$A_{14} \pmod 7$

	blocks	defect	matrix
$G:$	1	2	22×18
	2	1	7×6
	3	1	7×6
	4	1	7×6
	5	0	$637_1 = \chi_9, \varphi_{43}$
	6	1	7×6
	7	0	$5733_1 = \chi_{23}, \varphi_{44}$
	8	0	$7007_1 = \chi_{28}, \varphi_{45}$
	9	0	$7007_2 = \chi_{29}, \varphi_{46}$
	10	0	$7007_3 = \chi_{30}, \varphi_{47}$
	11	0	$7644_1 = \chi_{31}, \varphi_{48}$
	12	0	$8085_1 = \chi_{32}, \varphi_{49}$
	13	0	$14014_1 = \chi_{37}, \varphi_{50}$
	14	0	$14014_2 = \chi_{38}, \varphi_{51}$

	blocks	defect	matrix
	15	0	$14014_3 = \chi_{39}, \varphi_{52}$
	16	0	$20384_1 = \chi_{45}, \varphi_{53}$
	17	0	$21021_1 = \chi_{46}, \varphi_{54}$
	18	0	$21021_2 = \chi_{47}, \varphi_{55}$
	19	0	$21021_3 = \chi_{48}, \varphi_{56}$
	20	0	$28028_1 = \chi_{55}, \varphi_{57}$
	21	0	$28665_1 = \chi_{56}, \varphi_{58}$
	22	0	$35035_1 = \chi_{61}, \varphi_{59}$
	23	0	$35035_2 = \chi_{62}, \varphi_{60}$
	24	0	$42042_1 = \chi_{64}, \varphi_{61}$
	25	0	$42042_2 = \chi_{65}, \varphi_{62}$
	26	0	$47775_1 = \chi_{66}, \varphi_{63}$
	27	0	$63063_1 = \chi_{70}, \varphi_{64}$

Block 1:	φ_1	φ_2	φ_3	φ_4	φ_5	φ_6	φ_7	φ_8	φ_9	φ_{10}	φ_{11}	φ_{12}	φ_{13}	φ_{14}	φ_{15}	φ_{16}
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$13_1 = \chi_2$	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$78_1 = \chi_4$	.	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.
$286_1 = \chi_6$	.	.	1	1	.	.	.	.	.	.	.	.	.	.	.	.
$429_1 = \chi_7$	.	1	.	.	1	.	.	.	.	.	.	.	.	.	.	.
$715_1 = \chi_{10}$	.	.	.	1	.	1	.	.	.	.	.	.	.	.	.	.
$1287_1 = \chi_{13}$	.	.	.	.	.	1	1	.	.	.	.	.	.	.	.	.
$1716_1 = \chi_{15}$	.	.	.	.	.	.	1	1	1	.	.	.	.	.	.	.
$4576_1 = \chi_{19}$	1	1	1	.	1	.	.	.	.	1	.	.	.	.	.	.
$4752_1 = \chi_{20}$	.	.	.	.	.	.	1	1	.	.	1	.	.	.	.	.
$4752_2 = \chi_{21}$	.	.	.	.	.	.	1	.	1	.	.	1	.	.	.	.
$6435_1 = \chi_{27}$	1	.	.	.	.	.	.	.	.	1	.	.	1	.	.	.
$15444_1 = \chi_{43}$	.	.	1	1	.	.	.	.	.	1	.	.	.	1	.	.
$21450_1 = \chi_{49}$	.	.	.	.	1	.	.	.	.	.	.	.	1	.	1	.
$21450_2 = \chi_{50}$	.	.	.	.	.	1	1	.	.	.	1	1	.	.	.	1
$24960_1 = \chi_{52}$	.	.	.	1	.	1	.	.	.	.	.	.	.	1	.	1
$29952_1 = \chi_{57}$	.	.	.	.	.	.	.	.	.	.	1	.	.	.	.	1
$29952_2 = \chi_{58}$	.	.	.	.	.	.	.	.	.	.	.	1	.	.	.	1
$34320_1 = \chi_{59}$	.	.	.	.	.	.	.	.	.	.	.	.	1	.	1	.
$34320_2 = \chi_{60}$	.	.	.	.	.	.	.	.	.	.	.	.	1	.	1	.
$36608_1 = \chi_{63}$	.	.	.	.	1	.	.	.	.	1	.	.	1	1	1	.
$69498_1 = \chi_{72}$	.	.	.	.	.	.	.	.	.	.	.	.	.	1	1	1

