

$$S_6(3) \pmod{2}$$

	blocks	defect	matrix
2.G :	1	10	119×16
	2	4	14×3
	3	2	4×1
	4	1	2×1
	5	1	2×1

Block 1:	φ_1	φ_2	φ_3	φ_4	φ_5	φ_6	φ_7	φ_8	φ_9	φ_{10}	φ_{11}	φ_{12}	φ_{13}	φ_{14}	φ_{15}	φ_{16}
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$13_1 = \chi_2$	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$13_2 = \chi_3$	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.
$78_1 = \chi_4$	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.
$91_1 = \chi_5$	.	1	.	1	.	.	.	.	.	.	.	.	.	.	.	.
$91_2 = \chi_6$	.	.	1	1	.	.	.	.	.	.	.	.	.	.	.	.
$105_1 = \chi_7$	1	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.
$168_1 = \chi_8$	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.
$195_1 = \chi_9$	1	1	1	.	1	.	.	.	.	.	.	.	.	.	.	.
$273_1 = \chi_{10}$	.	1	.	.	.	.	1	.	.	.	.	.	.	.	.	.
$273_2 = \chi_{11}$	.	.	1	.	.	1	.	.	.	.	.	.	.	.	.	.
$455_1 = \chi_{12}$	1	2	.	.	1	.	1	.	.	.	.	.	.	.	.	.
$455_2 = \chi_{13}$	1	.	2	.	1	1	.	.	.	.	.	.	.	.	.	.
$546_1 = \chi_{14}$	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.
$546_2 = \chi_{15}$	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.
$728_1 = \chi_{16}$	.	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.
$728_2 = \chi_{17}$	.	.	.	.	.	.	.	.	.	.	1	.	.	.	.	.
$819_1 = \chi_{18}$	1	2	2	1	1	1	1	.	.	.	.	.	.	.	.	.
$1170_1 = \chi_{19}$	.	.	2	2	.	1	.	.	.	1	.	.	.	.	.	.
$1170_2 = \chi_{20}$	.	2	.	2	.	.	1	.	.	.	1	.	.	.	.	.
$1365_1 = \chi_{21}$	1	3	1	2	1	.	1	.	.	.	1	.	.	.	.	.
$1365_2 = \chi_{22}$	1	1	3	2	1	1	.	.	.	1	.	.	.	.	.	.
$1365_3 = \chi_{23}$	.	1	.	1	.	.	.	.	1	.	1	.	.	.	.	.
$1365_4 = \chi_{24}$	.	.	1	1	.	.	.	1	.	1	.	.	.	.	.	.
$1365_5 = \chi_{25}$	.	.	1	1	.	1	.	.	.	.	.	.	1	.	.	.
$1365_6 = \chi_{26}$	.	1	.	1	.	.	1	.	.	.	.	1	.	.	.	.
$1820_1 = \chi_{27}$	.	.	.	1	.	.	.	.	.	.	.	.	.	1	.	.
$1820_2 = \chi_{28}$	.	.	.	.	.	.	1	1	.	.	.	1	.	.	.	.
$1820_3 = \chi_{29}$	.	.	.	.	.	1	.	.	1	.	.	.	1	.	.	.
$2106_1 = \chi_{30}$	.	.	.	1	.	.	.	.	.	.	.	1	1	.	.	.
$2184_1 = \chi_{31}$	.	.	2	2	.	1	.	.	.	1	.	1	.	.	.	.
$2184_2 = \chi_{32}$	.	2	.	2	.	.	1	.	.	.	1	.	1	.	.	.
$2457_1 = \chi_{33}$	1	1	1	.	1	1	1	.	.	.	.	.	.	1	.	.
$2457_2 = \chi_{34}$	.	.	1	2	.	.	.	1	.	1	.	1	.	.	.	.
$2457_3 = \chi_{35}$	.	1	.	2	.	.	.	.	1	.	1	.	1	.	.	.
$2730_1 = \chi_{36}$	2	2	2	1	2	1	1	.	.	.	.	.	.	1	.	.
$2835_1 = \chi_{37}$	1	.	.	.	.	.	.	1	1	.	.	.	.	1	.	.
$3640_1 = \chi_{38}$	.	2	2	4	.	1	1	.	.	1	.	1	1	.	.	.
$3640_2 = \chi_{39}$	.	2	2	4	.	1	1	.	.	.	1	1	1	.	.	.
$4095_1 = \chi_{40}$	1	.	2	1	1	1	.	1	1	1	.	.	.	1	.	.

