

$$A_{12} \pmod{2}$$

	blocks	defect	matrix
2.G :	1	10	54×14
	2	4	9×3
	3	1	2×1

Block 1:	φ_1	φ_2	φ_3	φ_4	φ_5	φ_6	φ_7	φ_8	φ_9	φ_{11}	φ_{12}	φ_{13}	φ_{14}	φ_{15}
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	.	.	.	.	.	.
$11_1 = \chi_2$	1	1	.	.	.	.	.	.	.	.	.	.	.	.
$54_1 = \chi_3$	.	1	.	.	1	.	.	.	.	.	.	.	.	.
$55_1 = \chi_4$	1	1	.	.	1	.	.	.	.	.	.	.	.	.
$132_1 = \chi_5$	.	.	1	1	.	1	.	.	.	.	.	.	.	.
$154_1 = \chi_6$	.	1	.	.	1	1	.	.	.	.	.	.	.	.
$165_1 = \chi_7$	1	2	.	.	1	1	.	.	.	.	.	.	.	.
$275_1 = \chi_8$	1	1	.	.	.	1	.	.	1	.	.	.	.	.
$297_1 = \chi_9$	1	.	1	1	.	1	.	.	1	.	.	.	.	.
$330_1 = \chi_{11}$	2	2	.	.	1	1	.	.	1	.	.	.	.	.
$462_1 = \chi_{12}$	2	2	1	1	1	2	.	.	1	.	.	.	.	.
$462_2 = \chi_{13}$	2	.	.	.	1	.	.	.	.	1	.	.	.	.
$616_1 = \chi_{14}$	2	.	.	.	1	.	.	.	.	.	1	.	.	.
$891_1 = \chi_{15}$	3	1	.	.	1	1	.	.	1	.	1	.	.	.
$945_1 = \chi_{16}$	3	2	.	.	2	1	.	.	1	.	1	.	.	.
$1050_1 = \chi_{17}$	2	1	1	.	1	1	.	1	1	.	1	.	.	.
$1050_2 = \chi_{18}$	2	1	.	1	1	1	1	.	1	.	1	.	.	.
$1155_1 = \chi_{19}$	1	.	1	1	.	1	1	1	1	.	1	.	.	.
$1320_1 = \chi_{20}$	2	.	.	.	1	.	1	1	.	1	1	.	.	.
$1320_2 = \chi_{21}$	.	2	1	.	.	1	.	.	.	.	.	.	1	.
$1320_3 = \chi_{22}$	.	2	.	1	.	1	.	.	.	.	.	.	.	1
$1485_1 = \chi_{24}$	3	.	.	.	1	.	1	1	1	1	1	.	.	.
$1650_1 = \chi_{25}$	2	1	1	1	1	1	.	.	.	1	.	1	.	.
$1925_1 = \chi_{27}$	3	1	1	1	.	1	.	.	1	.	1	1	.	.
$1925_2 = \chi_{28}$	3	2	1	1	1	2	.	.	1	1	.	1	.	.
$2079_1 = \chi_{29}$	3	2	1	1	1	2	.	.	1	.	1	1	.	.
$2376_1 = \chi_{31}$	4	2	2	2	1	3	.	.	2	.	1	1	.	.
$2673_1 = \chi_{32}$	3	1	1	1	1	1	1	1	1	1	1	1	.	.
$2970_1 = \chi_{33}$	2	4	.	.	1	1	.	.	.	1	.	.	1	1
$3080_1 = \chi_{34}$	4	2	2	2	1	3	1	1	2	1	1	1	.	.
$3564_1 = \chi_{36}$	6	2	1	1	2	2	1	1	2	1	2	1	.	.
$3696_1 = \chi_{37}$	6	2	2	2	2	3	1	1	2	1	2	1	.	.
$3850_1 = \chi_{38}$	4	3	1	2	1	2	1	.	1	1	1	1	.	1
$3850_2 = \chi_{39}$	4	3	2	1	1	2	.	1	1	1	1	1	1	.
$4158_1 = \chi_{40}$	2	5	1	1	1	2	.	.	.	1	.	1	1	1
$4455_1 = \chi_{41}$	3	5	2	2	1	3	.	.	1	1	.	1	1	1
$5775_1 = \chi_{43}$	5	5	2	2	2	3	1	1	1	2	1	1	1	1
$32_1 = \chi_{44}$	.	.	1	1	.	.	.	.	.	.	.	.	.	.
$160_1 = \chi_{45}$	.	.	.	1	.	.	1	.	.	.	.	.	.	.
$160_2 = \chi_{46}$	.	.	1	.	.	.	.	1	.	.	.	.	.	.

