

$S_6(2) \pmod{3}$

	blocks	defect	matrix
$G :$	1	4	23×10
	2	1	3×2
	3	1	3×2
	4	0	$405_1 = \chi_{28}, \varphi_{15}$
$2.G :$	5	4	13×6

Block 1:	φ_1	φ_2	φ_3	φ_4	φ_6	φ_7	φ_8	φ_9	φ_{10}	φ_{14}
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	.	.
$7_1 = \chi_2$	.	1	.	.	.	.	.	.	.	.
$15_1 = \chi_3$	1	.	1	.	.	.	.	.	.	.
$21_1 = \chi_4$	.	.	.	1	.	.	.	.	.	.
$21_2 = \chi_5$	.	1	1	.	.	.	.	.	.	.
$35_1 = \chi_7$	.	.	.	.	.	1	.	.	.	.
$35_2 = \chi_8$	1	.	.	.	1	.	.	.	.	.
$56_1 = \chi_9$	.	1	.	.	.	.	1	.	.	.
$70_1 = \chi_{10}$	.	.	.	1	.	.	1	.	.	.
$84_1 = \chi_{11}$	1	.	1	.	1	1	.	.	.	.
$105_1 = \chi_{12}$	.	1	1	.	.	1	1	.	.	.
$105_2 = \chi_{13}$	.	1	.	.	.	.	.	.	1	.
$105_3 = \chi_{14}$	.	.	1	.	.	.	.	1	.	.
$120_1 = \chi_{15}$	1	.	.	1	.	.	.	.	1	.
$168_1 = \chi_{16}$	1	.	.	.	1	1	.	.	1	.
$210_1 = \chi_{20}$	.	.	.	1	.	.	.	1	1	.
$210_2 = \chi_{21}$	.	1	.	1	.	1	1	.	1	.
$280_1 = \chi_{23}$	.	.	.	.	.	1	1	.	.	1
$280_2 = \chi_{24}$	1	1	1	.	1	1	.	1	1	.
$315_1 = \chi_{25}$	.	.	.	1	.	.	2	.	.	1
$336_1 = \chi_{26}$	.	.	1	.	.	1	.	1	.	1
$420_1 = \chi_{29}$	.	.	.	.	.	1	.	1	1	1
$512_1 = \chi_{30}$	1	1	1	1	.	1	1	1	1	1

- $\varphi_1 = 1_1$
- $\varphi_2 = 7_1$
- $\varphi_3 = 14_1$
- $\varphi_4 = 21_1$
- $\varphi_6 = 34_1$
- $\varphi_7 = 35_1$
- $\varphi_8 = 49_1$
- $\varphi_9 = 91_1$
- $\varphi_{10} = 98_1$
- $\varphi_{14} = 196_1$

Block 2:	φ_5	φ_{13}
$27_1 = \chi_6$	1	.
$189_3 = \chi_{19}$	.	1
$216_1 = \chi_{22}$	1	1

- $\varphi_5 = 27_1$
- $\varphi_{13} = 189_3$

Block 3:	φ_{11}	φ_{12}		
$189_1 = \chi_{17}$	1	.	$\varphi_{11} =$	189_1
$189_2 = \chi_{18}$	.	1	$\varphi_{12} =$	189_2
$378_1 = \chi_{27}$	1	1		

Block 5:	φ_{16}	φ_{17}	φ_{18}	φ_{19}	φ_{20}	φ_{21}		
$8_1 = \chi_{31}$	1	.	.	.	.	.
$48_1 = \chi_{32}$	.	1	.	.	.	.
$64_1 = \chi_{33}$	1	.	1	.	.	.		
$64_2 = \chi_{34}$	1	.	.	1	.	.	$\varphi_{16} =$	8_1
$112_1 = \chi_{35}$	1	.	.	.	1	.	$\varphi_{17} =$	48_1
$112_2 = \chi_{36}$	1	.	.	.	1	.	$\varphi_{18} =$	56_1
$120_2 = \chi_{37}$	1	.	1	1	.	.	$\varphi_{19} =$	56_2
$168_2 = \chi_{38}$	1	1	1	1	.	.	$\varphi_{20} =$	104_1
$280_3 = \chi_{39}$	1	.	.	.	.	1	$\varphi_{21} =$	272_1
$448_1 = \chi_{40}$	2	1	1	1	.	1		
$512_2 = \chi_{41}$	3	.	1	1	1	1		
$560_1 = \chi_{42}$	3	1	1	1	1	1		
$720_1 = \chi_{43}$	2	1	1	1	.	2		