(Block 1:)	φ_1	φ_2	φ_3	φ_4	φ_5	φ_6	φ_7	φ_8	φ_9	φ_{10}	φ_{11}	φ_{12}	φ_{13}	φ_{14}	φ_{15}	φ_{16}
$4095_2 = \chi_{41}$	1	2	.	1	1	.	1	1	1	.	1	.	.	1	.	.
$4536_1 = \chi_{42}$	.	2	2	4	1	1	1	.	.	1	1	1	1	.	.	.
$5265_1 = \chi_{43}$	1	2	2	3	1	1	1	1	1	1	1	.	.	1	.	.
$5460_1 = \chi_{44}$	.	.	.	1	.	1	1	1	1	.	.	1	1	1	.	.
$5460_2 = \chi_{45}$	.	.	.	1	.	.	.	2	2	1	1	.	.	1	.	.
$5460_3 = \chi_{46}$	.	.	.	.	.	1	.	.	.	.	.	.	1	.	1	.
$5460_4 = \chi_{47}$	.	.	.	.	.	.	1	.	.	.	.	1	.	.	.	1
$6552_1 = \chi_{51}$	.	.	.	.	.	.	.	2	1	1	.	.	.	.	1	.
$6552_2 = \chi_{52}$	.	.	.	.	.	.	.	1	2	.	1	.	.	.	.	1
$7371_1 = \chi_{53}$	.	1	.	1	.	.	1	1	1	.	1	1	.	.	.	1
$7371_2 = \chi_{54}$	.	.	1	1	.	1	.	1	1	1	.	.	1	.	1	.
$8190_1 = \chi_{55}$	2	4	4	5	2	2	2	1	1	1	1	1	1	1	.	.
$9477_1 = \chi_{56}$	.	.	1	2	.	1	.	1	1	1	.	1	2	.	1	.
$9477_2 = \chi_{57}$	.	1	.	2	.	.	1	1	1	.	1	2	1	.	.	1
$10920_1 = \chi_{58}$	.	2	2	4	.	1	1	2	1	2	1	1	1	.	1	.
$10920_2 = \chi_{59}$	.	2	2	4	.	1	1	1	2	1	2	1	1	.	.	1
$12285_1 = \chi_{63}$	1	1	3	3	1	2	1	2	1	2	.	1	1	1	1	.
$12285_2 = \chi_{64}$	1	3	1	3	1	1	2	1	2	.	2	1	1	1	.	1
$14560_1 = \chi_{65}$	.	.	.	.	.	2	2	1	1	.	.	2	2	.	1	1
$14560_2 = \chi_{66}$	.	.	.	2	.	2	.	2	3	1	1	.	2	2	1	.
$14560_3 = \chi_{67}$	.	.	.	2	.	.	2	3	2	1	1	2	.	2	.	1
$16380_1 = \chi_{68}$	.	.	.	1	.	1	1	2	2	1	1	1	1	1	1	1
$19683_1 = \chi_{74}$	1	1	1	3	.	1	1	3	3	1	1	2	2	1	1	1
$14_1 = \chi_{75}$	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$14_2 = \chi_{76}$	1	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.
$182_1 = \chi_{77}$	.	1	1	2	.	.	.	.	.	.	.	.	.	.	.	.
$182_2 = \chi_{78}$	1	1	.	.	1	.	.	.	.	.	.	.	.	.	.	.
$182_3 = \chi_{79}$	1	.	1	.	1	.	.	.	.	.	.	.	.	.	.	.
$364_1 = \chi_{80}$	.	.	2	1	.	1	.	.	.	.	.	.	.	.	.	.
$364_2 = \chi_{81}$	.	2	.	1	.	.	1	.	.	.	.	.	.	.	.	.
$520_1 = \chi_{82}$	.	.	.	.	.	1	1	.	.	.	.	.	.	.	.	.
$546_3 = \chi_{83}$	1	1	2	1	1	1	.	.	.	.	.	.	.	.	.	.
$546_4 = \chi_{84}$	1	2	1	1	1	.	1	.	.	.	.	.	.	.	.	.
$910_1 = \chi_{85}$	.	1	1	2	.	.	.	.	.	1	.	.	.	.	.	.
$910_2 = \chi_{86}$	.	1	1	2	.	.	.	.	.	.	1	.	.	.	.	.
$1092_1 = \chi_{87}$	.	.	.	.	.	.	.	1	1	.	.	.	.	.	.	.
$1092_2 = \chi_{88}$	.	.	2	1	.	1	.	.	.	1	.	.	.	.	.	.
$1092_3 = \chi_{89}$	.	2	.	1	.	.	1	.	.	.	1	.	.	.	.	.
$1092_4 = \chi_{90}$	.	.	.	1	.	.	.	.	.	.	.	.	1	.	.	.
$1092_5 = \chi_{91}$	.	.	.	1	.	.	.	.	.	.	.	1	.	.	.	.

