

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

	blocks	defect	matrix
$G :$	1	1	7×6
	2	0	$154_1 = \chi_2, \varphi_2$
	3	1	7×6
	4	1	7×6
	5	0	$595_1 = \chi_5, \varphi_5$
	$6 = \bar{5}$	0	$595_2 = \chi_6, \varphi_6$
	7	0	$5236_1 = \chi_9, \varphi_9$
	8	0	$5236_2 = \chi_{10}, \varphi_{10}$
	9	0	$5950_1 = \chi_{11}, \varphi_{11}$
	$10 = \bar{9}$	0	$5950_2 = \chi_{12}, \varphi_{12}$
	11	0	$6545_1 = \chi_{13}, \varphi_{13}$
	12	0	$6545_2 = \chi_{14}, \varphi_{14}$
	13	0	$7700_1 = \chi_{15}, \varphi_{15}$
	14	0	$13090_1 = \chi_{18}, \varphi_{18}$
	15	1	5×3
	16	0	$15708_1 = \chi_{21}, \varphi_{21}$
	17	0	$15708_2 = \chi_{22}, \varphi_{22}$
	$18 = \bar{17}$	0	$15708_3 = \chi_{23}, \varphi_{23}$
	19	0	$22848_1 = \chi_{24}, \varphi_{24}$
	20	0	$26180_1 = \chi_{25}, \varphi_{25}$
	$21 = \bar{20}$	0	$26180_2 = \chi_{26}, \varphi_{26}$
	22	0	$32725_1 = \chi_{27}, \varphi_{27}$
	23	0	$39270_1 = \chi_{29}, \varphi_{29}$
	24	0	$39270_2 = \chi_{30}, \varphi_{30}$
	25	0	$41888_1 = \chi_{31}, \varphi_{31}$
	26	0	$65450_1 = \chi_{34}, \varphi_{34}$
	27	0	$65450_2 = \chi_{35}, \varphi_{35}$
	$28 = \bar{27}$	0	$65450_3 = \chi_{36}, \varphi_{36}$
	29	0	$71400_1 = \chi_{37}, \varphi_{37}$
	$30 = \bar{29}$	0	$71400_2 = \chi_{38}, \varphi_{38}$
	31	0	$78540_1 = \chi_{39}, \varphi_{39}$
	32	0	$83776_1 = \chi_{40}, \varphi_{40}$
	33	0	$104720_1 = \chi_{41}, \varphi_{41}$
	$34 = \bar{33}$	0	$104720_2 = \chi_{42}, \varphi_{42}$
	35	0	$106029_1 = \chi_{43}, \varphi_{43}$
	36	0	$106029_2 = \chi_{44}, \varphi_{44}$
	37	0	$106029_3 = \chi_{45}, \varphi_{45}$
	$38 = \bar{37}$	0	$106029_4 = \chi_{46}, \varphi_{46}$
	39	0	$123200_1 = \chi_{47}, \varphi_{47}$
	40	0	$130900_1 = \chi_{48}, \varphi_{48}$

	blocks	defect	matrix
	41	0	$130900_2 = \chi_{49}, \varphi_{49}$
	42	0	$130900_3 = \chi_{50}, \varphi_{50}$
	43	0	$130900_4 = \chi_{51}, \varphi_{51}$
	44	0	$130900_5 = \chi_{52}, \varphi_{52}$
	$45 = \overline{44}$	0	$130900_6 = \chi_{53}, \varphi_{53}$
	46	0	$157080_1 = \chi_{54}, \varphi_{55}$
	47	0	$157080_2 = \chi_{55}, \varphi_{56}$
	48	0	$190400_1 = \chi_{58}, \varphi_{59}$
	$49 = \overline{48}$	0	$190400_2 = \chi_{59}, \varphi_{60}$
	50	0	$212058_1 = \chi_{61}, \varphi_{62}$
	51	0	$251328_1 = \chi_{63}, \varphi_{63}$
	52	0	$251328_2 = \chi_{64}, \varphi_{64}$
	$53 = \overline{52}$	0	$251328_3 = \chi_{65}, \varphi_{65}$
	54	0	$261800_1 = \chi_{66}, \varphi_{66}$
	55	0	$261800_2 = \chi_{67}, \varphi_{67}$
	56	0	$261800_3 = \chi_{68}, \varphi_{68}$
	57	0	$294525_1 = \chi_{69}, \varphi_{70}$
	58	0	$294525_2 = \chi_{70}, \varphi_{71}$
	59	0	$294525_3 = \chi_{71}, \varphi_{72}$
	$60 = \overline{59}$	0	$294525_4 = \chi_{72}, \varphi_{73}$
	61	0	$314160_1 = \chi_{74}, \varphi_{74}$
	62	0	$418880_1 = \chi_{76}, \varphi_{75}$
	63	0	$418880_2 = \chi_{77}, \varphi_{76}$
	64	0	$424116_1 = \chi_{78}, \varphi_{77}$
	65	0	$424116_2 = \chi_{79}, \varphi_{78}$
	66	0	$424116_3 = \chi_{80}, \varphi_{79}$
	$67 = \overline{66}$	0	$424116_4 = \chi_{81}, \varphi_{80}$
	68	0	$523600_1 = \chi_{82}, \varphi_{82}$
	$69 = \overline{68}$	0	$523600_2 = \chi_{83}, \varphi_{83}$
	70	0	$530145_1 = \chi_{84}, \varphi_{84}$
	71	0	$530145_2 = \chi_{85}, \varphi_{85}$
	72	0	$530145_3 = \chi_{86}, \varphi_{86}$
	$73 = \overline{72}$	0	$530145_4 = \chi_{87}, \varphi_{87}$
	74	0	$589050_1 = \chi_{88}, \varphi_{88}$
	$75 = \overline{74}$	0	$589050_2 = \chi_{89}, \varphi_{89}$
	76	0	$589050_3 = \chi_{90}, \varphi_{90}$
	$77 = \overline{76}$	0	$589050_4 = \chi_{91}, \varphi_{91}$
	78	0	$609280_1 = \chi_{93}, \varphi_{92}$
	$79 = \overline{78}$	0	$609280_2 = \chi_{94}, \varphi_{93}$
	80	0	$630784_1 = \chi_{95}, \varphi_{94}$

