$S_{10}\pmod{3}$ 

	blocks	defect	matrix
G:	1 2	4 2	$ 22 \times 10 \\ 9 \times 5 $
	$\begin{array}{c c} 2 \\ 3 \\ 4 \end{array}$	$\frac{2}{0}$	$ \begin{array}{c}                                     $
	5	0	$567_2 = \chi_{24,1}, \varphi_{11,1}$
2.G:	6 7	4	$12 \times 6$ $3 \times 1$

Block 1:	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{3,0}$	$\varphi_{3,1}$	$\varphi_{5,0}$	$\varphi_{5,1}$	$\varphi_{6,0}$	$\varphi_{6,1}$	$\varphi_{9,0}$	$\varphi_{9,1}$
$1_1 = \chi_{1,0}$	1									
$1_2 = \chi_{1,1}$		1			•					
$35_1 = \chi_{3,0}$	1		1							
$35_2 = \chi_{3,1}$		1		1	•		•			
$42_1 = \chi_{5,0}$		1			1	•	•	•		
$42_2 = \chi_{5,1}$	1	•		•		1	•	•	•	
$75_1 = \chi_{6,0}$		•	1		1		•	•	•	•
$75_2 = \chi_{6,1}$		•	•	1	•	1		•	•	•
$84_1 = \chi_{7,0}$		•	•	•	•	٠	1		•	•
$84_2 = \chi_{7,1}$	1	•	1	•	1	•	1	1	•	•
$160_1 = \chi_{10,0}$	1	1	1	1	1	1	1	1	•	•
$160_2 = \chi_{10,1}$		1	•	1	1	1	1	1	•	•
$210_1 = \chi_{11,0} \\ 210_2 = \chi_{11,1}$	1	1	•	•	1	1	1	1	•	•
$448_1 = \chi_{12+}$	1	•	•	•	•	1	1	1	1	1
$300_1 = \chi_{17,0}$		1	•	1	1	•	•	•	1	
$300_2 = \chi_{17,1}$	1	-	1	-	_	1			-	1
$350_1 = \chi_{19,0}$	1				1		1		1	
$350_2 = \chi_{19,1}$		1				1		1		1
$768_1 = \chi_{20+}$	1	1	1	1	1	1	1	1	1	1
$525_1 = \chi_{23,0}$	1	1	1		1				1	1
$525_2 = \chi_{23,1}$	1	1	•	1		1			1	1

Block 2:	$\varphi_{2,0}$	$\varphi_{4,1}$	$\varphi_{7,0}$	$\varphi_{8,0}$	$\varphi_{10,1}$
$9_1 = \chi_{2,0}$	1				
$36_2 = \chi_{4,1}$		1			•
$90_1 = \chi_{8,0}$			1		•
$126_1 = \chi_{9,0}$				1	•
$225_1 = \chi_{14,0}$	1		1	1	
$252_1 = \chi_{15,0}$		1	1	1	
$288_2 = \chi_{16,1}$	1				1
$315_2 = \chi_{18,1}$		1			1
$450_2 = \chi_{22,1}$	1	1		1	1

Block 3:	$\varphi_{2,1}$	$\varphi_{4,0}$	$\varphi_{7,1}$	$\varphi_{8,1}$	$\varphi_{10,0}$
$9_2 = \chi_{2,1}$	1				
$36_1 = \chi_{4,0}$		1		•	
$90_2 = \chi_{8,1}$			1	•	
$126_2 = \chi_{9,1}$				1	
$225_2 = \chi_{14,1}$	1		1	1	
$252_2 = \chi_{15,1}$		1	1	1	
$288_1 = \chi_{16,0}$	1				1
$315_1 = \chi_{18,0}$		1			1
$450_1 = \chi_{22,0}$	1	1		1	1
	l				

Block 6:	$\varphi_{12,0}$	$\varphi_{12,1}$	$\varphi_{13,0}$	$\varphi_{13,1}$	$\varphi_{16,0}$	$\varphi_{16,1}$			
$16_1 = \chi_{25,0}$ $16_2 = \chi_{25,1}$	1	. 1							
$96_1 = \chi_{26+} $ $128_1 = \chi_{28+}$	. 1	. 1	1 1	1 1			$arphi_{12,0} \ arphi_{12,1}$	=	$16_1 \\ 16_2$
$672_1 = \chi_{32+} 768_2 = \chi_{34+}$	1	1	1	1	1 1	1 1	$arphi_{13,0}$	=	$48_{1}$ $48_{2}$
$400_1 = \chi_{36,0}  400_2 = \chi_{36,1}$	1 1	1	1	. 1	. 1	1	$\varphi_{13,1}$ $\varphi_{16,0}$	=	$320_1$ $320_2$
$448_2 = \chi_{38,0}$ $448_3 = \chi_{38,1}$	1 1	1	1 1	1	1	1	$\varphi_{16,1}$	_	3202
$800_1 = \chi_{39,0} 800_2 = \chi_{39,1}$	2 2	2 2	1 1	1 1	1 1	1 1			

Block 7:	$\varphi_{14+}$	
$432_1 = \chi_{30+}$	1	$\varphi_{14+} = 432_1$
$432_2 = \chi_{37,0} $ $432_3 = \chi_{37,1}$	1	