

$$M_{23} \pmod{3}$$

	blocks	defect	matrix
$G :$	1	2	9×7
	2	0	$45_1 = \chi_3, \varphi_3$
	$3 = \bar{2}$	0	$45_2 = \chi_4, \varphi_4$
	4	1	3×1
	5	0	$990_1 = \chi_{14}, \varphi_{11}$
	$6 = \bar{5}$	0	$990_2 = \chi_{15}, \varphi_{12}$
	7	0	$1035_1 = \chi_{16}, \varphi_{13}$

Block 1:	φ_1	φ_2	φ_5	φ_6	φ_8	φ_9	φ_{10}	
$1_1 = \chi_1$	1	.	.	.	.	.	.	$\varphi_1 = 1_1$
$22_1 = \chi_2$	.	1	.	.	.	.	.	$\varphi_2 = 22_1$
$230_1 = \chi_5$	.	1	1	1	.	.	.	$\varphi_5 = 104_1$
$253_1 = \chi_9$	.	.	.	.	1	.	.	$\varphi_6 = 104_2$
$770_1 = \chi_{10}$	.	.	.	.	.	1	.	$\varphi_8 = 253_1$
$770_2 = \chi_{11}$	.	.	.	.	.	.	1	$\varphi_9 = 770_1$
$896_1 = \chi_{12}$	.	1	1	.	.	1	.	$\varphi_{10} = 770_2$
$896_2 = \chi_{13}$	.	1	.	1	.	.	1	
$2024_1 = \chi_{17}$	1	1	1	1	1	1	1	

Block 4:	φ_7	
$231_1 = \chi_6$	1	$\varphi_7 = 231_1$
$231_2 = \chi_7$	1	
$231_3 = \chi_8$	1	