

$S_{11} \pmod{5}$

	blocks	defect	matrix
$G :$	1	2	20×14
	2	1	5×4
	3	1	5×4
	4	1	5×4
	5	1	5×4
	6	1	5×4
	7	1	5×4
	8	0	$550_1 = \chi_{16,0}, \varphi_{19,0}$
	9	0	$550_2 = \chi_{16,1}, \varphi_{19,1}$

	blocks	defect	matrix
	10	0	$825_1 = \chi_{22,0}, \varphi_{21,0}$
	11	0	$825_2 = \chi_{22,1}, \varphi_{21,1}$
	12	0	$1100_1 = \chi_{26,0}, \varphi_{24,0}$
	13	0	$1100_2 = \chi_{26,1}, \varphi_{24,1}$
$2.G :$	14	2	11×5
	15	1	5×4
	16	0	$1200_1 = \chi_{42,0}, \varphi_{38,0}$
	17	0	$1200_2 = \chi_{42,1}, \varphi_{38,1}$

Block 1:	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{3,0}$	$\varphi_{3,1}$	$\varphi_{6,0}$	$\varphi_{6,1}$	φ_{9+}	φ_{11+}	$\varphi_{13,0}$	$\varphi_{13,1}$	$\varphi_{16,0}$	$\varphi_{16,1}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	.	1	.	.	.	.	.	.	.	.	.	.
$44_1 = \chi_{3,0}$	1	.	1	.	.	.	.	.	.	.	.	.
$44_2 = \chi_{3,1}$	.	1	.	1	.	.	.	.	.	.	.	.
$252_1 = \chi_{7+}$	.	.	.	.	.	.	1	.	.	.	.	.
$132_1 = \chi_{9,0}$	.	.	1	.	1	.	.	.	.	.	.	.
$132_2 = \chi_{9,1}$	.	.	.	1	.	1	.	.	.	.	.	.
$231_1 = \chi_{12,0}$	.	.	1	.	.	.	.	.	1	.	.	.
$231_2 = \chi_{12,1}$	.	.	.	1	.	.	.	.	.	1	.	.
$462_1 = \chi_{15,0}$	1	.	.	.	.	1	.	.	.	.	1	.
$462_2 = \chi_{15,1}$	.	1	.	.	1	.	.	.	.	.	.	1
$594_1 = \chi_{17,0}$	.	.	.	.	.	.	.	.	1	.	.	.
$594_2 = \chi_{17,1}$	.	.	.	.	.	.	.	.	.	1	.	.
$1188_1 = \chi_{18+}$	.	.	.	.	1	1	.	1	.	.	1	1
$693_1 = \chi_{21,0}$	1	.	1	.	1	.	.	.	1	.	1	.
$693_2 = \chi_{21,1}$	.	1	.	1	.	1	.	.	.	1	.	1
$924_1 = \chi_{23,0}$	.	.	.	.	.	.	1	1	.	.	.	.
$924_2 = \chi_{23,1}$	.	.	.	.	.	.	1	1	.	.	.	.
$1232_1 = \chi_{28,0}$	.	.	.	.	.	.	.	1	1	.	1	.
$1232_2 = \chi_{28,1}$	.	.	.	.	.	.	.	1	.	1	.	1

(Block 1:)	$\varphi_{18,0}$	$\varphi_{18,1}$		
$1_1 = \chi_{1,0}$	.	.		
$1_2 = \chi_{1,1}$	.	.		
$44_1 = \chi_{3,0}$	.	.	$\varphi_{1,0} =$	1_1
$44_2 = \chi_{3,1}$	.	.	$\varphi_{1,1} =$	1_2
$252_1 = \chi_{7+}$	.	.	$\varphi_{3,0} =$	43_1
$132_1 = \chi_{9,0}$	.	.	$\varphi_{3,1} =$	43_2
$132_2 = \chi_{9,1}$	.	.	$\varphi_{6,0} =$	89_1
$231_1 = \chi_{12,0}$	.	.	$\varphi_{6,1} =$	89_2
$231_2 = \chi_{12,1}$	.	.	$\varphi_{9+} =$	252_1
$462_1 = \chi_{15,0}$	.	.	$\varphi_{11+} =$	266_1
$462_2 = \chi_{15,1}$	.	.	$\varphi_{13,0} =$	188_1
$594_1 = \chi_{17,0}$	1	.	$\varphi_{13,1} =$	188_2
$594_2 = \chi_{17,1}$	.	1	$\varphi_{16,0} =$	372_1
$1188_1 = \chi_{18+}$	.	.	$\varphi_{16,1} =$	372_2
$693_1 = \chi_{21,0}$	.	.	$\varphi_{18,0} =$	406_1
$693_2 = \chi_{21,1}$	.	.	$\varphi_{18,1} =$	406_2
$924_1 = \chi_{23,0}$	1	.		
$924_2 = \chi_{23,1}$	.	1		
$1232_1 = \chi_{28,0}$	1	.		
$1232_2 = \chi_{28,1}$	.	1		

Block 2:	$\varphi_{2,0}$	$\varphi_{14,1}$	$\varphi_{22,0}$	$\varphi_{25,0}$		
$10_1 = \chi_{2,0}$	1	.	.	.	$\varphi_{2,0} =$	10_1
$210_2 = \chi_{11,1}$	.	1	.	.	$\varphi_{14,1} =$	210_2
$990_3 = \chi_{25,0}$	1	.	1	.	$\varphi_{22,0} =$	980_1
$1540_2 = \chi_{30,1}$	.	1	.	1	$\varphi_{25,0} =$	1330_1
$2310_1 = \chi_{31,0}$	.	.	1	1		