(**Block 1:**)	φ_{17}	φ_{18}
$1_1 = \chi_1$	.	.
$13_1 = \chi_2$	.	.
$78_1 = \chi_4$	.	.
$286_1 = \chi_6$	.	.
$429_1 = \chi_7$	.	.
$715_1 = \chi_{10}$	.	.
$1287_1 = \chi_{13}$	.	.
$1716_1 = \chi_{15}$	.	.
$4576_1 = \chi_{19}$	.	.
$4752_1 = \chi_{20}$	.	.
$4752_2 = \chi_{21}$	.	.
$6435_1 = \chi_{27}$	.	.
$15444_1 = \chi_{43}$	.	.
$21450_1 = \chi_{49}$	.	.
$21450_2 = \chi_{50}$	.	.
$24960_1 = \chi_{52}$	.	.
$29952_1 = \chi_{57}$	1	.
$29952_2 = \chi_{58}$	.	1
$34320_1 = \chi_{59}$	1	.
$34320_2 = \chi_{60}$	.	1
$36608_1 = \chi_{63}$	.	.
$69498_1 = \chi_{72}$	1	1

$$\begin{aligned}
\varphi_1 &= 1_1 \\
\varphi_2 &= 12_1 \\
\varphi_3 &= 66_1 \\
\varphi_4 &= 220_1 \\
\varphi_5 &= 417_1 \\
\varphi_6 &= 495_1 \\
\varphi_7 &= 792_1 \\
\varphi_8 &= 462_1 \\
\varphi_9 &= 462_2 \\
\varphi_{10} &= 4080_1 \\
\varphi_{11} &= 3498_1 \\
\varphi_{12} &= 3498_2 \\
\varphi_{13} &= 2354_1 \\
\varphi_{14} &= 11078_1 \\
\varphi_{15} &= 18679_1 \\
\varphi_{16} &= 13167_1 \\
\varphi_{17} &= 13287_1 \\
\varphi_{18} &= 13287_2
\end{aligned}$$

Block 2:	φ_{19}	φ_{20}	φ_{21}	φ_{22}	φ_{23}	φ_{24}
$77_1 = \chi_3$	1	.	.	.	.	.
$1001_2 = \chi_{12}$	1	1	.	.	.	.
$4928_1 = \chi_{22}$	.	.	1	.	.	.
$15015_3 = \chi_{42}$	.	.	1	1	.	.
$27027_2 = \chi_{54}$	.	1	.	.	1	.
$48048_2 = \chi_{68}$	.	.	.	1	.	1
$64064_1 = \chi_{71}$	.	.	.	.	1	1

$$\begin{aligned}
\varphi_{19} &= 77_1 \\
\varphi_{20} &= 924_1 \\
\varphi_{21} &= 4928_1 \\
\varphi_{22} &= 10087_1 \\
\varphi_{23} &= 26103_1 \\
\varphi_{24} &= 37961_1
\end{aligned}$$

Block 3:	φ_{25}	φ_{26}	φ_{27}	φ_{28}	φ_{29}	φ_{30}
$273_1 = \chi_5$	1	.	.	.	.	.
$1001_1 = \chi_{11}$	1	1	.	.	.	.
$6006_2 = \chi_{25}$	.	.	1	.	.	.
$6006_3 = \chi_{26}$	.	1	.	1	.	.
$15015_2 = \chi_{41}$	.	.	.	1	1	.
$23296_1 = \chi_{51}$	.	.	1	.	.	1
$27027_1 = \chi_{53}$	.	.	.	.	1	1

$\varphi_{25} = 273_1$
$\varphi_{26} = 728_1$
$\varphi_{27} = 6006_1$
$\varphi_{28} = 5278_1$
$\varphi_{29} = 9737_1$
$\varphi_{30} = 17290_1$

Block 4:	φ_{31}	φ_{32}	φ_{33}	φ_{34}	φ_{35}	φ_{36}
$560_1 = \chi_8$	1	.	.	.	.	.
$2079_1 = \chi_{17}$	.	1	.	.	.	.
$6006_1 = \chi_{24}$	1	.	1	.	.	.
$13650_1 = \chi_{36}$	.	1	.	1	.	.
$15015_1 = \chi_{40}$	.	.	1	.	1	.
$48048_1 = \chi_{67}$	.	.	.	.	1	1
$50050_1 = \chi_{69}$	.	.	.	1	.	1

$\varphi_{31} = 560_1$
$\varphi_{32} = 2079_1$
$\varphi_{33} = 5446_1$
$\varphi_{34} = 11571_1$
$\varphi_{35} = 9569_1$
$\varphi_{36} = 38479_1$

Block 6:	φ_{37}	φ_{38}	φ_{39}	φ_{40}	φ_{41}	φ_{42}
$1365_1 = \chi_{14}$	1	.	.	.	.	.
$2002_1 = \chi_{16}$	.	1	.	.	.	.
$4368_1 = \chi_{18}$	.	1	1	.	.	.
$9009_1 = \chi_{33}$	.	.	1	1	.	.
$12012_1 = \chi_{34}$	1	.	.	.	1	.
$12012_2 = \chi_{35}$	.	.	.	1	.	1
$16016_1 = \chi_{44}$	.	.	.	.	1	1

$\varphi_{37} = 1365_1$
$\varphi_{38} = 2002_1$
$\varphi_{39} = 2366_1$
$\varphi_{40} = 6643_1$
$\varphi_{41} = 10647_1$
$\varphi_{42} = 5369_1$