

$O_{10}^+(2).2 \pmod{7}$

	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	1	7×6
	8	0	$868_1 = \chi_{5,0}, \varphi_{5,0}$
	9	0	$868_2 = \chi_{5,1}, \varphi_{5,1}$
	10	1	7×6
	11	0	$11067_1 = \chi_{11,0}, \varphi_{11,0}$
	12	0	$11067_2 = \chi_{11,1}, \varphi_{11,1}$
	13	0	$13020_1 = \chi_{12,0}, \varphi_{12,0}$
	14	0	$13020_2 = \chi_{12,1}, \varphi_{12,1}$
	15	0	$13888_1 = \chi_{13,0}, \varphi_{13,0}$
	16	0	$13888_2 = \chi_{13,1}, \varphi_{13,1}$
	17	0	$14756_1 = \chi_{14,0}, \varphi_{14,0}$
	18	0	$14756_2 = \chi_{14,1}, \varphi_{14,1}$
	19	1	7×6
	20	0	$18445_1 = \chi_{16,0}, \varphi_{16,0}$
	21	0	$18445_2 = \chi_{16,1}, \varphi_{16,1}$
	22	0	$18445_3 = \chi_{17,0}, \varphi_{17,0}$
	23	0	$18445_4 = \chi_{17,1}, \varphi_{17,1}$
	24	0	$22848_1 = \chi_{18,0}, \varphi_{18,0}$
	25	0	$22848_2 = \chi_{18,1}, \varphi_{18,1}$
	26	0	$36890_1 = \chi_{21,0}, \varphi_{21,0}$
	27	0	$36890_2 = \chi_{21,1}, \varphi_{21,1}$
	28	0	$110670_1 = \chi_{24+}, \varphi_{24+}$
	29	0	$66402_1 = \chi_{26,0}, \varphi_{26,0}$
	30	0	$66402_2 = \chi_{26,1}, \varphi_{26,1}$
	31	0	$73780_1 = \chi_{27,0}, \varphi_{27,0}$
	32	0	$73780_2 = \chi_{27,1}, \varphi_{27,1}$
	33	0	$73780_3 = \chi_{28,0}, \varphi_{28,0}$
	34	0	$73780_4 = \chi_{28,1}, \varphi_{28,1}$
	35	0	$73780_5 = \chi_{29,0}, \varphi_{29,0}$
	36	0	$73780_6 = \chi_{29,1}, \varphi_{29,1}$
	37	0	$110670_2 = \chi_{31,0}, \varphi_{32,0}$
	38	0	$110670_3 = \chi_{31,1}, \varphi_{32,1}$
	39	0	$110670_4 = \chi_{32,0}, \varphi_{33,0}$
	40	0	$110670_5 = \chi_{32,1}, \varphi_{33,1}$

