

$S_4(4).4 \pmod{3}$

	blocks	defect	matrix		blocks	defect	matrix
$G :$	1	2	9×7		7	1	3×2
	2	2	9×7		8	0	$153_1 = \chi_{12,0}, \varphi_{10,0}$
	3	0	$18_1 = \chi_{2,0}, \varphi_{2,0}$		9	0	$153_2 = \chi_{12,1}, \varphi_{10,1}$
	$4 = \bar{3}$	0	$18_2 = \chi_{2,1}, \varphi_{2,1}$		10	0	$153_3 = \chi_{12,2}, \varphi_{10,2}$
	5	0	$18_3 = \chi_{2,2}, \varphi_{2,2}$		$11 = \bar{9}$	0	$153_4 = \chi_{12,3}, \varphi_{10,3}$
	$6 = \bar{5}$	0	$18_4 = \chi_{2,3}, \varphi_{2,3}$		12	0	$900_1 = \chi_{17+}, \varphi_{15+}$

Block 1:	$\varphi_{1,0}$	$\varphi_{1,2}$	$\varphi_{3,0+}$	$\varphi_{5,1}$	$\varphi_{5,3}$	$\varphi_{19,0}$	$\varphi_{19,2}$	
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	$\varphi_{1,0} = 1_1$
$1_3 = \chi_{1,2}$	.	1	.	.	.	.	.	$\varphi_{1,2} = 1_3$
$68_1 = \chi_{3,0+}$	.	.	1	.	.	.	.	$\varphi_{3,0+} = 68_1$
$50_2 = \chi_{5,1}$	.	.	.	1	.	.	.	$\varphi_{5,1} = 50_2$
$50_4 = \chi_{5,3}$	.	.	.	.	1	.	.	$\varphi_{5,3} = 50_4$
$170_2 = \chi_{10,1+}$	1	1	1	1	1	.	.	$\varphi_{19,0} = 256_1$
$256_1 = \chi_{25,0}$	.	.	.	.	.	1	.	$\varphi_{19,2} = 256_3$
$256_3 = \chi_{25,2}$	.	.	.	.	.	.	1	
$680_1 = \chi_{26,0+}$	.	.	1	1	1	1	1	

Block 2:	$\varphi_{1,1}$	$\varphi_{1,3}$	$\varphi_{3,1+}$	$\varphi_{5,0}$	$\varphi_{5,2}$	$\varphi_{19,1}$	$\varphi_{19,3}$	
$1_2 = \chi_{1,1}$	1	.	.	.	.	.	.	$\varphi_{1,1} = 1_2$
$1_4 = \chi_{1,3}$	.	1	.	.	.	.	.	$\varphi_{1,3} = 1_4$
$68_2 = \chi_{3,1+}$	.	.	1	.	.	.	.	$\varphi_{3,1+} = 68_2$
$50_1 = \chi_{5,0}$	.	.	.	1	.	.	.	$\varphi_{5,0} = 50_1$
$50_3 = \chi_{5,2}$	.	.	.	.	1	.	.	$\varphi_{5,2} = 50_3$
$170_1 = \chi_{10,0+}$	1	1	1	1	1	.	.	$\varphi_{19,1} = 256_2$
$256_2 = \chi_{25,1}$	.	.	.	.	.	1	.	$\varphi_{19,3} = 256_4$
$256_4 = \chi_{25,3}$	.	.	.	.	.	.	1	
$680_2 = \chi_{26,1+}$	.	.	1	1	1	1	1	

Block 7:	φ_{6+}	φ_{11+}	
$204_1 = \chi_{6+}$	1	.	$\varphi_{6+} = 204_1$
$816_1 = \chi_{13+}$	.	1	$\varphi_{11+} = 816_1$
$1020_1 = \chi_{21+}$	1	1	