$L_2(23) \pmod{11}$

	blocks	defect	matrix
$G:$	1	1	7×2
	2	0	$11_1 = \chi_2, \varphi_2$
	$3 = \overline{2}$	0	$11_2 = \chi_3, \varphi_3$
	4	0	$22_1 = \chi_4, \varphi_4$
	5	0	$22_2 = \chi_5, \varphi_5$
	6	0	$22_3 = \chi_6, \varphi_6$
	7	0	$22_4 = \chi_7, \varphi_7$
	8	0	$22_5 = \chi_8, \varphi_8$

	blocks	defect	matrix
$2.G:$	9	1	7×2
	10	0	$22_6 = \chi_{17}, \varphi_{12}$
	11	0	$22_7 = \chi_{18}, \varphi_{13}$
	12	0	$22_8 = \chi_{19}, \varphi_{14}$
	13	0	$22_9 = \chi_{20}, \varphi_{15}$
	14	0	$22_{10} = \chi_{21}, \varphi_{16}$
	15	0	$22_{11} = \chi_{22}, \varphi_{17}$

Block 1:	φ_1	φ_9
$1_1 = \chi_1$	1	.
$23_1 = \chi_9$	.	1
$24_1 = \chi_{10}$	1	1
$24_2 = \chi_{11}$	1	1
$24_3 = \chi_{12}$	1	1
$24_4 = \chi_{13}$	1	1
$24_5 = \chi_{14}$	1	1

$\varphi_1 = 1_1$
$\varphi_9 = 23_1$

Block 9:	φ_{10}	φ_{11}
$12_1 = \chi_{15}$	1	.
$12_2 = \chi_{16}$	.	1
$24_6 = \chi_{23}$	1	1
$24_7 = \chi_{24}$	1	1
$24_8 = \chi_{25}$	1	1
$24_9 = \chi_{26}$	1	1
$24_{10} = \chi_{27}$	1	1

$\varphi_{10} = 12_1$
$\varphi_{11} = 12_2$