$A_{14}.2 \pmod{7}$

	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	$14014_4 = \chi_{38,1}, \varphi_{51,1}$

 T		
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	$63063_2 = \chi_{70,1}, \varphi_{64,1}$
 1		I

Block 1:	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{2,0}$	$\varphi_{2,1}$	$\varphi_{3,0}$	$\varphi_{3,1}$	$\varphi_{4,0}$	$\varphi_{4,1}$	$\varphi_{5,0}$	$\varphi_{5,1}$	$\varphi_{6,0}$	$\varphi_{6,1}$	$\varphi_{7,0}$
$1_1 = \chi_{1,0}$	1												
$1_2 = \chi_{1,1}$		1			•								•
$13_1 = \chi_{2,0}$	1		1		•								
$13_2 = \chi_{2,1}$		1		1									
$78_1 = \chi_{4,0}$			1		1			•					
$78_2 = \chi_{4,1}$				1		1							•
$286_1 = \chi_{6,0}$					1		1						
$286_2 = \chi_{6,1}$						1		1					
$429_1 = \chi_{7,0}$			1						1				
$429_2 = \chi_{7,1}$				1						1			•
$715_1 = \chi_{10,0}$		•					1				1		•
$715_2 = \chi_{10,1}$								1				1	•
$1287_1 = \chi_{13,0}$											1		1
$1287_2 = \chi_{13,1}$												1	•
$1716_1 = \chi_{15,0}$													1
$1716_2 = \chi_{15,1}$													
$4576_1 = \chi_{19,0}$	1		1		1				1				
$4576_2 = \chi_{19,1}$		1		1		1		•		1			
$6435_1 = \chi_{27,0}$	1							•					
$6435_2 = \chi_{27,1}$		1						•					
$9504_1 = \chi_{20+}$					•								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	
$24960_1 = \chi_{52,0}$							1	•			1		
$24960_2 = \chi_{52,1}$		•						1				1	
$36608_1 = \chi_{63,0}$									1				
$36608_2 = \chi_{63,1}$										1			
$59904_1 = \chi_{57+}$		•											
$68640_1 = \chi_{59+}$		•											
$69498_1 = \chi_{72,0}$		•											
$69498_2 = \chi_{72,1}$			٠	٠			٠			•	•	•	

(Block 1:)	$\varphi_{7,1}$	φ_{8+}	$\varphi_{13,0}$	$\varphi_{13,1}$	$\varphi_{10,0}$	$\varphi_{10,1}$	φ_{11+}	$\varphi_{14,0}$	$\varphi_{14,1}$	$\varphi_{16,0}$	$\varphi_{16,1}$
$1_1 = \chi_{1,0}$											
$1_2 = \chi_{1,1}$								•			
$13_1 = \chi_{2,0}$											
$13_2 = \chi_{2,1}$								•		•	•
$78_1 = \chi_{4,0}$								•		•	•
$78_2 = \chi_{4,1}$			٠	•		٠	•	•	•	•	
$286_1 = \chi_{6,0}$			٠	•		٠	•	•	•	•	
$286_2 = \chi_{6,1}$			٠	•		•	•	•	•	•	
$429_1 = \chi_{7,0}$		•		•				•	•	•	
$429_2 = \chi_{7,1}$				•				•		•	
$715_1 = \chi_{10,0}$		•					•	•		•	•
$715_2 = \chi_{10,1}$		•					•	•		•	•
$1287_1 = \chi_{13,0}$			•				•	•		•	•
$1287_2 = \chi_{13,1}$	1		•	•		•	•	•	•	•	•
$1716_1 = \chi_{15,0}$		1	٠	•	•	٠	•	•	•	•	•
$1716_2 = \chi_{15,1}$	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 1	•	•	1	1
$21450_4 = \chi_{50,1}$	1	•	•	•	•	•	1	. 1	•	. 1	1
$24960_1 = \chi_{52,0}$	•	•	•	•	•	•	•	1	1	1	1
$24960_2 = \chi_{52,1}$		•	1	•	1	•	•	1	1	•	1
$36608_1 = \chi_{63,0}$ $36608_2 = \chi_{63,1}$		•	1	1	1	1	•	1	1	•	•
$50008_2 = \chi_{63,1}$ $59904_1 = \chi_{57+}$		•	•	1	•	1	1	•	1	1	1
