

$S_4(4) \pmod{3}$

	blocks	defect	matrix
$G :$	1	2	9×5
	2	0	$18_1 = \chi_2, \varphi_2$
	3	1	3×2
	4	1	3×2
	5	1	3×2
	6	1	3×2

	blocks	defect	matrix
	7	0	$153_1 = \chi_{12}, \varphi_{10}$
	8	0	$225_1 = \chi_{17}, \varphi_{15}$
	9	0	$225_2 = \chi_{18}, \varphi_{16}$
	10	0	$225_3 = \chi_{19}, \varphi_{17}$
	11	0	$225_4 = \chi_{20}, \varphi_{18}$

Block 1:	φ_1	φ_3	φ_4	φ_5	φ_{19}	
$1_1 = \chi_1$	1	.	.	.	.	
$34_1 = \chi_3$	.	1	.	.	.	$\varphi_1 = 1_1$
$34_2 = \chi_4$	.	.	1	.	.	$\varphi_3 = 34_1$
$50_1 = \chi_5$	.	.	.	1	.	$\varphi_4 = 34_2$
$85_1 = \chi_{10}$	1	1	.	1	.	$\varphi_5 = 50_1$
$85_2 = \chi_{11}$	1	.	1	1	.	$\varphi_{19} = 256_1$
$256_1 = \chi_{25}$	.	.	.	.	1	
$340_1 = \chi_{26}$	.	.	1	1	1	
$340_2 = \chi_{27}$	.	1	.	1	1	

Block 3:	φ_6	φ_{11}	
$51_1 = \chi_6$	1	.	$\varphi_6 = 51_1$
$204_1 = \chi_{13}$	.	1	$\varphi_{11} = 204_1$
$255_2 = \chi_{22}$	1	1	

Block 4:	φ_7	φ_{12}	
$51_2 = \chi_7$	1	.	$\varphi_7 = 51_2$
$204_2 = \chi_{14}$	.	1	$\varphi_{12} = 204_2$
$255_1 = \chi_{21}$	1	1	

Block 5:	φ_8	φ_{13}	
$51_3 = \chi_8$	1	.	$\varphi_8 = 51_3$
$204_3 = \chi_{15}$	.	1	$\varphi_{13} = 204_3$
$255_4 = \chi_{24}$	1	1	

Block 6:	φ_9	φ_{14}
$51_4 = \chi_9$	1	.
$204_4 = \chi_{16}$	.	1
$255_3 = \chi_{23}$	1	1

$$\begin{aligned} \varphi_9 &= 51_4 \\ \varphi_{14} &= 204_4 \end{aligned}$$