S_{12} (mod 11)

	blocks	defect	matrix
$G:$	1	1	11×10
	2	0	$11_1 = \chi_{2,0}, \varphi_{2,0}$
	3	0	$11_2 = \chi_{2,1}, \varphi_{2,1}$
	4	0	$55_1 = \chi_{4,0}, \varphi_{4,0}$
	5	0	$55_2 = \chi_{4,1}, \varphi_{4,1}$
	6	0	$132_1 = \chi_{5,0}, \varphi_{5,0}$
	7	0	$132_2 = \chi_{5,1}, \varphi_{5,1}$
	8	0	$154_1 = \chi_{6,0}, \varphi_{6,0}$
	9	0	$154_2 = \chi_{6,1}, \varphi_{6,1}$
	10	0	$165_1 = \chi_{7,0}, \varphi_{7,0}$
	11	0	$165_2 = \chi_{7,1}, \varphi_{7,1}$
	12	0	$275_1 = \chi_{8,0}, \varphi_{9,0}$
	13	0	$275_2 = \chi_{8,1}, \varphi_{9,1}$
	14	0	$297_1 = \chi_{9,0}, \varphi_{10,0}$
	15	0	$297_2 = \chi_{9,1}, \varphi_{10,1}$
	16	0	$330_1 = \chi_{11,0}, \varphi_{11,0}$
	17	0	$330_2 = \chi_{11,1}, \varphi_{11,1}$
	18	0	$462_1 = \chi_{12,0}, \varphi_{12,0}$
	19	0	$462_2 = \chi_{12,1}, \varphi_{12,1}$
	20	0	$462_3 = \chi_{13,0}, \varphi_{13,0}$
	21	0	$462_4 = \chi_{13,1}, \varphi_{13,1}$
	22	0	$616_1 = \chi_{14,0}, \varphi_{14,0}$
	23	0	$616_2 = \chi_{14,1}, \varphi_{14,1}$
	24	0	$891_1 = \chi_{15,0}, \varphi_{16,0}$
	25	0	$891_2 = \chi_{15,1}, \varphi_{16,1}$
	26	0	$1155_1 = \chi_{19,0}, \varphi_{18,0}$
	27	0	$1155_2 = \chi_{19,1}, \varphi_{18,1}$
	28	0	$1320_1 = \chi_{20,0}, \varphi_{19,0}$
	29	0	$1320_2 = \chi_{20,1}, \varphi_{19,1}$
	30	0	$2640_1 = \chi_{21+}, \varphi_{20+}$
	31	0	$1408_1 = \chi_{23,0}, \varphi_{22,0}$
	32	0	$1408_2 = \chi_{23,1}, \varphi_{22,1}$
	33	0	$1485_1 = \chi_{24,0}, \varphi_{23,0}$
	34	0	$1485_2 = \chi_{24,1}, \varphi_{23,1}$
	35	0	$1650_1 = \chi_{25,0}, \varphi_{24,0}$
	36	0	$1650_2 = \chi_{25,1}, \varphi_{24,1}$
	37	0	$1925_1 = \chi_{27,0}, \varphi_{25,0}$
	38	0	$1925_2 = \chi_{27,1}, \varphi_{25,1}$
	39	0	$1925_3 = \chi_{28,0}, \varphi_{26,0}$
	40	0	$1925_4 = \chi_{28,1}, \varphi_{26,1}$

	blocks	defect	matrix
	41	0	$2079_1 = \chi_{29,0}, \varphi_{27,0}$
	42	0	$2079_2 = \chi_{29,1}, \varphi_{27,1}$
	43	0	$2112_1 = \chi_{30,0}, \varphi_{28,0}$
	44	0	$2112_2 = \chi_{30,1}, \varphi_{28,1}$
	45	0	$2376_1 = \chi_{31,0}, \varphi_{29,0}$
	46	0	$2376_2 = \chi_{31,1}, \varphi_{29,1}$
	47	0	$2673_1 = \chi_{32,0}, \varphi_{30,0}$
	48	0	$2673_2 = \chi_{32,1}, \varphi_{30,1}$
	49	0	$2970_1 = \chi_{33,0}, \varphi_{31,0}$
	50	0	$2970_2 = \chi_{33,1}, \varphi_{31,1}$
	51	0	$3080_1 = \chi_{34,0}, \varphi_{32,0}$
	52	0	$3080_2 = \chi_{34,1}, \varphi_{32,1}$
	53	0	$3520_1 = \chi_{35,0}, \varphi_{33,0}$
	54	0	$3520_2 = \chi_{35,1}, \varphi_{33,1}$
	55	0	$3564_1 = \chi_{36,0}, \varphi_{34,0}$
	56	0	$3564_2 = \chi_{36,1}, \varphi_{34,1}$
	57	0	$3696_1 = \chi_{37,0}, \varphi_{35,0}$
	58	0	$3696_2 = \chi_{37,1}, \varphi_{35,1}$
	59	0	$7700_1 = \chi_{38+}, \varphi_{36+}$
	60	0	$4158_1 = \chi_{40,0}, \varphi_{38,0}$
	61	0	$4158_2 = \chi_{40,1}, \varphi_{38,1}$
	62	0	$4455_1 = \chi_{41,0}, \varphi_{39,0}$
	63	0	$4455_2 = \chi_{41,1}, \varphi_{39,1}$
	64	0	$5632_1 = \chi_{42,0}, \varphi_{40,0}$
	65	0	$5632_2 = \chi_{42,1}, \varphi_{40,1}$
	66	0	$5775_1 = \chi_{43,0}, \varphi_{41,0}$
	67	0	$5775_2 = \chi_{43,1}, \varphi_{41,1}$
$2.G:$	68	1	11×10
	69	0	$1408_3 = \chi_{47+}, \varphi_{44+}$
	70	0	$2816_1 = \chi_{49+}, \varphi_{46+}$
	71	0	$1760_1 = \chi_{51,0}, \varphi_{49,0}$
	72	0	$1760_2 = \chi_{51,1}, \varphi_{49,1}$
	73	0	$3520_3 = \chi_{52+}, \varphi_{50+}$
	74	0	$3520_4 = \chi_{54+}, \varphi_{52+}$
	75	0	$4224_1 = \chi_{57+}, \varphi_{54+}$
	76	0	$5280_1 = \chi_{59+}, \varphi_{56+}$
	77	0	$5632_3 = \chi_{63,0}, \varphi_{60,0}$
	78	0	$5632_4 = \chi_{63,1}, \varphi_{60,1}$
	79	0	$7392_1 = \chi_{64,0}, \varphi_{61,0}$
	80	0	$7392_2 = \chi_{64,1}, \varphi_{61,1}$