$59904_1 = \chi_{57+}$ $68640_1 = \chi_{59+}$		•	1	1	•	•	1	•	•	1	1
$68040_1 \equiv \chi_{59+}$ $69498_1 = \chi_{72,0}$		•	1	1	•	•	•	1	•	1	
$69498_1 = \chi_{72,0}$ $69498_2 = \chi_{72,1}$		•	•	•	•	•	•	1	1	1	1
$034302 - \chi 72,1$	•	•	•	•	•	•	•	•	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
$78_1 = \chi_{4,0}$				$\varphi_{1,0}$ $\varphi_{1,1}$	=	1_2
$78_2 = \chi_{4,1}$				$\varphi_{2,0}$	=	12_{1}
$286_1 = \chi_{6,0}$				$\varphi_{2,1}$	=	12_{2}^{1}
$286_2 = \chi_{6,1}$				$\varphi_{3,0}$	=	66_{1}^{2}
$429_1 = \chi_{7,0}$				$\varphi_{3,1}$	=	66_{2}^{-}
$429_2 = \chi_{7,1}$				$\varphi_{4,0}$	=	220_{1}
$715_1 = \chi_{10,0}$		•	•	$\varphi_{4,1}$	=	220_{2}
$715_2 = \chi_{10,1}$				$arphi_{5,0}$	=	417_{1}
$1287_1 = \chi_{13,0}$				$arphi_{5,1}$	=	417_{2}
$1287_2 = \chi_{13,1}$				$arphi_{6,0}$	=	495_{1}
$1716_1 = \chi_{15,0}$		•	•	$\varphi_{6,1}$	=	495_{2}
$1716_2 = \chi_{15,1}$		•	•	$\varphi_{7,0}$	=	792_{1}
$4576_1 = \chi_{19,0}$		•	•	$arphi_{7,1}$	=	792_{2}
$4576_2 = \chi_{19,1}$				$arphi_{8+}$	=	924_{2}
$6435_1 = \chi_{27,0}$		•	•	$\varphi_{13,0}$	=	2354_{1}
$6435_2 = \chi_{27,1}$		•	•	$arphi_{13,1}$	=	2354_{2}
$9504_1 = \chi_{20+}$		•	•	$arphi_{10,0}$	=	4080_1
$15444_1 = \chi_{43,0}$		•	•	$arphi_{10,1}$	=	4080_2
$15444_2 = \chi_{43,1}$		•	•	φ_{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
$24960_2 = \chi_{52,1}$. 1	•	•	$arphi_{15,1}$	=	18679_2
$36608_1 = \chi_{63,0}$	1	. 1	•	φ_{17+}	=	26574_1
$36608_2 = \chi_{63,1}$	•	1	1			
$59904_1 = \chi_{57+}$	1	1	1			
$68640_1 = \chi_{59+}$ $69498_1 = \chi_{72,0}$	1	1	1			
$69490_1 - \chi_{72,0}$ $69498_2 - \chi_{-2,2}$	1	1	1			
$69498_2 = \chi_{72,1}$		1	1			

Block 2:	$\varphi_{19,0}$	$\varphi_{20,0}$	$\varphi_{21,1}$	$arphi_{22,1}$	$\varphi_{23,0}$	$\varphi_{24,1}$			
$77_1 = \chi_{3,0}$ $1001_3 = \chi_{12,0}$ $4928_2 = \chi_{22,1}$ $15015_6 = \chi_{42,1}$ $27027_3 = \chi_{54,0}$ $48048_4 = \chi_{68,1}$ $64064_1 = \chi_{71,0}$	1 1	1 1	1 1	1			$arphi_{19,0} \ arphi_{20,0} \ arphi_{21,1} \ arphi_{22,1} \ arphi_{23,0} \ arphi_{24,1}$	= = = =	77_1 924_1 4928_2 10087_2 26103_1 37961_2
Block 3:	$\varphi_{19,1}$	$arphi_{20,1}$	$\varphi_{21,0}$	$\varphi_{22,0}$	$\varphi_{23,1}$	$\varphi_{24,0}$			
$77_2 = \chi_{3,1}$ $1001_4 = \chi_{12,1}$ $4928_1 = \chi_{22,0}$ $15015_5 = \chi_{42,0}$ $27027_4 = \chi_{54,1}$ $48048_3 = \chi_{68,0}$ $64064_2 = \chi_{71,1}$	1 1	1 1	1 1	1 1	1		$arphi_{19,1} \ arphi_{20,1} \ arphi_{21,0} \ arphi_{22,0} \ arphi_{23,1} \ arphi_{24,0}$	= = = =	77_2 924_3 4928_1 10087_1 26103_2 37961_1
