56}$
	23	0	$153014400_1 = \chi_{62}, \varphi_{61}$
	24	0	$153014400_2 = \chi_{63}, \varphi_{62}$
	25	0	$176125950_1 = \chi_{66}, \varphi_{64}$
	26	0	$176125950_2 = \chi_{67}, \varphi_{65}$
	27	0	$216154575_1 = \chi_{71}, \varphi_{69}$
	28	0	$216770400_1 = \chi_{72}, \varphi_{70}$
	29	0	$264188925_1 = \chi_{75}, \varphi_{72}$
	30	0	$289027200_1 = \chi_{80}, \varphi_{74}$
	31	0	$289027200_2 = \chi_{81}, \varphi_{75}$
	32	0	$313112800_1 = \chi_{83}, \varphi_{76}$
	33	0	$313112800_2 = \chi_{84}, \varphi_{77}$
	34	0	$313112800_3 = \chi_{85}, \varphi_{78}$
	35	0	$341577600_1 = \chi_{88}, \varphi_{79}$
	36	0	$352251900_1 = \chi_{90}, \varphi_{80}$
	37	0	$504627200_1 = \chi_{94}, \varphi_{82}$
	38	0	$504627200_2 = \chi_{95}, \varphi_{83}$
	39	0	$528377850_1 = \chi_{97}, \varphi_{84}$
	40	0	$559458900_1 = \chi_{98}, \varphi_{85}$

[illegible]

(Block 1:)	φ_{48}	φ_{50}	φ_{66}		
$1_1 = \chi_1$	.	.	.	$\varphi_1 =$	1_1
$3588_1 = \chi_3$	.	.	.	$\varphi_3 =$	3588_1
$5083_1 = \chi_4$	.	.	.	$\varphi_4 =$	5083_1
$25806_1 = \chi_5$	.	.	.	$\varphi_5 =$	25806_1
$274482_1 = \chi_{10}$	.	.	.	$\varphi_{10} =$	274482_1
$1951872_1 = \chi_{20}$	.	.	.	$\varphi_{20} =$	1948284_1
$7468032_1 = \chi_{26}$	.	.	.	$\varphi_{26} =$	7193549_1
$9108736_1 = \chi_{28}$	.	.	.	$\varphi_{28} =$	9103653_1
$9108736_2 = \chi_{29}$	.	.	.	$\varphi_{29} =$	9103653_2
$10567557_1 = \chi_{30}$	.	.	.	$\varphi_{30} =$	10267269_1
$18812574_1 = \chi_{35}$	.	.	.	$\varphi_{35} =$	16864290_1
$42270228_1 = \chi_{46}$	.	.	.	$\varphi_{45} =$	37544142_1
$56360304_1 = \chi_{50}$	.	.	.	$\varphi_{46} =$	38625004_1
$56360304_2 = \chi_{51}$	.	.	.	$\varphi_{48} =$	46961837_1
$57254912_1 = \chi_{52}$	1	.	.	$\varphi_{50} =$	48125453_1
$73531392_1 = \chi_{56}$	.	1	.	$\varphi_{66} =$	178866469_1
$133398252_1 = \chi_{61}$	1	.	.		
$166559744_2 = \chi_{65}$	.	1	.		
$263376036_1 = \chi_{74}$	1	.	1		
$264536064_2 = \chi_{77}$	.	1	1		

Block 2:	φ_2	φ_6	φ_7	φ_8	φ_9	φ_{12}	φ_{27}	φ_{32}	φ_{37}	φ_{40}	φ_{41}	φ_{51}	φ_{55}
$782_1 = \chi_2$	1	.	.	.	.	.	.	.	.	.	.	.	.
$30888_1 = \chi_6$	1	1	.	.	.	.	.	.	.	.	.	.	.
$60996_1 = \chi_7$	.	.	1	.	.	.	.	.	.	.	.	.	.
$106743_1 = \chi_8$	.	1	.	1	.	.	.	.	.	.	.	.	.
$111826_1 = \chi_9$	.	.	.	.	1	.	.	.	.	.	.	.	.
$812889_1 = \chi_{14}$	.	.	1	.	.	1	.	.	.	.	.	.	.
$8783424_1 = \chi_{27}$	.	.	.	1	.	1	1	.	.	.	.	.	.
$12077208_1 = \chi_{32}$	.	1	.	1	.	1	.	1	.	.	.	.	.
$21135114_1 = \chi_{37}$	.	.	1	.	.	.	.	.	1	.	.	.	.
$37573536_1 = \chi_{44}$	1	1	.	.	.	.	.	1	.	.	1	.	.
$48308832_1 = \chi_{48}$	1	.	.	.	1	.	.	.	.	.	.	1	.
$73531392_2 = \chi_{57}$	.	.	.	.	1	.	.	.	.	1	.	1	.
$166559744_1 = \chi_{64}$	.	.	.	.	.	.	.	.	1	1	.	.	.
$207793431_1 = \chi_{69}$	.	.	.	.	.	.	.	.	1	.	.	.	1
$244563462_1 = \chi_{73}$	1	.	.	.	.	.	.	.	.	.	1	1	.
$264536064_1 = \chi_{76}$	.	.	.	.	.	.	.	.	1	1	.	1	.
$289103904_1 = \chi_{82}$	.	.	1	.	.	1	1	1	.	.	.	.	.
$343529472_1 = \chi_{89}$	.	.	.	.	.	.	1	.	.	.	.	.	1
$476702577_1 = \chi_{92}$	.	.	.	.	.	.	.	1	.	.	1	.	.
$526752072_1 = \chi_{96}$	.	.	1	.	.	.	.	.	1	.	.	.	1

