$S_8\pmod 3$

	blocks	defect	matrix
G:	1 2 3 4	2 2 1 0	9×5 9×5 3×2 $90_1 = \chi_{10+}, \varphi_{7+}$
2.G:	5 6	2 1	$\begin{array}{c} 6\times 4 \\ 3\times 1 \end{array}$

Block 1:	$\varphi_{1,0}$	$\varphi_{2,1}$	$\varphi_{3,1}$	$arphi_{5,0}$	$\varphi_{6,0}$
$1_1 = \chi_{1,0}$	1				
$7_2 = \chi_{2,1}$		1			
$14_2 = \chi_{3,1}$	1	•	1		
$20_2 = \chi_{4,1}$		1	1		
$28_1 = \chi_{8,0}$		•		1	
$35_1 = \chi_{9,0}$					1
$56_2 = \chi_{12,1}$	1	1	1		1
$64_1 = \chi_{13,0}$	1			1	1
$70_1 = \chi_{14,0}$		1		1	1

Block 2:	$\varphi_{1,1}$	$\varphi_{2,0}$	$\varphi_{3,0}$	$\varphi_{5,1}$	$\varphi_{6,1}$
$1_2 = \chi_{1,1}$	1				
$7_1 = \chi_{2,0}$		1		•	
$14_1 = \chi_{3,0}$	1		1	•	
$20_1 = \chi_{4,0}$		1	1	•	
$28_2 = \chi_{8,1}$				1	
$35_2 = \chi_{9,1}$				•	1
$56_1 = \chi_{12,0}$	1	1	1	•	1
$64_2 = \chi_{13,1}$	1			1	1
$70_2 = \chi_{14,1}$		1		1	1

			-		
Block 3:	$\varphi_{4,0}$	$\varphi_{4,1}$			
$21_1 = \chi_{5,0}$ $21_2 = \chi_{5,1}$ $42_1 = \chi_{6+}$	1		$\varphi_{4,0}$	=	21_1
$21_2 = \chi_{5,1}$		1	$\varphi_{4,1}$	=	21_{2}
$42_1 = \chi_{6+}$	1	1			

Block 5:	$\varphi_{9,0}$	$\varphi_{9,1}$	$\varphi_{12,0}$	$\varphi_{12,1}$
$8_1 = \chi_{15,0}$	1			
$8_2 = \chi_{15,1}$		1	•	
$112_1 = \chi_{19+}$	1	1	1	1
$112_2 = \chi_{21+}$	1	1	1	1
$64_3 = \chi_{23,0}$	1	1	1	
$64_4 = \chi_{23,1}$	1	1		1

Block 6:	φ_{10+}	
$48_1 = \chi_{16+} $ $48_2 = \chi_{18,0} $ $48_3 = \chi_{18,1} $	1 1 1	φ_{10+}

$$\varphi_{10+} = 48_1$$