(Block 1:)	φ_1	φ_2	φ_3	φ_4	φ_5	φ_6	φ_7	φ_8	φ_9	φ_{10}	φ_{11}	φ_{12}	φ_{13}	φ_{14}	φ_{15}	φ_{16}
$1260_1 = \chi_{92}$	.	.	2	1	1	1	.	.	.	1	.	.	.	.	.	.
$1260_2 = \chi_{93}$	.	2	.	1	1	.	1	.	.	.	1	.	.	.	.	.
$1820_4 = \chi_{94}$	.	.	.	.	.	.	.	1	1	.	1	.	.	.	.	.
$1820_5 = \chi_{95}$	.	.	.	.	.	.	.	1	1	1	.	.	.	.	.	.
$2730_2 = \chi_{96}$	.	1	1	2	.	.	.	1	1	1	1	.	.	.	.	.
$2730_3 = \chi_{97}$	.	1	1	2	.	1	1	.	.	.	.	1	1	.	.	.
$2730_4 = \chi_{98}$	1	3	2	3	1	1	1	.	.	.	1	.	1	.	.	.
$2730_5 = \chi_{99}$	1	2	3	3	1	1	1	.	.	1	.	1	.	.	.	.
$2730_6 = \chi_{100}$	1	.	1	.	1	1	.	.	1	.	.	.	.	1	.	.
$2730_7 = \chi_{101}$	1	1	.	.	1	.	1	1	.	.	.	.	.	1	.	.
$3120_1 = \chi_{102}$	.	.	.	.	.	.	.	1	1	.	.	1	1	.	.	.
$3276_1 = \chi_{103}$	.	.	2	3	.	1	.	.	.	1	.	1	1	.	.	.
$3276_2 = \chi_{104}$	.	2	.	3	.	.	1	.	.	.	1	1	1	.	.	.
$3640_3 = \chi_{105}$	.	.	.	1	.	1	.	.	1	.	.	.	1	1	.	.
$3640_4 = \chi_{106}$	.	.	.	1	.	.	1	1	.	.	.	1	.	1	.	.
$4368_1 = \chi_{107}$	.	2	2	4	.	1	1	.	.	1	1	1	1	.	.	.
$4368_2 = \chi_{108}$	2	2	4	2	2	2	1	1	.	1	.	.	.	1	.	.
$4368_3 = \chi_{109}$	2	4	2	2	2	1	2	.	1	.	1	.	.	1	.	.
$4914_1 = \chi_{110}$	1	2	1	2	1	1	1	.	1	.	1	.	1	1	.	.
$4914_2 = \chi_{111}$	1	1	2	2	1	1	1	1	.	1	.	1	.	1	.	.
$5460_5 = \chi_{112}$	.	2	2	4	.	1	1	1	1	1	1	1	1	.	.	.
$5460_6 = \chi_{113}$	.	.	.	.	.	.	.	.	1	.	1	.	.	.	.	1
$5460_7 = \chi_{114}$	.	.	.	.	.	.	.	1	.	1	.	.	.	.	1	.
$7280_1 = \chi_{118}$	.	.	.	2	.	.	.	2	2	1	1	.	.	2	.	.
$7280_2 = \chi_{119}$	.	.	.	.	.	.	2	1	.	.	.	2	.	.	.	1
$7280_3 = \chi_{120}$	.	.	.	.	.	2	.	.	1	.	.	.	2	.	1	.
$8190_2 = \chi_{121}$	.	1	1	2	.	1	1	1	.	1	.	1	1	.	1	.
$8190_3 = \chi_{122}$	.	1	1	2	.	1	1	.	1	.	1	1	1	.	.	1
$9828_1 = \chi_{123}$	.	.	2	3	.	1	.	2	1	2	.	1	1	.	1	.
$9828_2 = \chi_{124}$	.	2	.	3	.	.	1	1	2	.	2	1	1	.	.	1
$10206_1 = \chi_{125}$	1	1	.	1	.	.	1	2	2	.	1	1	.	1	.	1
$10206_2 = \chi_{126}$	1	.	1	1	.	1	.	2	2	1	.	.	1	1	1	.
$10920_3 = \chi_{127}$	.	.	.	1	.	.	1	2	2	1	1	1	.	1	.	1
$10920_4 = \chi_{128}$	.	.	.	1	.	1	.	2	2	1	1	.	1	1	1	.
$14040_1 = \chi_{132}$	.	.	.	.	.	1	1	1	1	.	.	2	2	.	1	1
$14742_1 = \chi_{133}$	.	1	1	2	.	1	1	2	2	1	1	1	1	.	1	1
$14742_2 = \chi_{134}$	1	2	3	5	1	2	1	2	2	2	1	1	2	1	1	.
$14742_3 = \chi_{135}$	1	3	2	5	1	1	2	2	2	1	2	2	1	1	.	1
$21840_1 = \chi_{141}$	.	.	.	2	.	2	2	3	3	1	1	2	2	2	1	1