Block 4: $273_1 = \chi_{5,0}$ $1001_1 = \chi_{11,0}$ $6006_4 = \chi_{25,1}$ $6006_5 = \chi_{26,0}$	$\varphi_{25,0}$ $\begin{array}{c} 1 \\ 1 \\ \vdots \\ \vdots \\ \end{array}$	$arphi_{26,0}$ $\begin{array}{c} \cdot \\ 1 \\ \cdot \\ 1 \end{array}$	$arphi_{28,0}$	$arphi_{27,1}$	$arphi_{29,1}$	<i>φ</i> 30,1	$arphi_{25,0}$ $arphi_{26,0}$ $arphi_{28,0}$ $arphi_{27,1}$ $arphi_{29,1}$	= = = =	2731 7281 52781 60062 97372
$15015_4 = \chi_{41,1}$ $23296_2 = \chi_{51,1}$ $27027_2 = \chi_{53,1}$		•		1	1 1	1 1	$\varphi_{30,1}$	=	17290 ₂
Block 5:	$\varphi_{25,1}$	$\varphi_{26,1}$	$\varphi_{28,1}$	$\varphi_{27,0}$	$\varphi_{29,0}$	$\varphi_{30,0}$			
$273_2 = \chi_{5,1}$ $1001_2 = \chi_{11,1}$ $6006_3 = \chi_{25,0}$ $6006_6 = \chi_{26,1}$ $15015_3 = \chi_{41,0}$ $23296_1 = \chi_{51,0}$ $27027_1 = \chi_{53,0}$	1 1	1 1	1 1	1 1	1		$arphi_{25,1}$ $arphi_{26,1}$ $arphi_{28,1}$ $arphi_{27,0}$ $arphi_{29,0}$ $arphi_{30,0}$	= = = =	$273_2 728_2 5278_2 6006_1 9737_1 17290_1$

							-		
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						$arphi_{31,0}$	=	560_1
$2079_2 = \chi_{17,1}$		1				•	$arphi_{32,1}$	=	2079_2
$6006_1 = \chi_{24,0}$	1		1				$arphi_{33,0}$	=	5446_1
$13650_2 = \chi_{36,1}$		1			1	•	$arphi_{35,0}$	=	9569_1
$15015_1 = \chi_{40,0}$			1	1		•	$\varphi_{34,1}$	=	11571_2
$48048_2 = \chi_{67,1}$				1		1	$\varphi_{36,1}$	=	38479_2
$50050_2 = \chi_{69,1}$					1	1			
	ı						-		
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						$\varphi_{31,1}$	=	560_{2}
$2079_1 = \chi_{17,0}$		1					$arphi_{32,0}$	=	2079_{1}
$6006_2 = \chi_{24,1}$	1		1				$\varphi_{33,1}$	=	5446_2
$13650_1 = \chi_{36,0}$		1			1		$\varphi_{35,1}$	=	9569_{2}
$15015_2 = \chi_{40,1}$			1	1			$\varphi_{34,0}$	=	11571_{1}
$48048_1 = \chi_{67,0}$				1		1	$\varphi_{36,0}$	=	38479_1
$50050_1 = \chi_{69,0}$					1	1			
Block 10:	$\varphi_{37,0}$	$\varphi_{38,1}$	$\varphi_{39,1}$	$\varphi_{42,0}$	$\varphi_{40,1}$	$\varphi_{41,0}$	-		
-			$\varphi_{39,1}$	$\varphi_{42,0}$	$\varphi_{40,1}$	$\varphi_{41,0}$. $arphi_{37.0}$	=	1365_{1}
$\phantom{00000000000000000000000000000000000$	1		$\varphi_{39,1}$	$\varphi_{42,0}$.	$\varphi_{40,1}$	$arphi_{41,0}$.	arphi37,0 $arphi$ 38,1	= =	1365_1 2002_2
$ \begin{array}{c} 1365_1 = \chi_{14,0} \\ 2002_2 = \chi_{16,1} \end{array} $. 1		φ42,0 ·	$\varphi_{40,1}$	φ41,0 ·	$arphi_{38,1}$		
$1365_1 = \chi_{14,0}$ $2002_2 = \chi_{16,1}$ $4368_2 = \chi_{18,1}$	1		1	φ _{42,0}	•	φ _{41,0}	,	=	2002_{2}
$1365_1 = \chi_{14,0}$ $2002_2 = \chi_{16,1}$ $4368_2 = \chi_{18,1}$ $9009_2 = \chi_{33,1}$	1	. 1		φ42,0	φ _{40,1} 1	•	$arphi_{38,1} \ arphi_{39,1}$	=	$2002_2 \\ 2366_2$
$1365_1 = \chi_{14,0}$ $2002_2 = \chi_{16,1}$ $4368_2 = \chi_{18,1}$ $9009_2 = \chi_{33,1}$ $12012_1 = \chi_{34,0}$	1	. 1	1			1	$arphi_{38,1}$ $arphi_{39,1}$ $arphi_{42,0}$	= = =	$2002_2 \\ 2366_2 \\ 5369_1$
