

$S_4(4).2 \pmod{2}$

	blocks	defect	matrix
$G :$	1 2	9 1	28×9 2×1

Block 1:	$\varphi_{1,0}$	φ_{2+}	φ_{4+}	$\varphi_{6,0}$	$\varphi_{7,0}$	φ_{8+}	φ_{10+}	φ_{12+}	φ_{14+}
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	1	.	.	.	.	.	.	.	.
$18_1 = \chi_{2,0}$	2	1	1	.	.	.	.	.	.
$18_2 = \chi_{2,1}$	2	1	1	.	.	.	.	.	.
$34_1 = \chi_{3,0}$	2	1	1	.	1	.	.	.	.
$34_2 = \chi_{3,1}$	2	1	1	.	1	.	.	.	.
$34_3 = \chi_{4,0}$	2	1	1	1	.	.	.	.	.
$34_4 = \chi_{4,1}$	2	1	1	1	.	.	.	.	.
$50_1 = \chi_{5,0}$	2	1	1	1	1	.	.	.	.
$50_2 = \chi_{5,1}$	2	1	1	1	1	.	.	.	.
$102_1 = \chi_{6+}$	6	1	3	.	2	.	1	.	.
$102_2 = \chi_{8+}$	6	3	1	2	.	1	.	.	.
$85_1 = \chi_{10,0}$	5	1	3	.	1	.	1	.	.
$85_2 = \chi_{10,1}$	5	1	3	.	1	.	1	.	.
$85_3 = \chi_{11,0}$	5	3	1	1	.	1	.	.	.
$85_4 = \chi_{11,1}$	5	3	1	1	.	1	.	.	.
$153_1 = \chi_{12,0}$	9	3	3	1	1	1	1	.	.
$153_2 = \chi_{12,1}$	9	3	3	1	1	1	1	.	.
$408_1 = \chi_{13+}$	16	7	6	2	2	2	1	1	.
$408_2 = \chi_{15+}$	16	6	7	2	2	1	2	.	1
$450_1 = \chi_{17+}$	18	6	8	2	2	1	3	.	1
$450_2 = \chi_{19+}$	18	8	6	2	2	3	1	1	.
$510_1 = \chi_{21+}$	22	8	9	2	2	2	3	.	1
$510_2 = \chi_{23+}$	22	9	8	2	2	3	2	1	.
$340_1 = \chi_{26,0}$	12	5	4	1	1	2	1	1	.
$340_2 = \chi_{26,1}$	12	5	4	1	1	2	1	1	.
$340_3 = \chi_{27,0}$	12	4	5	1	1	1	2	.	1
$340_4 = \chi_{27,1}$	12	4	5	1	1	1	2	.	1

$$\begin{array}{ll}
 \varphi_{1,0} &= 1_1 \\
 \varphi_{2+} &= 8_1 \\
 \varphi_{4+} &= 8_2 \\
 \varphi_{6,0} &= 16_1 \\
 \varphi_{7,0} &= 16_2
 \end{array}
 \qquad
 \begin{array}{ll}
 \varphi_{8+} &= 32_1 \\
 \varphi_{10+} &= 32_2 \\
 \varphi_{12+} &= 128_1 \\
 \varphi_{14+} &= 128_2
 \end{array}$$

Block 2:	$\varphi_{16,0}$
$256_1 = \chi_{25,0}$	1
$256_2 = \chi_{25,1}$	1

$$\varphi_{16,0} \quad = \quad 256_1$$