$$\begin{array}{ll}
\varphi_1 = 1_1 & \varphi_9 = 546_2 \\
\varphi_2 = 13_1 & \varphi_{10} = 728_1 \\
\varphi_3 = 13_2 & \varphi_{11} = 728_2 \\
\varphi_4 = 78_1 & \varphi_{12} = 1014_1 \\
\varphi_5 = 168_1 & \varphi_{13} = 1014_2 \\
\varphi_6 = 260_1 & \varphi_{14} = 1742_1 \\
\varphi_7 = 260_2 & \varphi_{15} = 4186_1 \\
\varphi_8 = 546_1 & \varphi_{16} = 4186_2
\end{array}$$

Block 2:	φ_{17}	φ_{18}	φ_{19}	
$5824_1 = \chi_{48}$	1	.	.	
$5824_2 = \chi_{49}$	.	1	.	
$5824_3 = \chi_{50}$	.	.	1	
$11648_1 = \chi_{60}$	.	1	1	
$11648_2 = \chi_{61}$	1	1	.	
$11648_3 = \chi_{62}$	1	.	1	$\varphi_{17} = 5824_1$
$17472_1 = \chi_{71}$	1	1	1	$\varphi_{18} = 5824_2$
$5824_4 = \chi_{115}$	1	.	.	$\varphi_{19} = 5824_3$
$5824_5 = \chi_{116}$	.	1	.	
$5824_6 = \chi_{117}$	.	.	1	
$11648_4 = \chi_{129}$	.	1	1	
$11648_5 = \chi_{130}$	1	.	1	
$11648_6 = \chi_{131}$	1	1	.	
$17472_2 = \chi_{138}$	1	1	1	

Block 3:	φ_{20}	
$16640_1 = \chi_{69}$	1	
$16640_2 = \chi_{70}$	1	$\varphi_{20} = 16640_1$
$16640_3 = \chi_{136}$	1	
$16640_4 = \chi_{137}$	1	

Block 4:	φ_{21}	
$17920_1 = \chi_{72}$	1	$\varphi_{21} = 17920_1$
$17920_3 = \chi_{139}$	1	

Block 5:	φ_{22}
$17920_2 = \chi_{73}$	1
$17920_4 = \chi_{140}$	1

$$\varphi_{22} = 17920_2$$