

$HS.2 \pmod{11}$

	blocks	defect	matrix
$G :$	1	1	11×10
	2	0	$22_1 = \chi_{2,0}, \varphi_{2,0}$
	3	0	$22_2 = \chi_{2,1}, \varphi_{2,1}$
	4	0	$77_1 = \chi_{3,0}, \varphi_{3,0}$
	5	0	$77_2 = \chi_{3,1}, \varphi_{3,1}$
	6	0	$154_1 = \chi_{4,0}, \varphi_{4,0}$
	7	0	$154_2 = \chi_{4,1}, \varphi_{4,1}$
	8	0	$308_1 = \chi_{5+}, \varphi_{5+}$
	9	0	$231_1 = \chi_{8,0}, \varphi_{8,0}$
	10	0	$231_2 = \chi_{8,1}, \varphi_{8,1}$
	11	0	$693_1 = \chi_{9,0}, \varphi_{9,0}$
	12	0	$693_2 = \chi_{9,1}, \varphi_{9,1}$
	13	0	$770_1 = \chi_{10,0}, \varphi_{10,0}$
	14	0	$770_2 = \chi_{10,1}, \varphi_{10,1}$
	15	0	$1540_1 = \chi_{11+}, \varphi_{11+}$
	16	0	$825_1 = \chi_{13,0}, \varphi_{13,0}$
	17	0	$825_2 = \chi_{13,1}, \varphi_{13,1}$
	18	0	$1056_1 = \chi_{16,0}, \varphi_{16,0}$
	19	0	$1056_2 = \chi_{16,1}, \varphi_{16,1}$

	blocks	defect	matrix
	20	0	$1386_1 = \chi_{17,0}, \varphi_{17,0}$
	21	0	$1386_2 = \chi_{17,1}, \varphi_{17,1}$
	22	0	$1408_1 = \chi_{18,0}, \varphi_{18,0}$
	23	0	$1408_2 = \chi_{18,1}, \varphi_{18,1}$
	24	0	$1925_1 = \chi_{20,0}, \varphi_{19,0}$
	25	0	$1925_2 = \chi_{20,1}, \varphi_{19,1}$
	26	0	$1925_3 = \chi_{21,0}, \varphi_{20,0}$
	27	0	$1925_4 = \chi_{21,1}, \varphi_{20,1}$
	28	0	$2750_1 = \chi_{23,0}, \varphi_{22,0}$
	29	0	$2750_2 = \chi_{23,1}, \varphi_{22,1}$
$2.G :$	30	1	11×10
	31	0	$352_1 = \chi_{26+}, \varphi_{24+}$
	32	0	$1232_1 = \chi_{28+}, \varphi_{27+}$
	33	0	$1848_1 = \chi_{30+}, \varphi_{30+}$
	34	0	$2464_1 = \chi_{33+}, \varphi_{32+}$
	35	0	$1848_2 = \chi_{36,0}, \varphi_{35,0}$
	$36 = \overline{35}$	0	$1848_3 = \chi_{36,1}, \varphi_{35,1}$
	37	0	$3960_1 = \chi_{37+}, \varphi_{36+}$

Block 1:	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{7,0}$	$\varphi_{7,1}$	$\varphi_{14,0}$	$\varphi_{14,1}$	$\varphi_{15,0}$	$\varphi_{15,1}$	$\varphi_{21,0}$	$\varphi_{21,1}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	.	1	.	.	.	.	.	.	.	.
$175_1 = \chi_{7,0}$	1	.	1	.	.	.	.	.	.	.
$175_2 = \chi_{7,1}$	.	1	.	1	.	.	.	.	.	.
$1792_1 = \chi_{14+}$	.	.	.	.	.	.	1	1	.	.
$1750_1 = \chi_{19,0}$	.	.	.	.	1	.	1	.	.	.
$1750_2 = \chi_{19,1}$	.	.	.	.	.	1	.	1	.	.
$2520_1 = \chi_{22,0}$	.	.	.	1	.	.	.	.	1	.
$2520_2 = \chi_{22,1}$	.	.	1	.	.	.	.	.	.	1
$3200_1 = \chi_{24,0}$	.	.	.	.	1	.	.	.	1	.
$3200_2 = \chi_{24,1}$	.	.	.	.	.	1	.	.	.	1

$$\begin{array}{ll}
 \varphi_{1,0} & = 1_1 \\
 \varphi_{1,1} & = 1_2 \\
 \varphi_{7,0} & = 174_1 \\
 \varphi_{7,1} & = 174_2 \\
 \varphi_{14,0} & = 854_1 \\
 \varphi_{14,1} & = 854_2 \\
 \varphi_{15,0} & = 896_1 \\
 \varphi_{15,1} & = 896_2 \\
 \varphi_{21,0} & = 2346_1 \\
 \varphi_{21,1} & = 2346_2
 \end{array}$$

Block 30:	$\varphi_{23,0}$	$\varphi_{23,1}$	$\varphi_{26,0}$	$\varphi_{26,1}$	$\varphi_{29,0}$	$\varphi_{29,1}$	$\varphi_{34,0}$	$\varphi_{34,1}$	$\varphi_{38,0}$	$\varphi_{38,1}$
$56_1 = \chi_{25,0}$	1	.	.	.	.	.	.	.	.	.
$56_2 = \chi_{25,1}$	.	1	.	.	.	.	.	.	.	.
$1000_1 = \chi_{32,0}$	.	.	1	.	.	1	.	.	.	.
$1000_2 = \chi_{32,1}$	.	.	.	1	1	.	.	.	.	.
$1792_2 = \chi_{35,0}$	.	.	.	.	.	.	1	.	.	.
$1792_3 = \chi_{35,1}$	.	.	.	.	.	.	.	1	.	.
$4608_1 = \chi_{39+}$	1	1	.	.	.	.	.	.	1	1
$2520_3 = \chi_{41,0}$	.	.	.	.	.	1	1	.	.	.
$2520_4 = \chi_{41,1}$	.	.	.	.	1	.	.	1	.	.
$2520_5 = \chi_{42,0}$	.	.	.	1	.	.	.	.	1	.
$2520_6 = \chi_{42,1}$	.	.	1	.	.	.	.	.	.	1

$$\begin{array}{ll}
\varphi_{23,0} & = 56_1 \\
\varphi_{23,1} & = 56_2 \\
\varphi_{26,0} & = 272_1 \\
\varphi_{26,1} & = 272_2 \\
\varphi_{29,0} & = 728_1 \\
\varphi_{29,1} & = 728_2 \\
\varphi_{34,0} & = 1792_1 \\
\varphi_{34,1} & = 1792_2 \\
\varphi_{38,0} & = 2248_1 \\
\varphi_{38,1} & = 2248_2
\end{array}$$