

$A_{14.2} \pmod{7}$

	blocks	defect	matrix
$G :$	1	2	35×27
	2	1	7×6
	3	1	7×6
	4	1	7×6
	5	1	7×6
	6	1	7×6
	7	1	7×6
	8	0	$637_1 = \chi_{9,0}, \varphi_{43,0}$
	9	0	$637_2 = \chi_{9,1}, \varphi_{43,1}$
	10	1	7×6
	11	1	7×6
	12	0	$5733_1 = \chi_{23,0}, \varphi_{44,0}$
	13	0	$5733_2 = \chi_{23,1}, \varphi_{44,1}$
	14	0	$7007_1 = \chi_{28,0}, \varphi_{45,0}$
	15	0	$7007_2 = \chi_{28,1}, \varphi_{45,1}$
	16	0	$7007_3 = \chi_{29,0}, \varphi_{46,0}$
	17	0	$7007_4 = \chi_{29,1}, \varphi_{46,1}$
	18	0	$7007_5 = \chi_{30,0}, \varphi_{47,0}$
	19	0	$7007_6 = \chi_{30,1}, \varphi_{47,1}$
	20	0	$7644_1 = \chi_{31,0}, \varphi_{48,0}$
	21	0	$7644_2 = \chi_{31,1}, \varphi_{48,1}$
	22	0	$8085_1 = \chi_{32,0}, \varphi_{49,0}$
	23	0	$8085_2 = \chi_{32,1}, \varphi_{49,1}$
	24	0	$14014_1 = \chi_{37,0}, \varphi_{50,0}$
	25	0	$14014_2 = \chi_{37,1}, \varphi_{50,1}$
	26	0	$14014_3 = \chi_{38,0}, \varphi_{51,0}$
	27	0	$14014_4 = \chi_{38,1}, \varphi_{51,1}$

	blocks	defect	matrix
	28	0	$14014_5 = \chi_{39,0}, \varphi_{52,0}$
	29	0	$14014_6 = \chi_{39,1}, \varphi_{52,1}$
	30	0	$20384_1 = \chi_{45,0}, \varphi_{53,0}$
	31	0	$20384_2 = \chi_{45,1}, \varphi_{53,1}$
	32	0	$21021_1 = \chi_{46,0}, \varphi_{54,0}$
	33	0	$21021_2 = \chi_{46,1}, \varphi_{54,1}$
	34	0	$21021_3 = \chi_{47,0}, \varphi_{55,0}$
	35	0	$21021_4 = \chi_{47,1}, \varphi_{55,1}$
	36	0	$21021_5 = \chi_{48,0}, \varphi_{56,0}$
	37	0	$21021_6 = \chi_{48,1}, \varphi_{56,1}$
	38	0	$28028_1 = \chi_{55,0}, \varphi_{57,0}$
	39	0	$28028_2 = \chi_{55,1}, \varphi_{57,1}$
	40	0	$28665_1 = \chi_{56,0}, \varphi_{58,0}$
	41	0	$28665_2 = \chi_{56,1}, \varphi_{58,1}$
	42	0	$35035_1 = \chi_{61,0}, \varphi_{59,0}$
	43	0	$35035_2 = \chi_{61,1}, \varphi_{59,1}$
	44	0	$35035_3 = \chi_{62,0}, \varphi_{60,0}$
	45	0	$35035_4 = \chi_{62,1}, \varphi_{60,1}$
	46	0	$42042_1 = \chi_{64,0}, \varphi_{61,0}$
	47	0	$42042_2 = \chi_{64,1}, \varphi_{61,1}$
	48	0	$42042_3 = \chi_{65,0}, \varphi_{62,0}$
	49	0	$42042_4 = \chi_{65,1}, \varphi_{62,1}$
	50	0	$47775_1 = \chi_{66,0}, \varphi_{63,0}$
	51	0	$47775_2 = \chi_{66,1}, \varphi_{63,1}$
	52	0	$63063_1 = \chi_{70,0}, \varphi_{64,0}$
	53	0	$63063_2 = \chi_{70,1}, \varphi_{64,1}$

