Fi_{23} (mod 7)

	blocks	defect	matrix
$G:$	1	1	7×6
	2	1	7×6
	3	1	7×6
	4	1	7×6
	5	1	7×6
	6	1	7×6
	7	0	$106743_1 = \chi_8, \varphi_8$
	8	1	7×6
	9	0	$752675_1 = \chi_{12}, \varphi_{12}$
	10	0	$812889_1 = \chi_{14}, \varphi_{14}$
	11	0	$837200_1 = \chi_{15}, \varphi_{15}$
	$12 = \overline{11}$	0	$837200_2 = \chi_{16}, \varphi_{16}$
	13	0	$850850_1 = \chi_{17}, \varphi_{17}$
	$14 = \overline{13}$	0	$850850_2 = \chi_{18}, \varphi_{18}$
	15	0	$3913910_1 = \chi_{23}, \varphi_{24}$
	16	0	$9108736_1 = \chi_{28}, \varphi_{28}$
	$17 = \overline{16}$	0	$9108736_2 = \chi_{29}, \varphi_{29}$
	18	0	$10567557_1 = \chi_{30}, \varphi_{30}$
	19	0	$10674300_1 = \chi_{31}, \varphi_{31}$
	20	0	$20322225_1 = \chi_{36}, \varphi_{36}$
	21	0	$21135114_1 = \chi_{37}, \varphi_{37}$
	22	0	$21348600_1 = \chi_{38}, \varphi_{38}$
	23	0	$28464800_1 = \chi_{41}, \varphi_{41}$
	24	0	$29354325_1 = \chi_{42}, \varphi_{42}$
	25	0	$35225190_1 = \chi_{43}, \varphi_{44}$
	26	0	$37573536_1 = \chi_{44}, \varphi_{45}$
	27	0	$40840800_1 = \chi_{45}, \varphi_{46}$
	28	0	$42270228_1 = \chi_{46}, \varphi_{47}$
	29	0	$48034350_1 = \chi_{47}, \varphi_{48}$
	30	0	$56360304_1 = \chi_{50}, \varphi_{52}$
	31	0	$56360304_2 = \chi_{51}, \varphi_{53}$
	32	0	$58708650_1 = \chi_{53}, \varphi_{54}$
	33	0	$58708650_2 = \chi_{54}, \varphi_{55}$
	34	0	$78278200_1 = \chi_{58}, \varphi_{57}$
	35	0	$93933840_1 = \chi_{59}, \varphi_{58}$
	36	0	$153014400_1 = \chi_{62}, \varphi_{63}$
	37	0	$153014400_2 = \chi_{63}, \varphi_{64}$
	38	0	$176125950_1 = \chi_{66}, \varphi_{66}$
	39	0	$176125950_2 = \chi_{67}, \varphi_{67}$
	40	0	$211351140_1 = \chi_{70}, \varphi_{71}$

	blocks	defect	matrix
	41	0	$216154575_1 = \chi_{71}, \varphi_{72}$
	42	0	$216770400_1 = \chi_{72}, \varphi_{73}$
	43	0	$263376036_1 = \chi_{74}, \varphi_{76}$
	44	0	$264188925_1 = \chi_{75}, \varphi_{77}$
	45	0	$289027200_1 = \chi_{80}, \varphi_{79}$
	46	0	$289027200_2 = \chi_{81}, \varphi_{80}$
	47	0	$313112800_1 = \chi_{83}, \varphi_{82}$
	48	0	$313112800_2 = \chi_{84}, \varphi_{83}$
	49	0	$313112800_3 = \chi_{85}, \varphi_{84}$
	50	0	$341577600_1 = \chi_{88}, \varphi_{85}$
	51	0	$352251900_1 = \chi_{90}, \varphi_{86}$
	52	0	$504627200_1 = \chi_{94}, \varphi_{87}$
	53	0	$504627200_2 = \chi_{95}, \varphi_{88}$
	54	0	$526752072_1 = \chi_{96}, \varphi_{89}$
	55	0	$528377850_1 = \chi_{97}, \varphi_{90}$
	56	0	$559458900_1 = \chi_{98}, \varphi_{91}$

Block 1:	φ_1	φ_{19}	φ_{27}	φ_{60}	φ_{65}	φ_{69}
$1_1 = \chi_1$	1	.	.	.	.	.
$1677390_1 = \chi_{19}$	.	1	.	.	.	.
$8783424_1 = \chi_{27}$	1	.	1	.	.	.
$166559744_2 = \chi_{65}$	.	.	1	.	1	.
$207793431_1 = \chi_{69}$	.	1	.	.	.	1
$287721720_1 = \chi_{79}$	.	.	.	1	1	.
$336061440_1 = \chi_{87}$	.	.	.	1	.	1

$\varphi_1 = 1_1$
$\varphi_{19} = 1677390_1$
$\varphi_{27} = 8783423_1$
$\varphi_{60} = 129945399_1$
$\varphi_{65} = 157776321_1$
$\varphi_{69} = 206116041_1$

