

$A_{11} \pmod{7}$

	blocks	defect	matrix		blocks	defect	matrix
$G :$	1	1	7×6		13	0	$1232_1 = \chi_{28}, \varphi_{25}$
	2	1	7×6		14	0	$1540_1 = \chi_{30}, \varphi_{26}$
	3	1	5×3		15	0	$2310_1 = \chi_{31}, \varphi_{27}$
	4	0	$126_1 = \chi_7, \varphi_7$	$2.G :$	16	1	7×6
	$5 = \bar{4}$	0	$126_2 = \chi_8, \varphi_8$		17	1	5×3
	6	0	$210_1 = \chi_{11}, \varphi_{12}$		18	0	$560_1 = \chi_{36}, \varphi_{32}$
	7	0	$231_1 = \chi_{12}, \varphi_{13}$		19	0	$616_1 = \chi_{37}, \varphi_{33}$
	8	0	$385_1 = \chi_{14}, \varphi_{14}$		20	0	$616_2 = \chi_{38}, \varphi_{34}$
	9	0	$462_1 = \chi_{15}, \varphi_{15}$		21	0	$672_1 = \chi_{39}, \varphi_{35}$
	10	0	$693_1 = \chi_{21}, \varphi_{21}$		22	0	$1232_2 = \chi_{43}, \varphi_{41}$
	11	0	$924_1 = \chi_{23}, \varphi_{23}$		23	0	$1232_3 = \chi_{44}, \varphi_{42}$
	12	0	$1155_1 = \chi_{27}, \varphi_{24}$				

Block 1:	φ_1	φ_6	φ_9	φ_{11}	φ_{16}	φ_{20}
$1_1 = \chi_1$	1	.	.	.	.	.
$120_1 = \chi_6$	.	1	.	.	.	.
$132_1 = \chi_9$	1	.	1	.	.	.
$330_1 = \chi_{13}$	.	.	1	1	.	.
$594_1 = \chi_{17}$	.	1	.	.	1	.
$825_1 = \chi_{22}$	.	.	.	1	.	1
$1100_1 = \chi_{26}$	.	.	.	.	1	1

$$\begin{aligned}
 \varphi_1 &= 1_1 \\
 \varphi_6 &= 120_1 \\
 \varphi_9 &= 131_1 \\
 \varphi_{11} &= 199_1 \\
 \varphi_{16} &= 474_1 \\
 \varphi_{20} &= 626_1
 \end{aligned}$$

Block 2:	φ_2	φ_4	φ_{10}	φ_{17}	φ_{18}	φ_{22}
$10_1 = \chi_2$	1	.	.	.	.	.
$45_1 = \chi_4$	.	1	.	.	.	.
$165_1 = \chi_{10}$	1	.	1	.	.	.
$550_1 = \chi_{16}$	.	1	.	.	1	.
$990_1 = \chi_{24}$	.	.	.	1	1	.
$990_2 = \chi_{25}$	.	.	1	.	.	1
$1320_1 = \chi_{29}$	.	.	.	1	.	1

$$\begin{aligned}
 \varphi_2 &= 10_1 \\
 \varphi_4 &= 45_1 \\
 \varphi_{10} &= 155_1 \\
 \varphi_{17} &= 485_1 \\
 \varphi_{18} &= 505_1 \\
 \varphi_{22} &= 835_1
 \end{aligned}$$

Block 3:	φ_3	φ_5	φ_{19}	
$44_1 = \chi_3$	1	.	.	$\varphi_3 = 44_1$
$110_1 = \chi_5$	1	1	.	$\varphi_5 = 66_1$
$594_2 = \chi_{18}$	.	.	1	$\varphi_{19} = 594_1$
$594_3 = \chi_{19}$	.	.	1	
$660_1 = \chi_{20}$	.	1	1	

Block 16:	φ_{28}	φ_{29}	φ_{36}	φ_{37}	φ_{38}	φ_{39}	
$16_1 = \chi_{32}$	1	.	.	.	.	.	$\varphi_{28} = 16_1$
$16_2 = \chi_{33}$	.	1	.	.	.	.	$\varphi_{29} = 16_2$
$880_1 = \chi_{40}$	.	.	.	.	1	.	$\varphi_{36} = 704_1$
$880_2 = \chi_{41}$	.	.	.	.	.	1	$\varphi_{37} = 704_2$
$1440_1 = \chi_{45}$	1	1	1	1	.	.	$\varphi_{38} = 880_1$
$1584_3 = \chi_{48}$	.	.	.	1	1	.	$\varphi_{39} = 880_2$
$1584_4 = \chi_{49}$	.	.	1	.	.	1	

Block 17:	φ_{30}	φ_{31}	φ_{40}	
$144_1 = \chi_{34}$	1	.	.	$\varphi_{30} = 144_1$
$528_1 = \chi_{35}$	.	1	.	$\varphi_{31} = 528_1$
$1200_1 = \chi_{42}$	1	.	1	$\varphi_{40} = 1056_1$
$1584_1 = \chi_{46}$	.	1	1	
$1584_2 = \chi_{47}$	.	1	1	