(Block 1:)	$\varphi_{7,1}$	φ_{8+}	$\varphi_{13,0}$	$\varphi_{13,1}$	$\varphi_{10,0}$	$\varphi_{10,1}$	φ_{11+}	$\varphi_{14,0}$	$\varphi_{14,1}$	$\varphi_{16,0}$	$\varphi_{16,1}$
$1_1 = \chi_{1,0}$
$1_2 = \chi_{1,1}$
$13_1 = \chi_{2,0}$
$13_2 = \chi_{2,1}$
$78_1 = \chi_{4,0}$
$78_2 = \chi_{4,1}$
$286_1 = \chi_{6,0}$
$286_2 = \chi_{6,1}$
$429_1 = \chi_{7,0}$
$429_2 = \chi_{7,1}$
$715_1 = \chi_{10,0}$
$715_2 = \chi_{10,1}$
$1287_1 = \chi_{13,0}$
$1287_2 = \chi_{13,1}$	1	.	.	.	.	.	.	.	.	.	.
$1716_1 = \chi_{15,0}$.	1	.	.	.	.	.	.	.	.	.
$1716_2 = \chi_{15,1}$	1	1	.	.	.	.	.	.	.	.	.
$4576_1 = \chi_{19,0}$	1	.	.	.	.	.	.
$4576_2 = \chi_{19,1}$	1	.	.	.	.	.
$6435_1 = \chi_{27,0}$.	.	1	.	1	.	.	.	.	.	.
$6435_2 = \chi_{27,1}$.	.	.	1	.	1	.	.	.	.	.
$9504_1 = \chi_{20+}$	1	1	.	.	.	.	1	.	.	.	.
$15444_1 = \chi_{43,0}$	1	.	.	1	.	.	.
$15444_2 = \chi_{43,1}$	1	.	.	1	.	.
$21450_1 = \chi_{49,0}$.	.	.	1	.	.	.	.	.	.	.
$21450_2 = \chi_{49,1}$.	.	1	.	.	.	.	.	.	.	.
$21450_3 = \chi_{50,0}$	1	.	.	1	.
$21450_4 = \chi_{50,1}$	1	.	.	.	.	.	1	.	.	.	1
$24960_1 = \chi_{52,0}$	1	.	1	.
$24960_2 = \chi_{52,1}$	1	.	1
$36608_1 = \chi_{63,0}$.	.	1	.	1	.	.	1	.	.	.
$36608_2 = \chi_{63,1}$.	.	.	1	.	1	.	.	1	.	.
$59904_1 = \chi_{57+}$	1	.	.	1	1
$68640_1 = \chi_{59+}$.	.	1	1	.	.	.	.	.	.	.
$69498_1 = \chi_{72,0}$	1	.	1	.
$69498_2 = \chi_{72,1}$	1	.	1

(Block 1:)	$\varphi_{15,0}$	$\varphi_{15,1}$	φ_{17+}	
$1_1 = \chi_{1,0}$.	.	.	
$1_2 = \chi_{1,1}$.	.	.	
$13_1 = \chi_{2,0}$.	.	.	
$13_2 = \chi_{2,1}$.	.	.	$\varphi_{1,0} = 1_1$
$78_1 = \chi_{4,0}$.	.	.	$\varphi_{1,1} = 1_2$
$78_2 = \chi_{4,1}$.	.	.	$\varphi_{2,0} = 12_1$
$286_1 = \chi_{6,0}$.	.	.	$\varphi_{2,1} = 12_2$
$286_2 = \chi_{6,1}$.	.	.	$\varphi_{3,0} = 66_1$
$429_1 = \chi_{7,0}$.	.	.	$\varphi_{3,1} = 66_2$
$429_2 = \chi_{7,1}$.	.	.	$\varphi_{4,0} = 220_1$
$715_1 = \chi_{10,0}$.	.	.	$\varphi_{4,1} = 220_2$
$715_2 = \chi_{10,1}$.	.	.	$\varphi_{5,0} = 417_1$
$1287_1 = \chi_{13,0}$.	.	.	$\varphi_{5,1} = 417_2$
$1287_2 = \chi_{13,1}$.	.	.	$\varphi_{6,0} = 495_1$
$1716_1 = \chi_{15,0}$.	.	.	$\varphi_{6,1} = 495_2$
$1716_2 = \chi_{15,1}$.	.	.	$\varphi_{7,0} = 792_1$
$4576_1 = \chi_{19,0}$.	.	.	$\varphi_{7,1} = 792_2$
$4576_2 = \chi_{19,1}$.	.	.	$\varphi_{8+} = 924_2$
$6435_1 = \chi_{27,0}$.	.	.	$\varphi_{13,0} = 2354_1$
$6435_2 = \chi_{27,1}$.	.	.	$\varphi_{13,1} = 2354_2$
$9504_1 = \chi_{20+}$.	.	.	$\varphi_{10,0} = 4080_1$
$15444_1 = \chi_{43,0}$.	.	.	$\varphi_{10,1} = 4080_2$
$15444_2 = \chi_{43,1}$.	.	.	$\varphi_{11+} = 6996_1$
$21450_1 = \chi_{49,0}$	1	.	.	$\varphi_{14,0} = 11078_1$
$21450_2 = \chi_{49,1}$.	1	.	$\varphi_{14,1} = 11078_2$
$21450_3 = \chi_{50,0}$.	.	.	$\varphi_{16,0} = 13167_1$
$21450_4 = \chi_{50,1}$.	.	.	$\varphi_{16,1} = 13167_2$
$24960_1 = \chi_{52,0}$.	.	.	$\varphi_{15,0} = 18679_1$
$24960_2 = \chi_{52,1}$.	.	.	$\varphi_{15,1} = 18679_2$
$36608_1 = \chi_{63,0}$	1	.	.	$\varphi_{17+} = 26574_1$
$36608_2 = \chi_{63,1}$.	1	.	
$59904_1 = \chi_{57+}$.	.	1	
$68640_1 = \chi_{59+}$	1	1	1	
$69498_1 = \chi_{72,0}$	1	.	1	
$69498_2 = \chi_{72,1}$.	1	1	

