$S_4(4).4 \pmod 5$

	blocks	defect	matrix
$G:$	1	2	20×14
	2	0	$50_1 = \chi_{5,0}, \varphi_{5,0}$
	3	0	$50_2 = \chi_{5,1}, \varphi_{5,1}$
	4	0	$50_3 = \chi_{5,2}, \varphi_{5,2}$
	$5 = \overline{3}$	0	$50_4 = \chi_{5,3}, \varphi_{5,3}$
	6	1	5×4
	7	0	$900_1 = \chi_{17+}, \varphi_{9+}$

Block 1:	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{1,2}$	$\varphi_{1,3}$	$\varphi_{2,0}$	$\varphi_{2,1}$	$\varphi_{2,2}$	$\varphi_{2,3}$	$\varphi_{3,0+}$	$\varphi_{3,1+}$	$\varphi_{8,0}$	$\varphi_{8,1}$	$\varphi_{8,2}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	.	1	.	.	.	.	.	.	.	.	.	.	.
$1_3 = \chi_{1,2}$	.	.	1	.	.	.	.	.	.	.	.	.	.
$1_4 = \chi_{1,3}$	.	.	.	1	.	.	.	.	.	.	.	.	.
$18_1 = \chi_{2,0}$	.	.	.	.	1	.	.	.	.	.	.	.	.
$18_2 = \chi_{2,1}$	.	.	.	.	.	1	.	.	.	.	.	.	.
$18_3 = \chi_{2,2}$	.	.	.	.	.	.	1	.	.	.	.	.	.
$18_4 = \chi_{2,3}$	.	.	.	.	.	.	.	1	.	.	.	.	.
$68_1 = \chi_{3,0+}$	1	.	1	.	.	.	.	.	1	.	.	.	.
$68_2 = \chi_{3,1+}$	.	1	.	1	.	.	.	.	.	1	.	.	.
$204_1 = \chi_{6+}$	.	.	.	.	1	1	1	1	1	1	.	.	.
$153_1 = \chi_{12,0}$	.	.	.	.	.	.	.	.	.	.	1	.	.
$153_2 = \chi_{12,1}$	.	.	.	.	.	.	.	.	.	.	.	1	.
$153_3 = \chi_{12,2}$	.	.	.	.	.	.	.	.	.	.	.	.	1
$153_4 = \chi_{12,3}$	.	.	.	.	.	.	.	.	.	.	.	.	.
$816_1 = \chi_{13+}$	.	.	.	.	1	1	1	1	1	1	1	1	1
$256_1 = \chi_{25,0}$	1	.	.	.	1	1	.	.	1	.	1	.	.
$256_2 = \chi_{25,1}$	.	1	.	.	.	1	1	.	.	1	.	1	.
$256_3 = \chi_{25,2}$	.	.	1	.	.	.	1	1	1	.	.	.	1
$256_4 = \chi_{25,3}$	.	.	.	1	1	.	.	1	.	1	.	.	.

(**Block 1:**)	$\varphi_{8,3}$
$1_1 = \chi_{1,0}$	.
$1_2 = \chi_{1,1}$	.
$1_3 = \chi_{1,2}$	.
$1_4 = \chi_{1,3}$	.
$18_1 = \chi_{2,0}$	.
$18_2 = \chi_{2,1}$	.
$18_3 = \chi_{2,2}$	.
$18_4 = \chi_{2,3}$	.
$68_1 = \chi_{3,0+}$	.
$68_2 = \chi_{3,1+}$	.
$204_1 = \chi_{6+}$	.
$153_1 = \chi_{12,0}$	.
$153_2 = \chi_{12,1}$	.
$153_3 = \chi_{12,2}$	.
$153_4 = \chi_{12,3}$	1
$816_1 = \chi_{13+}$	1
$256_1 = \chi_{25,0}$	.
$256_2 = \chi_{25,1}$	.
$256_3 = \chi_{25,2}$	.
$256_4 = \chi_{25,3}$	1

$$\begin{aligned}
\varphi_{1,0} &= 1_1 \\
\varphi_{1,1} &= 1_2 \\
\varphi_{1,2} &= 1_3 \\
\varphi_{1,3} &= 1_4 \\
\varphi_{2,0} &= 18_1 \\
\varphi_{2,1} &= 18_2 \\
\varphi_{2,2} &= 18_3 \\
\varphi_{2,3} &= 18_4 \\
\varphi_{3,0+} &= 66_1 \\
\varphi_{3,1+} &= 66_2 \\
\varphi_{8,0} &= 153_1 \\
\varphi_{8,1} &= 153_2 \\
\varphi_{8,2} &= 153_3 \\
\varphi_{8,3} &= 153_4
\end{aligned}$$

Block 6:	$\varphi_{6,0+}$	$\varphi_{6,1+}$	$\varphi_{13,0+}$	$\varphi_{13,1+}$
$170_1 = \chi_{10,0+}$	1	.	.	.
$170_2 = \chi_{10,1+}$	.	1	.	.
$1020_1 = \chi_{21+}$	.	.	1	1
$680_1 = \chi_{26,0+}$	1	.	1	.
$680_2 = \chi_{26,1+}$	.	1	.	1

$$\begin{aligned}
\varphi_{6,0+} &= 170_1 \\
\varphi_{6,1+} &= 170_2 \\
\varphi_{13,0+} &= 510_1 \\
\varphi_{13,1+} &= 510_2
\end{aligned}$$