(Block 2:)	φ_{59}	φ_{63}	φ_{73}		
$782_1 = \chi_2$	.	.	.	$\varphi_2 =$	782_1
$30888_1 = \chi_6$	.	.	.	$\varphi_6 =$	30106_1
$60996_1 = \chi_7$	.	.	.	$\varphi_7 =$	60996_1
$106743_1 = \chi_8$	.	.	.	$\varphi_8 =$	76637_1
$111826_1 = \chi_9$	.	.	.	$\varphi_9 =$	111826_1
$812889_1 = \chi_{14}$	.	.	.	$\varphi_{12} =$	751893_1
$8783424_1 = \chi_{27}$	.	.	.	$\varphi_{27} =$	7954894_1
$12077208_1 = \chi_{32}$	.	.	.	$\varphi_{32} =$	11218572_1
$21135114_1 = \chi_{37}$	.	.	.	$\varphi_{37} =$	21074118_1
$37573536_1 = \chi_{44}$	.	.	.	$\varphi_{40} =$	25223342_1
$48308832_1 = \chi_{48}$	.	.	.	$\varphi_{41} =$	26324076_1
$73531392_2 = \chi_{57}$	.	.	.	$\varphi_{51} =$	48196224_1
$166559744_1 = \chi_{64}$	1	.	.	$\varphi_{55} =$	66457029_1
$207793431_1 = \chi_{69}$	1	.	.	$\varphi_{59} =$	120262284_1
$244563462_1 = \chi_{73}$	.	1	.	$\varphi_{63} =$	170042380_1
$264536064_1 = \chi_{76}$	.	1	.	$\varphi_{73} =$	269117549_1
$289103904_1 = \chi_{82}$	.	.	1		
$343529472_1 = \chi_{89}$	.	.	1		
$476702577_1 = \chi_{92}$	.	1	1		
$526752072_1 = \chi_{96}$	.	1	1		

Block 3:	φ_{11}	φ_{19}	φ_{25}	φ_{34}		
$279565_1 = \chi_{11}$	1	.	.	.	$\varphi_{11} =$	279565_1
$1677390_1 = \chi_{19}$	.	1	.	.	$\varphi_{19} =$	1677390_1
$6709560_1 = \chi_{25}$	1	.	1	.	$\varphi_{25} =$	6429995_1
$17892160_1 = \chi_{34}$	.	1	.	1	$\varphi_{34} =$	16214770_1
$22644765_1 = \chi_{39}$	.	.	1	1		

Block 5:	φ_{14}	φ_{24}	φ_{38}	φ_{44}		
$789360_1 = \chi_{13}$	1	.	.	.	$\varphi_{14} =$	789360_1
$5533110_1 = \chi_{24}$	.	1	.	.	$\varphi_{24} =$	5533110_1
$26838240_1 = \chi_{40}$	.	1	1	.	$\varphi_{38} =$	21305130_1
$35225190_1 = \chi_{43}$	1	.	.	1	$\varphi_{44} =$	34435830_1
$55740960_1 = \chi_{49}$	.	.	1	1		

Block 10:	φ_{21}	φ_{54}	φ_{58}	φ_{71}
$2236520_1 = \chi_{21}$	1	.	.	.
$65875680_1 = \chi_{55}$	1	1	.	.
$97976320_1 = \chi_{60}$	.	.	1	.
$287721720_1 = \chi_{79}$	.	1	.	1
$322058880_1 = \chi_{86}$	.	.	1	1

$$\begin{aligned}
\varphi_{21} &= 2236520_1 \\
\varphi_{54} &= 63639160_1 \\
\varphi_{58} &= 97976320_1 \\
\varphi_{71} &= 224082560_1
\end{aligned}$$

Block 11:	φ_{22}	φ_{60}	φ_{67}	φ_{81}
$2322540_1 = \chi_{22}$	1	.	.	.
$203802885_1 = \chi_{68}$	1	.	1	.
$336061440_1 = \chi_{87}$	.	1	1	.
$362316240_1 = \chi_{91}$	.	.	.	1
$496897335_1 = \chi_{93}$	.	1	.	1

$$\begin{aligned}
\varphi_{22} &= 2322540_1 \\
\varphi_{60} &= 134581095_1 \\
\varphi_{67} &= 201480345_1 \\
\varphi_{81} &= 362316240_1
\end{aligned}$$

Block 12:	φ_{23}	φ_{33}	φ_{57}	φ_{68}
$3913910_1 = \chi_{23}$	1	.	.	.
$15096510_1 = \chi_{33}$	.	1	.	.
$93933840_1 = \chi_{59}$	.	1	1	.
$211351140_1 = \chi_{70}$	1	.	.	1
$286274560_1 = \chi_{78}$	.	.	1	1

$$\begin{aligned}
\varphi_{23} &= 3913910_1 \\
\varphi_{33} &= 15096510_1 \\
\varphi_{57} &= 78837330_1 \\
\varphi_{68} &= 207437230_1
\end{aligned}$$