

$S_4(4) \pmod{2}$

	blocks	defect	matrix
$G :$	1 2	8 0	26×15 $256_1 = \chi_{25}, \varphi_{16}$

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}
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$18_1 = \chi_2$	2	1	1	1	1	.	.	.	.	.	.	.	.	.	.
$34_1 = \chi_3$	2	1	1	1	1	.	1	.	.	.	.	.	.	.	.
$34_2 = \chi_4$	2	1	1	1	1	1	.	.	.	.	.	.	.	.	.
$50_1 = \chi_5$	2	1	1	1	1	1	1	.	.	.	.	.	.	.	.
$51_1 = \chi_6$	3	.	1	1	2	.	1	.	.	.	1	.	.	.	.
$51_2 = \chi_7$	3	1	.	2	1	.	1	.	.	1	.	.	.	.	.
$51_3 = \chi_8$	3	2	1	.	1	1	.	1	.	.	.	.	.	.	.
$51_4 = \chi_9$	3	1	2	1	.	1	.	.	1	.	.	.	.	.	.
$85_1 = \chi_{10}$	5	1	1	3	3	.	1	.	.	1	1	.	.	.	.
$85_2 = \chi_{11}$	5	3	3	1	1	1	.	1	1	.	.	.	.	.	.
$153_1 = \chi_{12}$	9	3	3	3	3	1	1	1	1	1	1	.	.	.	.
$204_1 = \chi_{13}$	8	4	3	2	4	1	1	2	.	.	1	.	1	.	.
$204_2 = \chi_{14}$	8	3	4	4	2	1	1	.	2	1	.	1	.	.	.
$204_3 = \chi_{15}$	8	4	2	4	3	1	1	1	.	2	.	.	.	.	1
$204_4 = \chi_{16}$	8	2	4	3	4	1	1	.	1	.	2	.	.	1	.
$225_1 = \chi_{17}$	9	4	2	4	4	1	1	1	.	2	1	.	.	.	1
$225_2 = \chi_{18}$	9	2	4	4	4	1	1	.	1	1	2	.	.	1	.
$225_3 = \chi_{19}$	9	4	4	4	2	1	1	1	2	1	.	1	.	.	.
$225_4 = \chi_{20}$	9	4	4	2	4	1	1	2	1	.	1	.	1	.	.
$255_1 = \chi_{21}$	11	4	4	5	4	1	1	1	1	2	1	.	.	.	1
$255_2 = \chi_{22}$	11	4	4	4	5	1	1	1	1	1	2	.	.	1	.
$255_3 = \chi_{23}$	11	4	5	4	4	1	1	1	2	1	1	1	.	.	.
$255_4 = \chi_{24}$	11	5	4	4	4	1	1	2	1	1	1	.	1	.	.
$340_1 = \chi_{26}$	12	5	5	4	4	1	1	2	2	1	1	1	1	.	.
$340_2 = \chi_{27}$	12	4	4	5	5	1	1	1	1	2	2	.	.	1	1

$$\begin{array}{ll}
 \varphi_1 = 1_1 & \varphi_9 = 16_4 \\
 \varphi_2 = 4_1 & \varphi_{10} = 16_5 \\
 \varphi_3 = 4_2 & \varphi_{11} = 16_6 \\
 \varphi_4 = 4_3 & \varphi_{12} = 64_1 \\
 \varphi_5 = 4_4 & \varphi_{13} = 64_2 \\
 \varphi_6 = 16_1 & \varphi_{14} = 64_3 \\
 \varphi_7 = 16_2 & \varphi_{15} = 64_4 \\
 \varphi_8 = 16_3 &
 \end{array}$$