	blocks	defect	matrix
	81	0	$722925_1 = \chi_{98}, \varphi_{97}$
	$82 = \overline{81}$	0	$722925_2 = \chi_{99}, \varphi_{98}$
	83	0	$722925_3 = \chi_{100}, \varphi_{99}$
	$84 = \overline{83}$	0	$722925_4 = \chi_{101}, \varphi_{100}$
	85	0	$722925_5 = \chi_{102}, \varphi_{101}$
	$86 = \overline{85}$	0	$722925_6 = \chi_{103}, \varphi_{102}$
	87	0	$837760_1 = \chi_{105}, \varphi_{103}$
	88	0	$848232_1 = \chi_{106}, \varphi_{104}$
	89	0	$1047200_1 = \chi_{109}, \varphi_{106}$
	90	0	$1060290_1 = \chi_{111}, \varphi_{107}$
	91	0	$1178100_1 = \chi_{113}, \varphi_{108}$
	92	0	$1403325_1 = \chi_{114}, \varphi_{109}$
	93	0	$1403325_2 = \chi_{115}, \varphi_{110}$

Block 1:	φ_1	φ_7	φ_{19}	φ_{28}	φ_{54}	φ_{61}	
$1_1 = \chi_1$	1	.	.	.	.	.	$\varphi_1 = 1_1$
$748_1 = \chi_7$	1	1	.	.	.	.	$\varphi_7 = 747_1$
$14960_1 = \chi_{19}$	.	.	1	.	.	.	$\varphi_{19} = 14960_1$
$35904_1 = \chi_{28}$	.	1	.	1	.	.	$\varphi_{28} = 35157_1$
$171072_1 = \chi_{56}$	.	.	1	.	1	.	$\varphi_{54} = 156112_1$
$227205_1 = \chi_{62}$	.	.	.	1	.	1	$\varphi_{61} = 192048_1$
$348160_1 = \chi_{75}$	.	.	.	.	1	1	

Block 3:	φ_3	φ_{16}	φ_{33}	φ_{57}	φ_{81}	φ_{96}	
$187_1 = \chi_3$	1	.	.	.	.	.	$\varphi_3 = 187_1$
$9350_1 = \chi_{16}$	.	1	.	.	.	.	$\varphi_{16} = 9350_1$
$56100_1 = \chi_{32}$	1	.	1	.	.	.	$\varphi_{33} = 55913_1$
$181764_1 = \chi_{57}$	.	1	.	1	.	.	$\varphi_{57} = 172414_1$
$598400_1 = \chi_{92}$	.	.	.	1	1	.	$\varphi_{81} = 425986_1$
$765952_1 = \chi_{104}$	.	.	1	.	.	1	$\varphi_{96} = 710039_1$
$1136025_1 = \chi_{112}$	.	.	.	.	1	1	

Block 4:	φ_4	φ_8	φ_{17}	φ_{32}	φ_{58}	φ_{105}	
$340_1 = \chi_4$	1	.	.	.	.	.	$\varphi_4 = 340_1$
$2244_1 = \chi_8$	.	1	.	.	.	.	$\varphi_8 = 2244_1$
$10692_1 = \chi_{17}$	1	.	1	.	.	.	$\varphi_{17} = 10352_1$
$59840_1 = \chi_{33}$	.	.	1	1	.	.	$\varphi_{32} = 49488_1$
$191488_1 = \chi_{60}$	.	1	.	.	1	.	$\varphi_{58} = 189244_1$
$908820_1 = \chi_{107}$	.	.	.	1	.	1	$\varphi_{105} = 859332_1$
$1048576_1 = \chi_{110}$	.	.	.	.	1	1	

Block 15:	φ_{20}	φ_{69}	φ_{95}	
$15147_1 = \chi_{20}$	1	.	.	$\varphi_{20} = 15147_1$
$302940_1 = \chi_{73}$	1	1	.	$\varphi_{69} = 287793_1$
$681615_1 = \chi_{96}$	.	.	1	$\varphi_{95} = 681615_1$
$681615_2 = \chi_{97}$	.	.	1	
$969408_1 = \chi_{108}$	.	1	1	