

$A_{12} \pmod{5}$

	blocks	defect	matrix
$G :$	1	2	20×14
	2	1	5×4
	3	1	4×2
	4	0	$275_1 = \chi_8, \varphi_9$
	5	1	5×4
	6	0	$1050_1 = \chi_{17}, \varphi_{18}$
	$7 = \overline{6}$	0	$1050_2 = \chi_{18}, \varphi_{19}$
	8	0	$1650_1 = \chi_{25}, \varphi_{25}$
	9	0	$1925_1 = \chi_{27}, \varphi_{26}$

	blocks	defect	matrix
	10	0	$1925_2 = \chi_{28}, \varphi_{27}$
	11	0	$3850_1 = \chi_{38}, \varphi_{31}$
	$12 = \overline{11}$	0	$3850_2 = \chi_{39}, \varphi_{32}$
	13	0	$5775_1 = \chi_{43}, \varphi_{33}$
$2.G :$	14	2	11×5
	15	1	5×4
	16	1	5×4
	17	0	$5600_1 = \chi_{62}, \varphi_{47}$

Block 1:	φ_1	φ_2	φ_3	φ_5	φ_6	φ_7	φ_{12}	φ_{13}	φ_{14}	φ_{15}	φ_{21}	φ_{23}	φ_{24}	φ_{28}
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	.	.	.	.	.	.
$11_1 = \chi_2$	.	1	.	.	.	.	.	.	.	.	.	.	.	.
$54_1 = \chi_3$	.	1	1	.	.	.	.	.	.	.	.	.	.	.
$132_1 = \chi_5$	.	.	1	1	.	.	.	.	.	.	.	.	.	.
$154_1 = \chi_6$	1	.	.	.	.	1	.	.	.	.	.	.	.	.
$297_1 = \chi_9$	.	.	.	.	1	1	.	.	.	.	.	.	.	.
$462_1 = \chi_{12}$	.	.	.	.	.	.	.	1	.	.	.	.	.	.
$462_2 = \chi_{13}$	1	.	.	1	.	.	1	.	.	.	.	.	.	.
$616_1 = \chi_{14}$	.	.	1	.	.	.	.	.	1	.	.	.	.	.
$891_1 = \chi_{15}$	.	.	.	.	.	1	.	.	.	1	.	.	.	.
$1408_1 = \chi_{23}$	1	.	.	.	1	1	1	.	.	1	.	.	.	.
$1728_1 = \chi_{26}$	.	.	.	.	.	.	.	1	.	.	1	.	.	.
$2079_1 = \chi_{29}$	.	.	.	.	.	.	.	.	1	.	.	1	.	.
$2112_1 = \chi_{30}$	.	1	.	.	1	.	.	.	.	.	.	.	.	1
$2376_1 = \chi_{31}$	.	.	.	.	.	.	1	.	.	1	1	.	.	.
$2673_1 = \chi_{32}$	.	1	1	1	.	.	.	.	1	.	.	.	.	1
$3564_1 = \chi_{36}$	.	.	.	.	.	.	.	1	.	.	.	1	1	.
$3696_1 = \chi_{37}$	.	.	.	.	.	.	1	1	.	.	1	.	1	.
$4158_1 = \chi_{40}$	.	.	.	1	1	.	1	.	.	.	.	.	1	1
$5632_1 = \chi_{42}$	.	.	.	.	.	.	.	.	1	.	.	1	1	1

$$\begin{array}{ll}
 \varphi_1 & = 1_1 \\
 \varphi_2 & = 11_1 \\
 \varphi_3 & = 43_1 \\
 \varphi_5 & = 89_1 \\
 \varphi_6 & = 144_1 \\
 \varphi_7 & = 153_1 \\
 \varphi_{12} & = 372_1 \\
 \varphi_{13} & = 462_1 \\
 \varphi_{14} & = 573_1 \\
 \varphi_{15} & = 738_1 \\
 \varphi_{21} & = 1266_1 \\
 \varphi_{23} & = 1506_1 \\
 \varphi_{24} & = 1596_1 \\
 \varphi_{28} & = 1957_1
 \end{array}$$