	blocks	defect	matrix
	41	0	$221340_1 = \chi_{33+}, \varphi_{34+}$
	42	0	$147560_1 = \chi_{35,0}, \varphi_{36,0}$
	43	0	$147560_2 = \chi_{35,1}, \varphi_{36,1}$
	44	0	$147560_3 = \chi_{36,0}, \varphi_{37,0}$
	45	0	$147560_4 = \chi_{36,1}, \varphi_{37,1}$
	46	0	$166005_1 = \chi_{39,0}, \varphi_{40,0}$
	47	0	$166005_2 = \chi_{39,1}, \varphi_{40,1}$
	48	0	$166005_3 = \chi_{40,0}, \varphi_{41,0}$
	49	0	$166005_4 = \chi_{40,1}, \varphi_{41,1}$
	50	0	$166005_5 = \chi_{41,0}, \varphi_{42,0}$
	51	0	$166005_6 = \chi_{41,1}, \varphi_{42,1}$
	52	0	$208320_1 = \chi_{43,0}, \varphi_{43,0}$
	53	0	$208320_2 = \chi_{43,1}, \varphi_{43,1}$
	54	0	$221340_2 = \chi_{44,0}, \varphi_{44,0}$
	55	0	$221340_3 = \chi_{44,1}, \varphi_{44,1}$
	56	0	$221340_4 = \chi_{45,0}, \varphi_{45,0}$
	57	0	$221340_5 = \chi_{45,1}, \varphi_{45,1}$
	58	0	$236096_1 = \chi_{46,0}, \varphi_{46,0}$
	59	0	$236096_2 = \chi_{46,1}, \varphi_{46,1}$
	60	0	$265608_1 = \chi_{47,0}, \varphi_{48,0}$
	61	0	$265608_2 = \chi_{47,1}, \varphi_{48,1}$
	62	0	$298809_1 = \chi_{48,0}, \varphi_{49,0}$
	63	0	$298809_2 = \chi_{48,1}, \varphi_{49,1}$
	64	0	$332010_1 = \chi_{50,0}, \varphi_{53,0}$
	65	0	$332010_2 = \chi_{50,1}, \varphi_{53,1}$
	66	0	$664020_1 = \chi_{51+}, \varphi_{54+}$
	67	0	$368900_1 = \chi_{59,0}, \varphi_{57,0}$
	68	0	$368900_2 = \chi_{59,1}, \varphi_{57,1}$
	69	0	$439425_1 = \chi_{60,0}, \varphi_{59,0}$
	70	0	$439425_2 = \chi_{60,1}, \varphi_{59,1}$
	71	0	$439425_3 = \chi_{61,0}, \varphi_{60,0}$
	72	0	$439425_4 = \chi_{61,1}, \varphi_{60,1}$
	73	0	$878850_1 = \chi_{62+}, \varphi_{61+}$
	74	0	$878850_2 = \chi_{64+}, \varphi_{63+}$
	75	0	$442680_1 = \chi_{66,0}, \varphi_{65,0}$
	76	0	$442680_2 = \chi_{66,1}, \varphi_{65,1}$
	77	0	$442680_3 = \chi_{67,0}, \varphi_{66,0}$
	78	0	$442680_4 = \chi_{67,1}, \varphi_{66,1}$
	79	0	$885360_1 = \chi_{68+}, \varphi_{67+}$
	80	0	$996030_1 = \chi_{70+}, \varphi_{69+}$

	blocks	defect	matrix
	81	0	$590240_1 = \chi_{74,0}, \varphi_{71,0}$
	82	0	$590240_2 = \chi_{74,1}, \varphi_{71,1}$
	83	0	$664020_2 = \chi_{76,0}, \varphi_{72,0}$
	84	0	$664020_3 = \chi_{76,1}, \varphi_{72,1}$
	85	0	$664020_4 = \chi_{77,0}, \varphi_{73,0}$
	86	0	$664020_5 = \chi_{77,1}, \varphi_{73,1}$
	87	0	$708288_1 = \chi_{78,0}, \varphi_{74,0}$
	88	0	$708288_2 = \chi_{78,1}, \varphi_{74,1}$
	89	0	$1445850_1 = \chi_{83+}, \varphi_{77+}$
	90	0	$1445850_2 = \chi_{85+}, \varphi_{79+}$
	91	0	$1445850_3 = \chi_{87+}, \varphi_{81+}$
	92	0	$830025_1 = \chi_{90,0}, \varphi_{83,0}$
	93	0	$830025_2 = \chi_{90,1}, \varphi_{83,1}$
	94	0	$885360_2 = \chi_{91,0}, \varphi_{84,0}$
	95	0	$885360_3 = \chi_{91,1}, \varphi_{84,1}$
	96	0	$1180480_1 = \chi_{94,0}, \varphi_{86,0}$
	97	0	$1180480_2 = \chi_{94,1}, \varphi_{86,1}$
	98	0	$1195236_1 = \chi_{95,0}, \varphi_{87,0}$
	99	0	$1195236_2 = \chi_{95,1}, \varphi_{87,1}$
	100	0	$1494045_1 = \chi_{97,0}, \varphi_{88,0}$
	101	0	$1494045_2 = \chi_{97,1}, \varphi_{88,1}$

Block 1:	$\varphi_{1,0}$	$\varphi_{6,1}$	$\varphi_{22,1}$	$\varphi_{30,0}$	$\varphi_{31,0}$	$\varphi_{47,0}$	
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	$\varphi_{1,0} = 1_1$
$2108_2 = \chi_{6,1}$	.	1	.	.	.	.	$\varphi_{6,1} = 2108_2$
$42160_2 = \chi_{22,1}$	.	1	1	.	.	.	$\varphi_{22,1} = 40052_2$
$101184_1 = \chi_{30,0}$	1	.	.	1	.	.	$\varphi_{30,0} = 101183_1$
$148800_1 = \chi_{37,0}$	.	.	1	.	1	.	$\varphi_{31,0} = 108748_1$
$348160_1 = \chi_{54,0}$	.	.	.	1	.	1	$\varphi_{47,0} = 246977_1$
$355725_1 = \chi_{55,0}$	.	.	.	.	1	1	