Block 2:	$\varphi_{19,0}$	$\varphi_{20,0}$	$\varphi_{21,1}$	$\varphi_{22,1}$	$\varphi_{23,0}$	$\varphi_{24,1}$
$77_1 = \chi_{3,0}$	1	.	.	.	.	.
$1001_3 = \chi_{12,0}$	1	1	.	.	.	.
$4928_2 = \chi_{22,1}$	.	.	1	.	.	.
$15015_6 = \chi_{42,1}$	.	.	1	1	.	.
$27027_3 = \chi_{54,0}$	.	1	.	.	1	.
$48048_4 = \chi_{68,1}$	.	.	.	1	.	1
$64064_1 = \chi_{71,0}$	.	.	.	.	1	1

$$\begin{aligned} \varphi_{19,0} &= 77_1 \\ \varphi_{20,0} &= 924_1 \\ \varphi_{21,1} &= 4928_2 \\ \varphi_{22,1} &= 10087_2 \\ \varphi_{23,0} &= 26103_1 \\ \varphi_{24,1} &= 37961_2 \end{aligned}$$

Block 3:	$\varphi_{19,1}$	$\varphi_{20,1}$	$\varphi_{21,0}$	$\varphi_{22,0}$	$\varphi_{23,1}$	$\varphi_{24,0}$
$77_2 = \chi_{3,1}$	1	.	.	.	.	.
$1001_4 = \chi_{12,1}$	1	1	.	.	.	.
$4928_1 = \chi_{22,0}$	.	.	1	.	.	.
$15015_5 = \chi_{42,0}$	.	.	1	1	.	.
$27027_4 = \chi_{54,1}$	.	1	.	.	1	.
$48048_3 = \chi_{68,0}$	.	.	.	1	.	1
$64064_2 = \chi_{71,1}$	.	.	.	.	1	1

$$\begin{aligned} \varphi_{19,1} &= 77_2 \\ \varphi_{20,1} &= 924_3 \\ \varphi_{21,0} &= 4928_1 \\ \varphi_{22,0} &= 10087_1 \\ \varphi_{23,1} &= 26103_2 \\ \varphi_{24,0} &= 37961_1 \end{aligned}$$

Block 4:	$\varphi_{25,0}$	$\varphi_{26,0}$	$\varphi_{28,0}$	$\varphi_{27,1}$	$\varphi_{29,1}$	$\varphi_{30,1}$
$273_1 = \chi_{5,0}$	1	.	.	.	.	.
$1001_1 = \chi_{11,0}$	1	1	.	.	.	.
$6006_4 = \chi_{25,1}$	.	.	.	1	.	.
$6006_5 = \chi_{26,0}$	.	1	1	.	.	.
$15015_4 = \chi_{41,1}$	.	.	1	.	1	.
$23296_2 = \chi_{51,1}$	.	.	.	1	.	1
$27027_2 = \chi_{53,1}$	.	.	.	.	1	1

$$\begin{aligned} \varphi_{25,0} &= 273_1 \\ \varphi_{26,0} &= 728_1 \\ \varphi_{28,0} &= 5278_1 \\ \varphi_{27,1} &= 6006_2 \\ \varphi_{29,1} &= 9737_2 \\ \varphi_{30,1} &= 17290_2 \end{aligned}$$

