$L_2(23).2$ (mod 2)

	blocks	defect	matrix
$2.G:$	1	5	12×2
	2	4	16×1
	3	2	4×1
	4	2	4×1
	5	2	4×1
	6	2	4×1
	7	2	4×1

Block 1:	$\varphi_{1,0}$	φ_{2+}
$1_1 = \chi_{1,0}$	1	.
$1_2 = \chi_{1,1}$	1	.
$22_1 = \chi_{2+}$	.	1
$22_4 = \chi_{5,0}$	.	1
$22_5 = \chi_{5,1}$	.	1
$23_1 = \chi_{9,0}$	1	1
$23_2 = \chi_{9,1}$	1	1
$24_{11} = \chi_{15+}$	2	1
$22_{12} = \chi_{17,0}$	.	1
$22_{13} = \chi_{17,1}$	.	1
$22_{14} = \chi_{18,0}$	.	1
$22_{15} = \chi_{18,1}$	.	1

$$\varphi_{1,0} = 1_1$$
$$\varphi_{2+} = 22_1$$

Block 2:	$\varphi_{4,0}$
$22_2 = \chi_{4,0}$	1
$22_3 = \chi_{4,1}$	1
$22_6 = \chi_{6,0}$	1
$22_7 = \chi_{6,1}$	1
$22_8 = \chi_{7,0}$	1
$22_9 = \chi_{7,1}$	1
$22_{10} = \chi_{8,0}$	1
$22_{11} = \chi_{8,1}$	1
$22_{16} = \chi_{19,0}$	1
$22_{17} = \chi_{19,1}$	1
$22_{18} = \chi_{20,0}$	1
$22_{19} = \chi_{20,1}$	1
$22_{20} = \chi_{21,0}$	1
$22_{21} = \chi_{21,1}$	1
$22_{22} = \chi_{22,0}$	1
$22_{23} = \chi_{22,1}$	1

$$\varphi_{4,0} \;=\; 22_2$$

Block 3:	$\varphi_{5,0}$
$24_1 = \chi_{10,0}$	1
$24_2 = \chi_{10,1}$	1
$24_{12} = \chi_{23,0}$	1
$24_{13} = \chi_{23,1}$	1

$$\varphi_{5,0} \;=\; 24_1$$

Block 4:	$\varphi_{6,0}$
$24_3 = \chi_{11,0}$	1
$24_4 = \chi_{11,1}$	1
$24_{14} = \chi_{24,0}$	1
$24_{15} = \chi_{24,1}$	1

$$\varphi_{6,0} \;=\; 24_2$$

Block 5:	$\varphi_{7,0}$
$24_5 = \chi_{12,0}$	1
$24_6 = \chi_{12,1}$	1
$24_{16} = \chi_{25,0}$	1
$24_{17} = \chi_{25,1}$	1

$$\varphi_{7,0} \quad = \quad 24_3$$

Block 6:	$\varphi_{8,0}$
$24_7 = \chi_{13,0}$	1
$24_8 = \chi_{13,1}$	1
$24_{18} = \chi_{26,0}$	1
$24_{19} = \chi_{26,1}$	1

$$\varphi_{8,0} \quad = \quad 24_4$$

Block 7:	$\varphi_{9,0}$
$24_9 = \chi_{14,0}$	1
$24_{10} = \chi_{14,1}$	1
$24_{20} = \chi_{27,0}$	1
$24_{21} = \chi_{27,1}$	1

$$\varphi_{9,0} \quad = \quad 24_5$$