Block 2:	$\varphi_{1,1}$	$\varphi_{6,0}$	$\varphi_{22,0}$	$\varphi_{30,1}$	$\varphi_{31,1}$	$\varphi_{47,1}$
$1_2 = \chi_{1,1}$	1	.	.	.	.	.
$2108_1 = \chi_{6,0}$	.	1	.	.	.	.
$42160_1 = \chi_{22,0}$	.	1	1	.	.	.
$101184_2 = \chi_{30,1}$	1	.	.	1	.	.
$148800_2 = \chi_{37,1}$	.	.	1	.	1	.
$348160_2 = \chi_{54,1}$	.	.	.	1	.	1
$355725_2 = \chi_{55,1}$	.	.	.	.	1	1

$\varphi_{1,1}$	=	1_2
$\varphi_{6,0}$	=	2108_1
$\varphi_{22,0}$	=	40052_1
$\varphi_{30,1}$	=	101183_2
$\varphi_{31,1}$	=	108748_2
$\varphi_{47,1}$	=	246977_2

Block 3:	$\varphi_{2,0}$	$\varphi_{7,0}$	$\varphi_{19,0}$	$\varphi_{20,1}$	$\varphi_{51,0}$	$\varphi_{52,0}$
$155_1 = \chi_{2,0}$	1	.	.	.	.	.
$5270_1 = \chi_{7,0}$	1	1	.	.	.	.
$31620_2 = \chi_{19,1}$	.	.	.	1	.	.
$31620_3 = \chi_{20,0}$	.	1	1	.	.	.
$337280_1 = \chi_{53,0}$	.	.	.	1	1	.
$355725_3 = \chi_{56,0}$	.	.	1	.	.	1
$634880_1 = \chi_{75,0}$	.	.	.	.	1	1

$\varphi_{2,0}$	=	155_1
$\varphi_{7,0}$	=	5115_1
$\varphi_{19,0}$	=	26505_1
$\varphi_{20,1}$	=	31620_2
$\varphi_{51,0}$	=	305660_1
$\varphi_{52,0}$	=	329220_1

Block 4:	$\varphi_{2,1}$	$\varphi_{7,1}$	$\varphi_{19,1}$	$\varphi_{20,0}$	$\varphi_{51,1}$	$\varphi_{52,1}$
$155_2 = \chi_{2,1}$	1	.	.	.	.	.
$5270_2 = \chi_{7,1}$	1	1	.	.	.	.
$31620_1 = \chi_{19,0}$	.	.	.	1	.	.
$31620_4 = \chi_{20,1}$	.	1	1	.	.	.
$337280_2 = \chi_{53,1}$	.	.	.	1	1	.
$355725_4 = \chi_{56,1}$	.	.	1	.	.	1
$634880_2 = \chi_{75,1}$	.	.	.	.	1	1

$\varphi_{2,1}$	=	155_2
$\varphi_{7,1}$	=	5115_2
$\varphi_{19,1}$	=	26505_2
$\varphi_{20,0}$	=	31620_1
$\varphi_{51,1}$	=	305660_2
$\varphi_{52,1}$	=	329220_2

Block 5:	$\varphi_{3,0}$	$\varphi_{3,1}$	$\varphi_{23,0}$	$\varphi_{23,1}$	$\varphi_{75,0}$	$\varphi_{75,1}$
$186_1 = \chi_{3,0}$	1	.	.	.	.	.
$186_2 = \chi_{3,1}$	.	1	.	.	.	.
$50592_1 = \chi_{23,0}$	1	.	1	.	.	.
$50592_2 = \chi_{23,1}$	.	1	.	1	.	.
$1422900_1 = \chi_{79+}$	.	.	.	.	1	1
$761856_1 = \chi_{89,0}$	.	.	1	.	1	.
$761856_2 = \chi_{89,1}$	.	.	.	1	.	1

$\varphi_{3,0}$	=	186_1
$\varphi_{3,1}$	=	186_2
$\varphi_{23,0}$	=	50406_1
$\varphi_{23,1}$	=	50406_2
$\varphi_{75,0}$	=	711450_1
$\varphi_{75,1}$	=	711450_2

