

$A_{14} \pmod{7}$

	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}	
$1_1 = \chi_1$.	.	
$13_1 = \chi_2$.	.	$\varphi_1 = 1_1$
$78_1 = \chi_4$.	.	$\varphi_2 = 12_1$
$286_1 = \chi_6$.	.	$\varphi_3 = 66_1$
$429_1 = \chi_7$.	.	$\varphi_4 = 220_1$
$715_1 = \chi_{10}$.	.	$\varphi_5 = 417_1$
$1287_1 = \chi_{13}$.	.	$\varphi_6 = 495_1$
$1716_1 = \chi_{15}$.	.	$\varphi_7 = 792_1$
$4576_1 = \chi_{19}$.	.	$\varphi_8 = 462_1$
$4752_1 = \chi_{20}$.	.	$\varphi_9 = 462_2$
$4752_2 = \chi_{21}$.	.	$\varphi_{10} = 4080_1$
$6435_1 = \chi_{27}$.	.	$\varphi_{11} = 3498_1$
$15444_1 = \chi_{43}$.	.	$\varphi_{12} = 3498_2$
$21450_1 = \chi_{49}$.	.	$\varphi_{13} = 2354_1$
$21450_2 = \chi_{50}$.	.	$\varphi_{14} = 11078_1$
$24960_1 = \chi_{52}$.	.	$\varphi_{15} = 18679_1$
$29952_1 = \chi_{57}$	1	.	$\varphi_{16} = 13167_1$
$29952_2 = \chi_{58}$.	1	$\varphi_{17} = 13287_1$
$34320_1 = \chi_{59}$	1	.	$\varphi_{18} = 13287_2$
$34320_2 = \chi_{60}$.	1	
$36608_1 = \chi_{63}$.	.	
$69498_1 = \chi_{72}$	1	1	

Block 2:	φ_{19}	φ_{20}	φ_{21}	φ_{22}	φ_{23}	φ_{24}	
$77_1 = \chi_3$	1	.	.	.	.	.	$\varphi_{19} = 77_1$
$1001_2 = \chi_{12}$	1	1	.	.	.	.	$\varphi_{20} = 924_1$
$4928_1 = \chi_{22}$	.	.	1	.	.	.	$\varphi_{21} = 4928_1$
$15015_3 = \chi_{42}$	.	.	1	1	.	.	$\varphi_{22} = 10087_1$
$27027_2 = \chi_{54}$	.	1	.	.	1	.	$\varphi_{23} = 26103_1$
$48048_2 = \chi_{68}$	.	.	.	1	.	1	$\varphi_{24} = 37961_1$
$64064_1 = \chi_{71}$	.	.	.	.	1	1	

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

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

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

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

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

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