Block 5:	$\varphi_{25,1}$	$\varphi_{26,1}$	$\varphi_{28,1}$	$\varphi_{27,0}$	$\varphi_{29,0}$	$\varphi_{30,0}$
$273_2 = \chi_{5,1}$	1	.	.	.	.	.
$1001_2 = \chi_{11,1}$	1	1	.	.	.	.
$6006_3 = \chi_{25,0}$	.	.	.	1	.	.
$6006_6 = \chi_{26,1}$	.	1	1	.	.	.
$15015_3 = \chi_{41,0}$	.	.	1	.	1	.
$23296_1 = \chi_{51,0}$	.	.	.	1	.	1
$27027_1 = \chi_{53,0}$	.	.	.	.	1	1

$$\begin{aligned} \varphi_{25,1} &= 273_2 \\ \varphi_{26,1} &= 728_2 \\ \varphi_{28,1} &= 5278_2 \\ \varphi_{27,0} &= 6006_1 \\ \varphi_{29,0} &= 9737_1 \\ \varphi_{30,0} &= 17290_1 \end{aligned}$$

Block 6:	$\varphi_{31,0}$	$\varphi_{32,1}$	$\varphi_{33,0}$	$\varphi_{35,0}$	$\varphi_{34,1}$	$\varphi_{36,1}$
$560_1 = \chi_{8,0}$	1	.	.	.	.	.
$2079_2 = \chi_{17,1}$	.	1	.	.	.	.
$6006_1 = \chi_{24,0}$	1	.	1	.	.	.
$13650_2 = \chi_{36,1}$	.	1	.	.	1	.
$15015_1 = \chi_{40,0}$	.	.	1	1	.	.
$48048_2 = \chi_{67,1}$	.	.	.	1	.	1
$50050_2 = \chi_{69,1}$	.	.	.	.	1	1

$\varphi_{31,0} = 560_1$
$\varphi_{32,1} = 2079_2$
$\varphi_{33,0} = 5446_1$
$\varphi_{35,0} = 9569_1$
$\varphi_{34,1} = 11571_2$
$\varphi_{36,1} = 38479_2$

Block 7:	$\varphi_{31,1}$	$\varphi_{32,0}$	$\varphi_{33,1}$	$\varphi_{35,1}$	$\varphi_{34,0}$	$\varphi_{36,0}$
$560_2 = \chi_{8,1}$	1	.	.	.	.	.
$2079_1 = \chi_{17,0}$	.	1	.	.	.	.
$6006_2 = \chi_{24,1}$	1	.	1	.	.	.
$13650_1 = \chi_{36,0}$	.	1	.	.	1	.
$15015_2 = \chi_{40,1}$	.	.	1	1	.	.
$48048_1 = \chi_{67,0}$	.	.	.	1	.	1
$50050_1 = \chi_{69,0}$	.	.	.	.	1	1

$\varphi_{31,1} = 560_2$
$\varphi_{32,0} = 2079_1$
$\varphi_{33,1} = 5446_2$
$\varphi_{35,1} = 9569_2$
$\varphi_{34,0} = 11571_1$
$\varphi_{36,0} = 38479_1$

Block 10:	$\varphi_{37,0}$	$\varphi_{38,1}$	$\varphi_{39,1}$	$\varphi_{42,0}$	$\varphi_{40,1}$	$\varphi_{41,0}$
$1365_1 = \chi_{14,0}$	1	.	.	.	.	.
$2002_2 = \chi_{16,1}$	.	1	.	.	.	.
$4368_2 = \chi_{18,1}$	.	1	1	.	.	.
$9009_2 = \chi_{33,1}$	.	.	1	.	1	.
$12012_1 = \chi_{34,0}$	1	.	.	.	.	1
$12012_4 = \chi_{35,1}$	.	.	.	1	1	.
$16016_1 = \chi_{44,0}$	.	.	.	1	.	1

$\varphi_{37,0} = 1365_1$
$\varphi_{38,1} = 2002_2$
$\varphi_{39,1} = 2366_2$
$\varphi_{42,0} = 5369_1$
$\varphi_{40,1} = 6643_2$
$\varphi_{41,0} = 10647_1$

Block 11:	$\varphi_{37,1}$	$\varphi_{38,0}$	$\varphi_{39,0}$	$\varphi_{42,1}$	$\varphi_{40,0}$	$\varphi_{41,1}$
$1365_2 = \chi_{14,1}$	1	.	.	.	.	.
$2002_1 = \chi_{16,0}$	.	1	.	.	.	.
$4368_1 = \chi_{18,0}$	.	1	1	.	.	.
$9009_1 = \chi_{33,0}$	.	.	1	.	1	.
$12012_2 = \chi_{34,1}$	1	.	.	.	.	1
$12012_3 = \chi_{35,0}$	.	.	.	1	1	.
$16016_2 = \chi_{44,1}$	.	.	.	1	.	1

$\varphi_{37,1} = 1365_2$
$\varphi_{38,0} = 2002_1$
$\varphi_{39,0} = 2366_1$
$\varphi_{42,1} = 5369_2$
$\varphi_{40,0} = 6643_1$
$\varphi_{41,1} = 10647_2$