

$$A_{13} \pmod{2}$$

	blocks	defect	matrix
2.G :	1	10	54×14
	2	8	28×7

Block 1:	φ_1	φ_3	φ_4	φ_5	φ_6	φ_7	φ_9	φ_{10}	φ_{12}	φ_{13}	φ_{15}	φ_{16}	φ_{19}	φ_{20}
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	.	.	.	.	.	.
$65_1 = \chi_3$	1	.	.	1	.	.	.	.	.	.	.	.	.	.
$66_1 = \chi_4$	2	.	.	1	.	.	.	.	.	.	.	.	.	.
$429_1 = \chi_7$	1	.	.	1	.	.	.	1	.	.	.	.	.	.
$429_2 = \chi_8$	1	.	.	1	.	.	1	.	.	.	.	.	.	.
$429_3 = \chi_9$	1	1	1	.	.	.	1	.	.	.	.	.	.	.
$462_1 = \chi_{10}$	2	.	1	1	.	.	1	.	.	.	.	.	.	.
$462_2 = \chi_{11}$	2	1	.	1	.	.	1	.	.	.	.	.	.	.
$495_1 = \chi_{12}$	3	.	.	2	.	.	1	.	.	.	.	.	.	.
$936_1 = \chi_{15}$	2	.	.	.	.	.	.	1	1	.	.	.	.	.
$1287_1 = \chi_{16}$	1	1	1	.	1	1	1	.	1	.	.	.	.	.
$1365_1 = \chi_{17}$	3	.	.	1	.	.	1	1	1	.	.	.	.	.
$1430_1 = \chi_{18}$	4	.	.	2	.	.	1	1	1	.	.	.	.	.
$2574_1 = \chi_{19}$	4	.	.	1	.	.	1	.	1	1	.	.	.	.
$2574_2 = \chi_{20}$	2	.	.	.	.	.	.	1	.	.	1	.	.	.
$2860_1 = \chi_{21}$	2	1	1	.	1	1	1	.	1	1	.	.	.	.
$3003_1 = \chi_{22}$	5	.	.	2	.	.	1	1	1	1	.	.	.	.
$3432_2 = \chi_{24}$	2	.	.	.	1	1	.	1	1	.	1	.	.	.
$3575_1 = \chi_{26}$	3	1	1	1	.	.	1	.	1	.	.	1	.	.
$4004_1 = \chi_{28}$	4	1	1	2	.	.	2	.	1	.	.	1	.	.
$4290_1 = \chi_{30}$	6	1	1	2	1	1	2	1	2	1	.	.	.	.
$4290_2 = \chi_{31}$	2	.	.	1	.	.	.	.	.	.	.	.	1	.
$4290_3 = \chi_{32}$	2	.	.	1	.	.	.	.	.	.	.	.	.	1
$5005_1 = \chi_{33}$	3	.	.	.	1	1	.	1	1	1	1	.	.	.
$6006_1 = \chi_{36}$	4	1	1	1	1	1	1	.	2	1	.	1	.	.
$6435_1 = \chi_{37}$	3	1	1	1	1	1	1	1	1	.	1	1	.	.
$6864_1 = \chi_{38}$	6	2	2	2	1	1	3	.	2	1	.	1	.	.
$7371_1 = \chi_{39}$	7	1	1	2	1	1	2	1	3	1	.	1	.	.
$7800_1 = \chi_{40}$	8	2	2	2	1	1	3	1	3	1	.	1	.	.
$8008_1 = \chi_{41}$	4	1	1	2	.	1	1	.	1	.	.	1	1	.
$8008_2 = \chi_{42}$	4	1	1	2	1	.	1	.	1	.	.	1	.	1
$9009_1 = \chi_{44}$	7	1	1	2	1	1	2	1	2	1	1	1	.	.
$10296_1 = \chi_{46}$	8	2	2	2	2	2	3	1	3	1	1	1	.	.
$11583_1 = \chi_{48}$	5	1	1	3	.	.	1	.	.	.	.	1	1	1
$12870_1 = \chi_{51}$	6	2	2	3	1	1	2	.	1	.	.	1	1	1
$15015_1 = \chi_{52}$	7	1	1	3	1	1	1	1	1	.	1	1	1	1
$21450_1 = \chi_{55}$	12	3	3	4	2	2	3	1	3	1	1	2	1	1
$32_1 = \chi_{56}$	.	1	.	.	.	.	.	.	.	.	.	.	.	.
$32_2 = \chi_{57}$	.	.	1	.	.	.	.	.	.	.	.	.	.	.
$352_1 = \chi_{58}$	.	1	1	.	1	1	.	.	.	.	.	.	.	.