Block 6:	$\varphi_{4,0}$	$\varphi_{8,0}$	$\varphi_{10,1}$	$\varphi_{39,1}$	$\varphi_{58,0}$	$\varphi_{85,0}$
$340_1 = \chi_{4,0}$	1	.	.	.	.	.
$6324_1 = \chi_{8,0}$	1	1	.	.	.	.
$9300_2 = \chi_{10,1}$	.	.	1	.	.	.
$168640_2 = \chi_{42,1}$	.	.	1	1	.	.
$539648_2 = \chi_{73,1}$	.	.	.	1	1	.
$1048576_1 = \chi_{93,0}$	.	1	.	.	.	1
$1422900_3 = \chi_{96,0}$	.	.	.	.	1	1

$$\begin{aligned}
\varphi_{4,0} &= 340_1 \\
\varphi_{8,0} &= 5984_1 \\
\varphi_{10,1} &= 9300_2 \\
\varphi_{39,1} &= 159340_2 \\
\varphi_{58,0} &= 380308_1 \\
\varphi_{85,0} &= 1042592_1
\end{aligned}$$

Block 7:	$\varphi_{4,1}$	$\varphi_{8,1}$	$\varphi_{10,0}$	$\varphi_{39,0}$	$\varphi_{58,1}$	$\varphi_{85,1}$
$340_2 = \chi_{4,1}$	1	.	.	.	.	.
$6324_2 = \chi_{8,1}$	1	1	.	.	.	.
$9300_1 = \chi_{10,0}$	.	.	1	.	.	.
$168640_1 = \chi_{42,0}$	.	.	1	1	.	.
$539648_1 = \chi_{73,0}$	.	.	.	1	1	.
$1048576_2 = \chi_{93,1}$	.	1	.	.	.	1
$1422900_4 = \chi_{96,1}$	.	.	.	.	1	1

$$\begin{aligned}
\varphi_{4,1} &= 340_2 \\
\varphi_{8,1} &= 5984_2 \\
\varphi_{10,0} &= 9300_1 \\
\varphi_{39,0} &= 159340_1 \\
\varphi_{58,1} &= 380308_2 \\
\varphi_{85,1} &= 1042592_2
\end{aligned}$$

Block 10:	$\varphi_{9,0}$	$\varphi_{9,1}$	$\varphi_{38,0}$	$\varphi_{38,1}$	$\varphi_{56,0}$	$\varphi_{56,1}$
$7905_1 = \chi_{9,0}$	1	.	.	.	.	.
$7905_2 = \chi_{9,1}$	.	1	.	.	.	.
$158100_1 = \chi_{38,0}$	1	.	1	.	.	.
$158100_2 = \chi_{38,1}$	.	1	.	1	.	.
$711450_1 = \chi_{57+}$	.	.	.	.	1	1
$505920_1 = \chi_{72,0}$	.	.	1	.	1	.
$505920_2 = \chi_{72,1}$	.	.	.	1	.	1

$$\begin{aligned}
\varphi_{9,0} &= 7905_1 \\
\varphi_{9,1} &= 7905_2 \\
\varphi_{38,0} &= 150195_1 \\
\varphi_{38,1} &= 150195_2 \\
\varphi_{56,0} &= 355725_1 \\
\varphi_{56,1} &= 355725_2
\end{aligned}$$

Block 19:	$\varphi_{15,0}$	$\varphi_{15,1}$	$\varphi_{50,0}$	$\varphi_{50,1}$	$\varphi_{76,0}$	$\varphi_{76,1}$
$15810_1 = \chi_{15,0}$	1	.	.	.	.	.
$15810_2 = \chi_{15,1}$	.	1	.	.	.	.
$316200_1 = \chi_{49,0}$	1	.	1	.	.	.
$316200_2 = \chi_{49,1}$	.	1	.	1	.	.
$1422900_2 = \chi_{81+}$	.	.	.	.	1	1
$1011840_1 = \chi_{92,0}$	.	.	1	.	1	.
$1011840_2 = \chi_{92,1}$	.	.	.	1	.	1

$$\begin{aligned}
\varphi_{15,0} &= 15810_1 \\
\varphi_{15,1} &= 15810_2 \\
\varphi_{50,0} &= 300390_1 \\
\varphi_{50,1} &= 300390_2 \\
\varphi_{76,0} &= 711450_3 \\
\varphi_{76,1} &= 711450_4
\end{aligned}$$