Block 3:	$\varphi_{2,1}$	$\varphi_{14,0}$	$\varphi_{22,1}$	$\varphi_{25,1}$		
$10_2 = \chi_{2,1}$	1	.	.	.	$\varphi_{2,1} =$	10_2
$210_1 = \chi_{11,0}$	.	1	.	.	$\varphi_{14,0} =$	210_1
$990_4 = \chi_{25,1}$	1	.	1	.	$\varphi_{22,1} =$	980_2
$1540_1 = \chi_{30,0}$	.	1	.	1	$\varphi_{25,1} =$	1330_2
$2310_2 = \chi_{31,1}$	.	.	1	1		

Block 4:	$\varphi_{4,0}$	$\varphi_{8,1}$	$\varphi_{15,0}$	$\varphi_{23,1}$
$45_1 = \chi_{4,0}$	1	.	.	.
$120_2 = \chi_{6,1}$	.	1	.	.
$330_1 = \chi_{13,0}$	1	.	1	.
$1155_2 = \chi_{27,1}$	.	1	.	1
$1320_2 = \chi_{29,1}$	.	.	1	1

$$\begin{aligned}
\varphi_{4,0} &= 45_1 \\
\varphi_{8,1} &= 120_2 \\
\varphi_{15,0} &= 285_1 \\
\varphi_{23,1} &= 1035_2
\end{aligned}$$

Block 5:	$\varphi_{4,1}$	$\varphi_{8,0}$	$\varphi_{15,1}$	$\varphi_{23,0}$
$45_2 = \chi_{4,1}$	1	.	.	.
$120_1 = \chi_{6,0}$	.	1	.	.
$330_2 = \chi_{13,1}$	1	.	1	.
$1155_1 = \chi_{27,0}$	.	1	.	1
$1320_1 = \chi_{29,0}$	.	.	1	1

$$\begin{aligned}
\varphi_{4,1} &= 45_2 \\
\varphi_{8,0} &= 120_1 \\
\varphi_{15,1} &= 285_2 \\
\varphi_{23,0} &= 1035_1
\end{aligned}$$

Block 6:	$\varphi_{5,0}$	$\varphi_{7,0}$	$\varphi_{17,1}$	$\varphi_{20,1}$
$110_1 = \chi_{5,0}$	.	1	.	.
$165_1 = \chi_{10,0}$	1	1	.	.
$385_2 = \chi_{14,1}$	.	.	1	.
$660_2 = \chi_{20,1}$	1	.	.	1
$990_2 = \chi_{24,1}$	.	.	1	1

$$\begin{aligned}
\varphi_{5,0} &= 55_1 \\
\varphi_{7,0} &= 110_1 \\
\varphi_{17,1} &= 385_2 \\
\varphi_{20,1} &= 605_2
\end{aligned}$$

Block 7:	$\varphi_{5,1}$	$\varphi_{7,1}$	$\varphi_{17,0}$	$\varphi_{20,0}$
$110_2 = \chi_{5,1}$	.	1	.	.
$165_2 = \chi_{10,1}$	1	1	.	.
$385_1 = \chi_{14,0}$	.	.	1	.
$660_1 = \chi_{20,0}$	1	.	.	1
$990_1 = \chi_{24,0}$	.	.	1	1

$$\begin{aligned}
\varphi_{5,1} &= 55_2 \\
\varphi_{7,1} &= 110_2 \\
\varphi_{17,0} &= 385_1 \\
\varphi_{20,0} &= 605_1
\end{aligned}$$

Block 14:	φ_{26+}	φ_{28+}	φ_{30+}	φ_{33+}	φ_{36+}	
$32_1 = \chi_{32+}$	1	.	.	.	.	
$144_1 = \chi_{34,0}$	1	1	.	.	.	
$144_2 = \chi_{34,1}$	1	1	.	.	.	$\varphi_{26+} = 32_1$
$528_1 = \chi_{35,0}$	.	.	1	.	.	$\varphi_{28+} = 112_1$
$528_2 = \chi_{35,1}$	.	.	1	.	.	$\varphi_{30+} = 528_1$
$1232_3 = \chi_{37+}$	.	1	.	1	.	$\varphi_{33+} = 1120_1$
$672_1 = \chi_{39,0}$	1	1	1	.	.	$\varphi_{36+} = 1936_1$
$672_2 = \chi_{39,1}$	1	1	1	.	.	
$2464_1 = \chi_{43+}$	.	.	1	.	1	
$3168_1 = \chi_{46+}$	.	1	.	1	1	
$3168_2 = \chi_{48+}$	2	1	2	.	1	

Block 15:	$\varphi_{32,0}$	$\varphi_{32,1}$	$\varphi_{35,0}$	$\varphi_{35,1}$	
$560_1 = \chi_{36,0}$	1	.	.	.	$\varphi_{32,0} = 560_1$
$560_2 = \chi_{36,1}$	.	1	.	.	$\varphi_{32,1} = 560_2$
$1760_1 = \chi_{40+}$	.	.	1	1	$\varphi_{35,0} = 880_1$
$1440_1 = \chi_{45,0}$	1	.	1	.	$\varphi_{35,1} = 880_2$
$1440_2 = \chi_{45,1}$	.	1	.	1	