

$A_{16} \pmod{11}$

	blocks	defect	matrix
$G :$	1	1	11×10
	2	1	11×10
	3	1	11×10
	4	1	7×5
	5	0	$440_1 = \chi_5, \varphi_5$
	6	0	$1430_1 = \chi_{10}, \varphi_{10}$
	7	0	$2640_1 = \chi_{12}, \varphi_{12}$
	8	0	$3003_1 = \chi_{13}, \varphi_{13}$
	9	0	$3432_1 = \chi_{14}, \varphi_{15}$
	10	0	$4004_1 = \chi_{17}, \varphi_{17}$
	11	0	$5005_1 = \chi_{18}, \varphi_{18}$
	12	0	$6435_1 = \chi_{19}, \varphi_{19}$
	13	0	$12012_1 = \chi_{22}, \varphi_{22}$
	14	0	$12012_2 = \chi_{23}, \varphi_{23}$
	15	0	$13860_1 = \chi_{24}, \varphi_{24}$
	16	0	$14300_1 = \chi_{25}, \varphi_{25}$
	17	0	$18018_1 = \chi_{27}, \varphi_{27}$
	18	0	$20020_1 = \chi_{28}, \varphi_{29}$
	19	0	$21021_1 = \chi_{29}, \varphi_{30}$
	$20 = \overline{19}$	0	$21021_2 = \chi_{30}, \varphi_{31}$
	21	0	$23100_1 = \chi_{32}, \varphi_{33}$
	22	0	$24024_1 = \chi_{33}, \varphi_{34}$
	23	0	$30030_1 = \chi_{35}, \varphi_{37}$
	24	0	$32032_1 = \chi_{36}, \varphi_{39}$
	25	0	$36036_1 = \chi_{37}, \varphi_{40}$
	26	0	$36608_1 = \chi_{38}, \varphi_{41}$
	27	0	$43120_1 = \chi_{41}, \varphi_{42}$
	28	0	$45760_1 = \chi_{42}, \varphi_{43}$
	29	0	$51480_1 = \chi_{43}, \varphi_{45}$
	30	0	$60060_1 = \chi_{44}, \varphi_{49}$
	31	0	$60060_2 = \chi_{45}, \varphi_{50}$
	32	0	$68640_1 = \chi_{47}, \varphi_{53}$
	33	0	$71500_1 = \chi_{49}, \varphi_{55}$
	34	0	$82368_1 = \chi_{54}, \varphi_{56}$
	35	0	$85800_1 = \chi_{55}, \varphi_{57}$
	36	0	$91520_1 = \chi_{56}, \varphi_{58}$
	37	0	$100100_1 = \chi_{58}, \varphi_{59}$
	38	0	$105600_1 = \chi_{59}, \varphi_{60}$
	39	0	$112112_1 = \chi_{60}, \varphi_{61}$
	40	0	$112112_2 = \chi_{61}, \varphi_{62}$