$1365_1 = \chi_{14,0}$ $2002_2 = \chi_{16,1}$ $4368_2 = \chi_{18,1}$ $9009_2 = \chi_{33,1}$ $12012_1 = \chi_{34,0}$ $12012_4 = \chi_{35,1}$	1	. 1	1	1	1		$ \varphi_{38,1} \\ \varphi_{39,1} \\ \varphi_{42,0} \\ \varphi_{40,1} $	= = =	$2002_2 \\ 2366_2 \\ 5369_1 \\ 6643_2$
$1365_1 = \chi_{14,0}$ $2002_2 = \chi_{16,1}$ $4368_2 = \chi_{18,1}$ $9009_2 = \chi_{33,1}$ $12012_1 = \chi_{34,0}$	1	. 1	1			1	$ \varphi_{38,1} \\ \varphi_{39,1} \\ \varphi_{42,0} \\ \varphi_{40,1} $	= = =	$2002_2 \\ 2366_2 \\ 5369_1 \\ 6643_2$
$1365_1 = \chi_{14,0}$ $2002_2 = \chi_{16,1}$ $4368_2 = \chi_{18,1}$ $9009_2 = \chi_{33,1}$ $12012_1 = \chi_{34,0}$ $12012_4 = \chi_{35,1}$	1	. 1	1	1	1		$ \varphi_{38,1} \\ \varphi_{39,1} \\ \varphi_{42,0} \\ \varphi_{40,1} $	= = =	2002_2 2366_2 5369_1 6643_2 10647_1
$1365_1 = \chi_{14,0}$ $2002_2 = \chi_{16,1}$ $4368_2 = \chi_{18,1}$ $9009_2 = \chi_{33,1}$ $12012_1 = \chi_{34,0}$ $12012_4 = \chi_{35,1}$ $16016_1 = \chi_{44,0}$ Block 11:	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\varphi_{38,0}$	1 1				$ \varphi_{38,1} \\ \varphi_{39,1} \\ \varphi_{42,0} \\ \varphi_{40,1} $	= = =	2002_{2} 2366_{2} 5369_{1} 6643_{2} 10647_{1} 1365_{2}
$1365_1 = \chi_{14,0}$ $2002_2 = \chi_{16,1}$ $4368_2 = \chi_{18,1}$ $9009_2 = \chi_{33,1}$ $12012_1 = \chi_{34,0}$ $12012_4 = \chi_{35,1}$ $16016_1 = \chi_{44,0}$ Block 11: $1365_2 = \chi_{14,1}$	1	. 1 1	1 1				$ \varphi_{38,1} $ $ \varphi_{39,1} $ $ \varphi_{42,0} $ $ \varphi_{40,1} $ $ \varphi_{41,0} $	= = =	2002_{2} 2366_{2} 5369_{1} 6643_{2} 10647_{1} 1365_{2} 2002_{1}
$1365_1 = \chi_{14,0}$ $2002_2 = \chi_{16,1}$ $4368_2 = \chi_{18,1}$ $9009_2 = \chi_{33,1}$ $12012_1 = \chi_{34,0}$ $12012_4 = \chi_{35,1}$ $16016_1 = \chi_{44,0}$ $\mathbf{Block 11:}$ $1365_2 = \chi_{14,1}$ $2002_1 = \chi_{16,0}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\varphi_{38,0}$	1 1				$ \varphi_{38,1} $ $ \varphi_{39,1} $ $ \varphi_{42,0} $ $ \varphi_{40,1} $ $ \varphi_{41,0} $	= = =	2002_{2} 2366_{2} 5369_{1} 6643_{2} 10647_{1} 1365_{2} 2002_{1} 2366_{1}
$1365_1 = \chi_{14,0}$ $2002_2 = \chi_{16,1}$ $4368_2 = \chi_{18,1}$ $9009_2 = \chi_{33,1}$ $12012_1 = \chi_{34,0}$ $12012_4 = \chi_{35,1}$ $16016_1 = \chi_{44,0}$ $Block 11:$ $1365_2 = \chi_{14,1}$ $2002_1 = \chi_{16,0}$ $4368_1 = \chi_{18,0}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\varphi_{38,0}$	·				$ \varphi_{38,1} $ $ \varphi_{39,1} $ $ \varphi_{42,0} $ $ \varphi_{40,1} $ $ \varphi_{41,0} $	= = = =	$\begin{array}{c} 2002_2 \\ 2366_2 \\ 5369_1 \\ 6643_2 \\ 10647_1 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$
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