

$$M_{23} \pmod{11}$$

	blocks	defect	matrix
$G:$	1	1	7×5
	2	0	$22_1 = \chi_2, \varphi_2$
	3	0	$231_1 = \chi_6, \varphi_6$
	4	0	$231_2 = \chi_7, \varphi_7$
	$5 = \overline{4}$	0	$231_3 = \chi_8, \varphi_8$
	6	0	$253_1 = \chi_9, \varphi_9$

	blocks	defect	matrix
	7	0	$770_1 = \chi_{10}, \varphi_{10}$
	$8 = \overline{7}$	0	$770_2 = \chi_{11}, \varphi_{11}$
	9	0	$990_1 = \chi_{14}, \varphi_{13}$
	$10 = \overline{9}$	0	$990_2 = \chi_{15}, \varphi_{14}$
	11	0	$2024_1 = \chi_{17}, \varphi_{15}$

Block 1:	φ_1	φ_3	φ_4	φ_5	φ_{12}		
$1_1 = \chi_1$	1	.	.	.	.	φ_1	$= 1_1$
$45_1 = \chi_3$	.	1	.	.	.	φ_3	$= 45_1$
$45_2 = \chi_4$	.	.	1	.	.	φ_4	$= 45_2$
$230_1 = \chi_5$	1	.	.	1	.	φ_5	$= 229_1$
$896_1 = \chi_{12}$	.	1	1	.	1	φ_{12}	$= 806_1$
$896_2 = \chi_{13}$	.	1	1	.	1		
$1035_1 = \chi_{16}$	.	.	.	1	1		