Block 2:	φ_4	φ_{11}	φ_{20}	φ_{30}	
$55_1 = \chi_4$	1	.	.	.	$\varphi_4 = 55_1$
$330_1 = \chi_{11}$	.	1	.	.	$\varphi_{11} = 330_1$
$1320_1 = \chi_{20}$	1	.	1	.	$\varphi_{20} = 1265_1$
$3520_1 = \chi_{35}$	.	1	.	1	$\varphi_{30} = 3190_1$
$4455_1 = \chi_{41}$	.	.	1	1	

Block 3:	φ_8	φ_{22}	
$165_1 = \chi_7$	1	.	$\varphi_8 = 165_1$
$1320_2 = \chi_{21}$	.	1	$\varphi_{22} = 1320_1$
$1320_3 = \chi_{22}$	.	1	
$1485_1 = \chi_{24}$	1	1	

Block 5:	φ_{10}	φ_{16}	φ_{17}	φ_{29}	
$320_1 = \chi_{10}$	1	.	.	.	$\varphi_{10} = 320_1$
$945_1 = \chi_{16}$	.	.	1	.	$\varphi_{16} = 835_1$
$1155_1 = \chi_{19}$	1	1	.	.	$\varphi_{17} = 945_1$
$2970_1 = \chi_{33}$	.	1	.	1	$\varphi_{29} = 2135_1$
$3080_1 = \chi_{34}$	.	.	1	1	

Block 14:	φ_{34}	φ_{37}	φ_{40}	φ_{41}	φ_{46}	
$32_1 = \chi_{44}$	1	.	.	.	.	
$704_1 = \chi_{47}$	1	1	.	.	.	
$704_2 = \chi_{48}$	1	1	.	.	.	$\varphi_{34} = 32_1$
$1408_2 = \chi_{49}$	.	.	.	1	.	$\varphi_{37} = 672_1$
$1408_3 = \chi_{50}$	.	.	.	1	.	$\varphi_{40} = 1120_1$
$1792_1 = \chi_{56}$	.	1	1	.	.	$\varphi_{41} = 1408_1$
$2112_2 = \chi_{57}$	1	1	.	1	.	$\varphi_{46} = 4512_1$
$2112_3 = \chi_{58}$	1	1	.	1	.	
$5632_2 = \chi_{63}$	.	.	1	.	1	
$7392_1 = \chi_{64}$	2	.	.	2	1	
$7776_1 = \chi_{65}$	2	1	1	1	1	

Block 15:	φ_{35}	φ_{36}	φ_{44}	φ_{45}
$160_1 = \chi_{45}$	1	.	.	.
$160_2 = \chi_{46}$	.	1	.	.
$1760_4 = \chi_{54}$	.	.	1	.
$1760_5 = \chi_{55}$	.	.	.	1
$3840_1 = \chi_{61}$	1	1	1	1

$$\begin{aligned}
\varphi_{35} &= 160_1 \\
\varphi_{36} &= 160_2 \\
\varphi_{44} &= 1760_3 \\
\varphi_{45} &= 1760_4
\end{aligned}$$

Block 16:	φ_{38}	φ_{39}	φ_{42}	φ_{43}
$1760_1 = \chi_{51}$	1	1	.	.
$1760_2 = \chi_{52}$	.	.	1	.
$1760_3 = \chi_{53}$	.	.	.	1
$2640_1 = \chi_{59}$	.	1	.	1
$2640_2 = \chi_{60}$	1	.	1	.

$$\begin{aligned}
\varphi_{38} &= 880_1 \\
\varphi_{39} &= 880_2 \\
\varphi_{42} &= 1760_1 \\
\varphi_{43} &= 1760_2
\end{aligned}$$