Block 2:	φ_2	φ_{13}	φ_{33}	φ_{43}	φ_{51}	φ_{74}
$782_1 = \chi_2$	1	.	.	.	.	.
$789360_1 = \chi_{13}$	.	1	.	.	.	.
$15096510_1 = \chi_{33}$	.	1	1	.	.	.
$48308832_1 = \chi_{48}$	.	.	1	1	.	.
$55740960_1 = \chi_{49}$	1	.	.	.	1	.
$264536064_1 = \chi_{76}$	.	.	.	1	.	1
$286274560_1 = \chi_{78}$	.	.	.	.	1	1

$\varphi_2 = 782_1$
$\varphi_{13} = 789360_1$
$\varphi_{33} = 14307150_1$
$\varphi_{43} = 34001682_1$
$\varphi_{51} = 55740178_1$
$\varphi_{74} = 230534382_1$

Block 3:	φ_3	φ_6	φ_{23}	φ_{25}	φ_{32}	φ_{56}
$3588_1 = \chi_3$	1	.	.	.	.	.
$30888_1 = \chi_6$	.	1	.	.	.	.
$2322540_1 = \chi_{22}$	1	.	1	.	.	.
$6709560_1 = \chi_{25}$	.	.	1	1	.	.
$12077208_1 = \chi_{32}$	.	1	.	.	1	.
$65875680_1 = \chi_{55}$	.	.	.	1	.	1
$73531392_1 = \chi_{56}$	.	.	.	.	1	1

$\varphi_3 = 3588_1$
$\varphi_6 = 30888_1$
$\varphi_{23} = 2318952_1$
$\varphi_{25} = 4390608_1$
$\varphi_{32} = 12046320_1$
$\varphi_{56} = 61485072_1$

Block 4:	φ_4	φ_9	φ_{22}	φ_{34}	φ_{50}	φ_{62}
$5083_1 = \chi_4$	1	.	.	.	.	.
$111826_1 = \chi_9$	.	1	.	.	.	.
$2236520_1 = \chi_{21}$	1	.	1	.	.	.
$17892160_1 = \chi_{34}$	.	1	.	1	.	.
$57254912_1 = \chi_{52}$	.	.	1	.	1	.
$166559744_1 = \chi_{64}$	.	.	.	1	.	1
$203802885_1 = \chi_{68}$	.	.	.	.	1	1

$\varphi_4 = 5083_1$
$\varphi_9 = 111826_1$
$\varphi_{22} = 2231437_1$
$\varphi_{34} = 17780334_1$
$\varphi_{50} = 55023475_1$
$\varphi_{62} = 148779410_1$

Block 5:	φ_5	φ_{35}	φ_{39}	φ_{49}	φ_{68}	φ_{81}
$25806_1 = \chi_5$	1	.	.	.	.	.
$18812574_1 = \chi_{35}$	.	1	.	.	.	.
$22644765_1 = \chi_{39}$	1	.	1	.	.	.
$73531392_2 = \chi_{57}$	.	.	1	1	.	.
$244563462_1 = \chi_{73}$	.	.	.	1	1	.
$322058880_1 = \chi_{86}$	.	1	.	.	.	1
$496897335_1 = \chi_{93}$	.	.	.	.	1	1

$\varphi_5 = 25806_1$
$\varphi_{35} = 18812574_1$
$\varphi_{39} = 22618959_1$
$\varphi_{49} = 50912433_1$
$\varphi_{68} = 193651029_1$
$\varphi_{81} = 303246306_1$

Block 6:	φ_7	φ_{10}	φ_{21}	φ_{26}	φ_{40}	φ_{75}
$60996_1 = \chi_7$	1	.	.	.	.	.
$274482_1 = \chi_{10}$	.	1	.	.	.	.
$5533110_1 = \chi_{24}$	1	.	.	1	.	.
$7468032_1 = \chi_{26}$	.	.	1	1	.	.
$26838240_1 = \chi_{40}$	.	1	.	.	1	.
$264536064_2 = \chi_{77}$	.	.	1	.	.	1
$289103904_1 = \chi_{82}$	.	.	.	.	1	1

$\varphi_7 = 60996_1$
$\varphi_{10} = 274482_1$
$\varphi_{21} = 1995918_1$
$\varphi_{26} = 5472114_1$
$\varphi_{40} = 26563758_1$
$\varphi_{75} = 262540146_1$

Block 8:	φ_{11}	φ_{20}	φ_{59}	φ_{61}	φ_{70}	φ_{78}
$279565_1 = \chi_{11}$	1	.	.	.	.	.
$1951872_1 = \chi_{20}$	.	1	.	.	.	.
$97976320_1 = \chi_{60}$	.	1	1	.	.	.
$133398252_1 = \chi_{61}$	1	.	.	1	.	.
$343529472_1 = \chi_{89}$	.	.	.	1	1	.
$362316240_1 = \chi_{91}$	.	.	1	.	.	1
$476702577_1 = \chi_{92}$	.	.	.	.	1	1

$\varphi_{11} = 279565_1$
$\varphi_{20} = 1951872_1$
$\varphi_{59} = 96024448_1$
$\varphi_{61} = 133118687_1$
$\varphi_{70} = 210410785_1$
$\varphi_{78} = 266291792_1$