

$S_4(4).2 \pmod{3}$

	blocks	defect	matrix		blocks	defect	matrix
$G :$	1	2	9×5		6	1	3×2
	2	2	9×5		7	0	$153_1 = \chi_{12,0}, \varphi_{10,0}$
	3	0	$18_1 = \chi_{2,0}, \varphi_{2,0}$		8	0	$153_2 = \chi_{12,1}, \varphi_{10,1}$
	$4 = \bar{3}$	0	$18_2 = \chi_{2,1}, \varphi_{2,1}$		9	0	$450_1 = \chi_{17+}, \varphi_{15+}$
	5	1	3×2		10	0	$450_2 = \chi_{19+}, \varphi_{17+}$

Block 1:	$\varphi_{1,0}$	$\varphi_{3,0}$	$\varphi_{4,0}$	$\varphi_{5,1}$	$\varphi_{19,0}$	
$1_1 = \chi_{1,0}$	1	.	.	.	.	
$34_1 = \chi_{3,0}$	.	1	.	.	.	$\varphi_{1,0} = 1_1$
$34_3 = \chi_{4,0}$	.	.	1	.	.	$\varphi_{3,0} = 34_1$
$50_2 = \chi_{5,1}$	.	.	.	1	.	$\varphi_{4,0} = 34_3$
$85_2 = \chi_{10,1}$	1	1	.	1	.	$\varphi_{5,1} = 50_2$
$85_4 = \chi_{11,1}$	1	.	1	1	.	$\varphi_{19,0} = 256_1$
$256_1 = \chi_{25,0}$	.	.	.	.	1	
$340_1 = \chi_{26,0}$	.	.	1	1	1	
$340_3 = \chi_{27,0}$	.	1	.	1	1	

Block 2:	$\varphi_{1,1}$	$\varphi_{3,1}$	$\varphi_{4,1}$	$\varphi_{5,0}$	$\varphi_{19,1}$	
$1_2 = \chi_{1,1}$	1	.	.	.	.	
$34_2 = \chi_{3,1}$	.	1	.	.	.	$\varphi_{1,1} = 1_2$
$34_4 = \chi_{4,1}$	.	.	1	.	.	$\varphi_{3,1} = 34_2$
$50_1 = \chi_{5,0}$	.	.	.	1	.	$\varphi_{4,1} = 34_4$
$85_1 = \chi_{10,0}$	1	1	.	1	.	$\varphi_{5,0} = 50_1$
$85_3 = \chi_{11,0}$	1	.	1	1	.	$\varphi_{19,1} = 256_2$
$256_2 = \chi_{25,1}$	.	.	.	.	1	
$340_2 = \chi_{26,1}$	.	.	1	1	1	
$340_4 = \chi_{27,1}$	.	1	.	1	1	

Block 5:	φ_{6+}	φ_{11+}	
$102_1 = \chi_{6+}$	1	.	$\varphi_{6+} = 102_1$
$408_1 = \chi_{13+}$	.	1	$\varphi_{11+} = 408_1$
$510_1 = \chi_{21+}$	1	1	

Block 6:	φ_{8+}	φ_{13+}
$102_2 = \chi_{8+}$	1	.
$408_2 = \chi_{15+}$	.	1
$510_2 = \chi_{23+}$	1	1

$$\begin{aligned} \varphi_{8+} &= 102_2 \\ \varphi_{13+} &= 408_2 \end{aligned}$$