

$S_{11} \pmod{3}$

	blocks	defect	matrix
$G :$	1	4	22×10
	2	4	22×10
	3	2	9×5
	4	1	3×2
$2.G :$	5	4	12×3
	6	2	6×4

Block 1:	$\varphi_{1,0}$	$\varphi_{2,1}$	$\varphi_{3,1}$	$\varphi_{5,0}$	$\varphi_{6,0}$	$\varphi_{9,1}$	$\varphi_{10,1}$	$\varphi_{11,0}$	$\varphi_{14,1}$	$\varphi_{15,0}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.
$10_2 = \chi_{2,1}$	.	1	.	.	.	.	.	.	.	.
$44_2 = \chi_{3,1}$	.	1	1	.	.	.	.	.	.	.
$110_1 = \chi_{5,0}$	1	.	.	1	.	.	.	.	.	.
$120_1 = \chi_{6,0}$	.	.	.	.	1	.	.	.	.	.
$132_2 = \chi_{9,1}$	1	.	.	.	.	1	.	.	.	.
$165_2 = \chi_{10,1}$	.	.	1	.	.	1	.	.	.	.
$210_2 = \chi_{11,1}$	.	.	.	.	.	.	1	.	.	.
$231_1 = \chi_{12,0}$	2	.	.	1	1	.	.	.	.	.
$330_1 = \chi_{13,0}$	.	1	.	.	.	.	.	1	.	.
$385_2 = \chi_{14,1}$	.	1	1	.	.	1	1	.	.	.
$462_2 = \chi_{15,1}$	1	.	.	.	1	1	1	.	.	.
$550_1 = \chi_{16,0}$	1	.	.	1	1	.	.	1	.	.
$660_1 = \chi_{20,0}$	.	1	.	.	1	.	1	1	.	.
$825_1 = \chi_{22,0}$	2	.	.	1	.	.	.	.	1	.
$924_2 = \chi_{23,1}$	.	.	.	.	.	.	1	.	1	.
$1100_2 = \chi_{26,1}$	1	1	1	.	.	1	1	.	1	.
$1155_1 = \chi_{27,0}$	.	1	1	.	.	.	.	1	.	1
$1232_1 = \chi_{28,0}$	1	.	.	.	1	.	.	1	.	1
$1320_2 = \chi_{29,1}$	2	.	1	1	1	1	1	.	1	.
$1540_1 = \chi_{30,0}$	1	.	1	.	.	.	.	.	1	1
$2310_1 = \chi_{31,0}$	2	1	1	1	1	.	1	1	1	1

$$\begin{array}{ll}
\varphi_{1,0} &= 1_1 \\
\varphi_{2,1} &= 10_2 \\
\varphi_{3,1} &= 34_2 \\
\varphi_{5,0} &= 109_1 \\
\varphi_{6,0} &= 120_1 \\
\varphi_{9,1} &= 131_2 \\
\varphi_{10,1} &= 210_2 \\
\varphi_{11,0} &= 320_1 \\
\varphi_{14,1} &= 714_2 \\
\varphi_{15,0} &= 791_1
\end{array}$$

Block 2:	$\varphi_{1,1}$	$\varphi_{2,0}$	$\varphi_{3,0}$	$\varphi_{5,1}$	$\varphi_{6,1}$	$\varphi_{9,0}$	$\varphi_{10,0}$	$\varphi_{11,1}$	$\varphi_{14,0}$	$\varphi_{15,1}$
$1_2 = \chi_{1,1}$	1	.	.	.	.	.	.	.	.	.
$10_1 = \chi_{2,0}$	.	1	.	.	.	.	.	.	.	.
$44_1 = \chi_{3,0}$	.	1	1	.	.	.	.	.	.	.
$110_2 = \chi_{5,1}$	1	.	.	1	.	.	.	.	.	.
$120_2 = \chi_{6,1}$	.	.	.	.	1	.	.	.	.	.
$132_1 = \chi_{9,0}$	1	.	.	.	.	1	.	.	.	.
$165_1 = \chi_{10,0}$	.	.	1	.	.	1	.	.	.	.
$210_1 = \chi_{11,0}$	.	.	.	.	.	.	1	.	.	.
$231_2 = \chi_{12,1}$	2	.	.	1	1	.	.	.	.	.
$330_2 = \chi_{13,1}$	.	1	.	.	.	.	.	1	.	.
$385_1 = \chi_{14,0}$	.	1	1	.	.	1	1	.	.	.
$462_1 = \chi_{15,0}$	1	.	.	.	1	1	1	.	.	.
$550_2 = \chi_{16,1}$	1	.	.	1	1	.	.	1	.	.
$660_2 = \chi_{20,1}$	.	1	.	.	1	.	1	1	.	.
$825_2 = \chi_{22,1}$	2	.	.	1	.	.	.	.	1	.
$924_1 = \chi_{23,0}$	.	.	.	.	.	.	1	.	1	.
$1100_1 = \chi_{26,0}$	1	1	1	.	.	1	1	.	1	.
$1155_2 = \chi_{27,1}$	.	1	1	.	.	.	.	1	.	1
$1232_2 = \chi_{28,1}$	1	.	.	.	1	.	.	1	.	1
$1320_1 = \chi_{29,0}$	2	.	1	1	1	1	1	.	1	.
$1540_2 = \chi_{30,1}$	1	.	1	.	.	.	.	.	1	1
$2310_2 = \chi_{31,1}$	2	1	1	1	1	.	1	1	1	1