	blocks	defect	matrix
	41	0	$114400_1 = \chi_{62}, \varphi_{63}$
	42	0	$115830_1 = \chi_{64}, \varphi_{64}$
	43	0	$125125_1 = \chi_{66}, \varphi_{65}$
	$44 = \overline{43}$	0	$125125_2 = \chi_{67}, \varphi_{66}$
	45	0	$140140_1 = \chi_{68}, \varphi_{67}$
	46	0	$150150_1 = \chi_{69}, \varphi_{68}$
	47	0	$150150_2 = \chi_{70}, \varphi_{69}$
	48	0	$155232_1 = \chi_{71}, \varphi_{70}$
	49	0	$168168_1 = \chi_{72}, \varphi_{71}$
	50	0	$171600_1 = \chi_{73}, \varphi_{72}$
	51	0	$173250_1 = \chi_{74}, \varphi_{73}$
	52	0	$180180_1 = \chi_{75}, \varphi_{74}$
	53	0	$180180_2 = \chi_{76}, \varphi_{75}$
	54	0	$194040_1 = \chi_{77}, \varphi_{77}$
	55	0	$197120_1 = \chi_{78}, \varphi_{78}$
	56	0	$200200_1 = \chi_{79}, \varphi_{79}$
	57	0	$200200_2 = \chi_{80}, \varphi_{80}$
	58	0	$202125_1 = \chi_{81}, \varphi_{81}$
	$59 = \overline{58}$	0	$202125_2 = \chi_{82}, \varphi_{82}$
	60	0	$210210_1 = \chi_{84}, \varphi_{84}$
	61	0	$231660_1 = \chi_{85}, \varphi_{85}$
	62	0	$240240_1 = \chi_{86}, \varphi_{87}$
	63	0	$240240_2 = \chi_{87}, \varphi_{88}$
	64	0	$280280_1 = \chi_{90}, \varphi_{91}$
	65	0	$280280_2 = \chi_{91}, \varphi_{92}$
	66	0	$292864_1 = \chi_{92}, \varphi_{93}$
	67	0	$300300_1 = \chi_{93}, \varphi_{94}$
	68	0	$320320_1 = \chi_{96}, \varphi_{96}$
	69	0	$336336_1 = \chi_{97}, \varphi_{97}$
	70	0	$337920_1 = \chi_{98}, \varphi_{98}$
	71	0	$360360_1 = \chi_{99}, \varphi_{99}$
	72	0	$360360_2 = \chi_{100}, \varphi_{100}$
	73	0	$411840_1 = \chi_{101}, \varphi_{102}$
	74	0	$416988_1 = \chi_{102}, \varphi_{103}$
	75	0	$429000_1 = \chi_{103}, \varphi_{105}$
	76	0	$429000_2 = \chi_{104}, \varphi_{106}$
	77	0	$448448_1 = \chi_{105}, \varphi_{107}$
	78	0	$480480_1 = \chi_{108}, \varphi_{109}$
	79	0	$500500_1 = \chi_{109}, \varphi_{110}$
	80	0	$512512_1 = \chi_{110}, \varphi_{111}$

	blocks	defect	matrix
	81	0	$549120_1 = \chi_{112}, \varphi_{112}$
	82	0	$600600_1 = \chi_{115}, \varphi_{113}$
	83	0	$630630_1 = \chi_{116}, \varphi_{114}$
	84	0	$630630_2 = \chi_{117}, \varphi_{115}$
	85	0	$640640_1 = \chi_{118}, \varphi_{116}$
	86	0	$648648_1 = \chi_{119}, \varphi_{117}$
	87	0	$1153152_1 = \chi_{123}, \varphi_{118}$

Block 1:	φ_1	φ_9	φ_{16}	φ_{20}	φ_{32}	φ_{36}	φ_{38}	φ_{44}	φ_{46}	φ_{52}
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	.	.
$1365_1 = \chi_9$.	1	.	.	.	.	.	.	.	.
$3640_1 = \chi_{15}$	1	.	1	.	.	.	.	.	.	.
$11648_1 = \chi_{21}$.	1	.	1	.	.	.	.	.	.
$24960_1 = \chi_{34}$.	.	1	.	1	.	.	.	.	.
$42120_1 = \chi_{40}$.	.	.	1	.	.	1	.	.	.
$73710_1 = \chi_{51}$	1	.	.	.	1	.
$76440_1 = \chi_{52}$	1	.	1	.	.
$80640_1 = \chi_{53}$	1	1	.	.
$91728_1 = \chi_{57}$	1	.	.	.	1
$116480_1 = \chi_{65}$	1	1

$$\begin{array}{ll}
\varphi_1 & = 1_1 \\
\varphi_9 & = 1365_1 \\
\varphi_{16} & = 3639_1 \\
\varphi_{20} & = 10283_1 \\
\varphi_{32} & = 21321_1 \\
\varphi_{36} & = 27637_1 \\
\varphi_{38} & = 31837_1 \\
\varphi_{44} & = 48803_1 \\
\varphi_{46} & = 52389_1 \\
\varphi_{52} & = 64091_1
\end{array}$$