Block 1:	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{3,0}$	$\varphi_{3,1}$	$\varphi_{8,0}$	$\varphi_{8,1}$	$\varphi_{15,0}$	$\varphi_{15,1}$	$\varphi_{17,0}$	$\varphi_{17,1}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	.	1	.	.	.	.	.	.	.	.
$54_1 = \chi_{3,0}$	1	.	1	.	.	.	.	.	.	.
$54_2 = \chi_{3,1}$	.	1	.	1	.	.	.	.	.	.
$320_1 = \chi_{10,0}$	.	.	1	.	1	.	.	.	.	.
$320_2 = \chi_{10,1}$	.	.	.	1	.	1	.	.	.	.
$945_1 = \chi_{16,0}$	.	.	.	.	1	.	1	.	.	.
$945_2 = \chi_{16,1}$	.	.	.	.	.	1	.	1	.	.
$2100_1 = \chi_{17+}$	.	.	.	.	.	.	.	.	1	1
$1728_1 = \chi_{26,0}$	.	.	.	.	.	.	1	.	1	.
$1728_2 = \chi_{26,1}$	.	.	.	.	.	.	.	1	.	1

$$
\begin{aligned}
\varphi_{1,0} &= 1_1 & \varphi_{8,1} &= 267_2 \\
\varphi_{1,1} &= 1_2 & \varphi_{15,0} &= 678_1 \\
\varphi_{3,0} &= 53_1 & \varphi_{15,1} &= 678_2 \\
\varphi_{3,1} &= 53_2 & \varphi_{17,0} &= 1050_1 \\
\varphi_{8,0} &= 267_1 & \varphi_{17,1} &= 1050_2
\end{aligned}
$$

Block 68:	$\varphi_{42,0}$	$\varphi_{42,1}$	$\varphi_{43,0}$	$\varphi_{43,1}$	$\varphi_{48,0}$	$\varphi_{48,1}$	$\varphi_{58,0}$	$\varphi_{58,1}$	$\varphi_{59,0}$	$\varphi_{59,1}$
$32_1 = \chi_{44,0}$	1	.	.	.	.	.	.	.	.	.
$32_2 = \chi_{44,1}$	.	1	.	.	.	.	.	.	.	.
$320_3 = \chi_{45+}$	1	1	1	1	.	.	.	.	.	.
$1792_1 = \chi_{56,0}$	.	.	1	.	1	.	.	.	.	.
$1792_2 = \chi_{56,1}$	.	.	.	1	.	1	.	.	.	.
$3840_1 = \chi_{61,0}$	.	.	.	.	.	.	1	.	.	.
$3840_2 = \chi_{61,1}$	.	.	.	.	.	.	.	1	.	.
$5600_1 = \chi_{62,0}$	.	.	.	.	1	.	.	.	1	.
$5600_2 = \chi_{62,1}$	.	.	.	.	.	1	.	.	.	1
$7776_1 = \chi_{65,0}$	.	.	.	.	.	.	1	.	1	.
$7776_2 = \chi_{65,1}$	.	.	.	.	.	.	.	1	.	1

$$
\begin{aligned}
\varphi_{42,0} &= 32_1 & \varphi_{48,1} &= 1664_2 \\
\varphi_{42,1} &= 32_2 & \varphi_{58,0} &= 3840_1 \\
\varphi_{43,0} &= 128_1 & \varphi_{58,1} &= 3840_2 \\
\varphi_{43,1} &= 128_2 & \varphi_{59,0} &= 3936_1 \\
\varphi_{48,0} &= 1664_1 & \varphi_{59,1} &= 3936_2
\end{aligned}
$$