$$\begin{array}{ll}
\varphi_{1,1} & = 1_2 \\
\varphi_{2,0} & = 10_1 \\
\varphi_{3,0} & = 34_1 \\
\varphi_{5,1} & = 109_2 \\
\varphi_{6,1} & = 120_2 \\
\varphi_{9,0} & = 131_1 \\
\varphi_{10,0} & = 210_1 \\
\varphi_{11,1} & = 320_2 \\
\varphi_{14,0} & = 714_1 \\
\varphi_{15,1} & = 791_2
\end{array}$$

Block 3:	$\varphi_{4,0}$	$\varphi_{4,1}$	φ_{7+}	$\varphi_{13,0}$	$\varphi_{13,1}$	
$45_1 = \chi_{4,0}$	1	.	.	.	.	
$45_2 = \chi_{4,1}$	.	1	.	.	.	$\varphi_{4,0} = 45_1$
$252_1 = \chi_{7+}$	.	.	1	.	.	$\varphi_{4,1} = 45_2$
$693_1 = \chi_{21,0}$	.	.	.	1	.	$\varphi_{7+} = 252_1$
$693_2 = \chi_{21,1}$	.	.	.	.	1	$\varphi_{13,0} = 693_1$
$990_1 = \chi_{24,0}$	1	.	1	1	.	$\varphi_{13,1} = 693_2$
$990_2 = \chi_{24,1}$	.	1	1	.	1	
$990_3 = \chi_{25,0}$	.	1	1	1	.	
$990_4 = \chi_{25,1}$	1	.	1	.	1	

Block 4:	$\varphi_{12,0}$	$\varphi_{12,1}$		
$594_1 = \chi_{17,0}$	1	.	$\varphi_{12,0} =$	594_1
$594_2 = \chi_{17,1}$	.	1	$\varphi_{12,1} =$	594_2
$1188_1 = \chi_{18+}$	1	1		

Block 5:	φ_{16+}	φ_{19+}	φ_{21+}		
$32_1 = \chi_{32+}$	1	.	.		
$528_1 = \chi_{35,0}$	.	1	.		
$528_2 = \chi_{35,1}$	.	1	.		
$560_1 = \chi_{36,0}$	1	1	.		
$560_2 = \chi_{36,1}$	1	1	.	$\varphi_{16+} =$	32_1
$1232_3 = \chi_{37+}$	2	1	1	$\varphi_{19+} =$	528_1
$672_1 = \chi_{39,0}$	1	.	1	$\varphi_{21+} =$	640_1
$672_2 = \chi_{39,1}$	1	.	1		
$1760_1 = \chi_{40+}$	2	2	1		
$1200_1 = \chi_{42,0}$	1	1	1		
$1200_2 = \chi_{42,1}$	1	1	1		
$2464_1 = \chi_{43+}$	4	2	2		

Block 6:	$\varphi_{18,0}$	$\varphi_{18,1}$	$\varphi_{23,0}$	$\varphi_{23,1}$		
$144_1 = \chi_{34,0}$	1	.	.	.	$\varphi_{18,0} =$	144_1
$144_2 = \chi_{34,1}$	.	1	.	.	$\varphi_{18,1} =$	144_2
$1440_1 = \chi_{45,0}$	.	.	1	.	$\varphi_{23,0} =$	1440_1
$1440_2 = \chi_{45,1}$	.	.	.	1	$\varphi_{23,1} =$	1440_2
$3168_1 = \chi_{46+}$	1	1	1	1		
$3168_2 = \chi_{48+}$	1	1	1	1		