Block 2:	φ_2	φ_6	φ_{11}	φ_{26}	φ_{47}	φ_{48}	φ_{51}	φ_{83}	φ_{89}	φ_{95}
$15_1 = \chi_2$	1	.	.	.	.	.	.	.	.	.
$455_1 = \chi_6$.	1	.	.	.	.	.	.	.	.
$2548_1 = \chi_{11}$	1	.	1	.	.	.	.	.	.	.
$16848_1 = \chi_{26}$.	1	.	1	.	.	.	.	.	.
$65520_1 = \chi_{46}$.	.	1	.	.	.	1	.	.	.
$71680_1 = \chi_{50}$.	.	.	1	1	.	.	.	.	.
$114660_1 = \chi_{63}$	1	1	.	.	.	.
$266240_1 = \chi_{89}$	1	1	.	.
$305760_1 = \chi_{94}$	1	.	.	1	.
$515970_1 = \chi_{111}$	1	.	1
$559104_1 = \chi_{113}$	1	1

$$\begin{aligned}
\varphi_2 &= 15_1 & \varphi_{48} &= 59373_1 \\
\varphi_6 &= 455_1 & \varphi_{51} &= 62987_1 \\
\varphi_{11} &= 2533_1 & \varphi_{83} &= 203253_1 \\
\varphi_{26} &= 16393_1 & \varphi_{89} &= 246387_1 \\
\varphi_{47} &= 55287_1 & \varphi_{95} &= 312717_1
\end{aligned}$$

Block 3:	φ_3	φ_7	φ_8	φ_{14}	φ_{28}	φ_{54}	φ_{76}	φ_{90}	φ_{101}	φ_{104}
$104_1 = \chi_3$	1	.	.	.	.	.	.	.	.	.
$896_1 = \chi_7$.	1	.	.	.	.	.	.	.	.
$1260_1 = \chi_8$	1	.	1	.	.	.	.	.	.	.
$3900_1 = \chi_{16}$.	1	.	1	.	.	.	.	.	.
$21840_1 = \chi_{31}$.	.	.	1	1	.	.	.	.	.
$69888_1 = \chi_{48}$.	.	1	.	.	1	.	.	.	.
$206388_1 = \chi_{83}$	1	.	1	.	.	.
$318500_1 = \chi_{95}$	1	.	1	.	.
$582400_1 = \chi_{114}$	1	.	1	.
$673920_1 = \chi_{120}$	1	.	1
$819000_1 = \chi_{122}$	1	1

$$\begin{aligned}
\varphi_3 &= 104_1 & \varphi_{54} &= 68732_1 \\
\varphi_7 &= 896_1 & \varphi_{76} &= 187552_1 \\
\varphi_8 &= 1156_1 & \varphi_{90} &= 249768_1 \\
\varphi_{14} &= 3004_1 & \varphi_{101} &= 394848_1 \\
\varphi_{28} &= 18836_1 & \varphi_{104} &= 424152_1
\end{aligned}$$

Block 4:	φ_4	φ_{21}	φ_{35}	φ_{86}	φ_{108}
$105_1 = \chi_4$	1	.	.	.	.
$10752_1 = \chi_{20}$	1	1	.	.	.
$38220_1 = \chi_{39}$	.	1	1	.	.
$262080_1 = \chi_{88}$	.	.	1	1	.
$464373_1 = \chi_{106}$	.	.	.	.	1
$464373_2 = \chi_{107}$	.	.	.	.	1
$698880_1 = \chi_{121}$	.	.	.	1	1

$$\begin{aligned} \varphi_4 &= 105_1 \\ \varphi_{21} &= 10647_1 \\ \varphi_{35} &= 27573_1 \\ \varphi_{86} &= 234507_1 \\ \varphi_{108} &= 464373_1 \end{aligned}$$