(Block 1:)	φ_1	φ_2	φ_3	φ_4	φ_5	φ_6	φ_7	φ_8	φ_9	φ_{11}	φ_{12}	φ_{13}	φ_{14}	φ_{15}
$704_1 = \chi_{47}$	.	.	.	.	.	.	1	1	.	1	.	.	.	.
$704_2 = \chi_{48}$	.	.	.	.	.	.	1	1	.	1	.	.	.	.
$1760_1 = \chi_{51}$	4	.	.	.	.	.	1	1	2	.	2	.	.	.
$1760_2 = \chi_{52}$	.	.	1	.	.	.	.	1	.	1	.	.	1	.
$1760_3 = \chi_{53}$	.	.	.	1	.	.	1	.	.	1	.	.	.	1
$1760_4 = \chi_{54}$	2	2	2	2	.	3	.	.	2	.	.	1	.	.
$1760_5 = \chi_{55}$	2	2	2	2	.	3	.	.	2	.	.	1	.	.
$2112_2 = \chi_{57}$	4	4	.	1	2	2	.	.	1	1	.	.	.	1
$2112_3 = \chi_{58}$	4	4	1	.	2	2	.	.	1	1	.	.	1	.
$2640_1 = \chi_{59}$	.	4	1	1	.	2	.	.	.	.	.	.	1	1
$2640_2 = \chi_{60}$	.	4	1	1	.	2	.	.	.	.	.	.	1	1
$5600_1 = \chi_{62}$	4	4	2	2	.	2	.	.	.	2	.	2	1	1
$7392_1 = \chi_{64}$	12	4	4	4	4	6	2	2	4	2	4	2	.	.
$7776_1 = \chi_{65}$	8	8	2	2	4	4	1	1	2	2	2	2	1	1

$$\begin{aligned}
\varphi_1 &= 1_1 & \varphi_8 &= 144_2 \\
\varphi_2 &= 10_1 & \varphi_9 &= 164_1 \\
\varphi_3 &= 16_1 & \varphi_{11} &= 416_1 \\
\varphi_4 &= 16_2 & \varphi_{12} &= 570_1 \\
\varphi_5 &= 44_1 & \varphi_{13} &= 1046_1 \\
\varphi_6 &= 100_1 & \varphi_{14} &= 1184_1 \\
\varphi_7 &= 144_1 & \varphi_{15} &= 1184_2
\end{aligned}$$

Block 2:	φ_{10}	φ_{16}	φ_{17}	
$320_1 = \chi_{10}$	1	.	.	
$1408_1 = \chi_{23}$	.	1	.	
$1728_1 = \chi_{26}$	1	1	.	
$2112_1 = \chi_{30}$	1	.	1	$\varphi_{10} = 320_1$
$3520_1 = \chi_{35}$	1	1	1	$\varphi_{16} = 1408_1$
$1408_2 = \chi_{49}$	.	1	.	$\varphi_{17} = 1792_1$
$1408_3 = \chi_{50}$	.	1	.	
$1792_1 = \chi_{56}$	.	.	1	
$3840_1 = \chi_{61}$	2	1	1	

Block 3:	φ_{18}	
$5632_1 = \chi_{42}$	1	$\varphi_{18} = 5632_1$
$5632_2 = \chi_{63}$	1	