(Block 1:)	φ_1	φ_3	φ_4	φ_5	φ_6	φ_7	φ_9	φ_{10}	φ_{12}	φ_{13}	φ_{15}	φ_{16}	φ_{19}	φ_{20}
$2496_1 = \chi_{60}$	.	.	.	.	1	1	.	.	.	.	1	.	.	.
$2496_2 = \chi_{61}$	.	.	.	.	1	1	.	.	.	.	1	.	.	.
$4576_1 = \chi_{63}$	4	.	.	.	1	1	.	.	2	2	.	.	.	.
$8800_1 = \chi_{65}$	.	1	1	.	1	1	.	.	.	.	.	.	1	1
$9152_2 = \chi_{67}$	2	1	1	.	1	.	.	.	.	.	1	1	.	1
$9152_3 = \chi_{68}$	2	1	1	.	.	1	.	.	.	.	1	1	1	.
$9504_1 = \chi_{71}$	8	1	1	4	.	.	2	.	.	.	.	.	1	1
$11232_3 = \chi_{74}$	10	2	2	2	2	2	3	2	4	1	1	1	.	.
$11232_4 = \chi_{75}$	10	2	2	2	2	2	3	2	4	1	1	1	.	.
$13728_1 = \chi_{76}$	12	4	4	4	2	2	6	.	4	2	.	2	.	.
$13728_2 = \chi_{77}$	10	1	1	4	1	1	2	2	2	1	1	1	.	1
$13728_3 = \chi_{78}$	10	1	1	4	1	1	2	2	2	1	1	1	1	.
$16016_1 = \chi_{79}$	8	2	2	4	1	1	2	.	2	.	.	2	1	1
$16016_2 = \chi_{80}$	8	2	2	4	1	1	2	.	2	.	.	2	1	1

$$\begin{array}{ll}
\varphi_1 & = 1_1 \\
\varphi_3 & = 32_1 \\
\varphi_4 & = 32_2 \\
\varphi_5 & = 64_1 \\
\varphi_6 & = 144_1 \\
\varphi_7 & = 144_2 \\
\varphi_9 & = 364_1 \\
\varphi_{10} & = 364_2 \\
\varphi_{12} & = 570_1 \\
\varphi_{13} & = 1572_1 \\
\varphi_{15} & = 2208_1 \\
\varphi_{16} & = 2510_1 \\
\varphi_{19} & = 4224_1 \\
\varphi_{20} & = 4224_2
\end{array}$$

Block 2:	φ_2	φ_8	φ_{11}	φ_{14}	φ_{17}	φ_{18}	φ_{21}
$12_1 = \chi_2$	1	.	.	.	.	.	.
$208_1 = \chi_5$	.	1	.	.	.	.	.
$220_1 = \chi_6$	1	1	.	.	.	.	.
$572_1 = \chi_{13}$	1	.	1	.	.	.	.
$792_1 = \chi_{14}$	2	1	1	.	.	.	.
$3432_1 = \chi_{23}$	2	.	1	.	1	.	.
$3432_3 = \chi_{25}$	2	1	.	.	.	1	.
$3640_1 = \chi_{27}$	2	1	1	.	1	.	.
$4212_1 = \chi_{29}$	3	1	2	.	1	.	.
$5148_1 = \chi_{34}$	1	.	1	1	1	.	.
$5720_1 = \chi_{35}$	2	.	2	1	1	.	.
$8580_1 = \chi_{43}$	3	1	1	1	1	1	.
$9360_1 = \chi_{45}$	4	1	3	1	2	.	.
$11440_1 = \chi_{47}$	2	1	.	.	.	1	1
$12012_1 = \chi_{49}$	3	.	2	.	1	.	1
$12012_2 = \chi_{50}$	3	1	1	.	.	1	1
$17160_1 = \chi_{53}$	4	1	2	1	1	1	1
$20592_1 = \chi_{54}$	6	1	3	1	2	1	1
$1728_1 = \chi_{59}$	.	.	.	1	.	.	.
$4224_1 = \chi_{62}$	4	2	1	.	.	1	.
$4928_1 = \chi_{64}$	.	.	.	1	.	1	.
$9152_1 = \chi_{66}$	2	.	2	.	.	.	1
$9152_4 = \chi_{69}$	4	.	3	1	2	.	.
$9152_5 = \chi_{70}$	4	.	3	1	2	.	.
$11232_1 = \chi_{72}$	2	.	.	.	.	1	1
$11232_2 = \chi_{73}$	2	.	.	.	.	1	1
$20800_1 = \chi_{81}$	6	2	3	1	2	1	1
$20800_2 = \chi_{82}$	6	2	3	1	2	1	1

$$\begin{aligned}
\varphi_2 &= 12_1 \\
\varphi_8 &= 208_1 \\
\varphi_{11} &= 560_1 \\
\varphi_{14} &= 1728_1 \\
\varphi_{17} &= 2848_1 \\
\varphi_{18} &= 3200_1 \\
\varphi_{21} &= 8008_1
\end{aligned}$$