$M_{12}.2$ (mod 11)

	blocks	defect	matrix
$G:$	1	1	11×10
	2	0	$22_1 = \chi_{2+}, \varphi_{2+}$
	3	0	$55_1 = \chi_{8,0}, \varphi_{7,0}$
	4	0	$55_2 = \chi_{8,1}, \varphi_{7,1}$
	5	0	$110_1 = \chi_{9+}, \varphi_{8+}$
	6	0	$66_1 = \chi_{11,0}, \varphi_{10,0}$
	7	0	$66_2 = \chi_{11,1}, \varphi_{10,1}$

	blocks	defect	matrix
	8	0	$99_1 = \chi_{12,0}, \varphi_{12,0}$
	9	0	$99_2 = \chi_{12,1}, \varphi_{12,1}$
	10	0	$176_1 = \chi_{15,0}, \varphi_{13,0}$
	11	0	$176_2 = \chi_{15,1}, \varphi_{13,1}$
$2.G:$	12	1	11×10
	13	0	$88_1 = \chi_{20+}, \varphi_{18+}$
	14	0	$220_1 = \chi_{22+}, \varphi_{21+}$

Block 1:	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{4,0}$	$\varphi_{4,1}$	$\varphi_{5,0}$	$\varphi_{5,1}$	$\varphi_{6,0}$	$\varphi_{6,1}$	$\varphi_{11,0}$	$\varphi_{11,1}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	.	1	.	.	.	.	.	.	.	.
$32_1 = \chi_{4+}$	.	.	1	1	.	.	.	.	.	.
$45_1 = \chi_{6,0}$	.	.	1	.	1	.	.	.	.	.
$45_2 = \chi_{6,1}$	.	.	.	1	.	1	.	.	.	.
$54_1 = \chi_{7,0}$	.	1	.	.	.	.	1	.	.	.
$54_2 = \chi_{7,1}$	1	.	.	.	.	.	.	1	.	.
$120_1 = \chi_{13,0}$	.	.	.	.	.	1	.	.	1	.
$120_2 = \chi_{13,1}$	.	.	.	.	1	.	.	.	.	1
$144_1 = \chi_{14,0}$	.	.	.	.	.	.	1	.	1	.
$144_2 = \chi_{14,1}$	.	.	.	.	.	.	.	1	.	1

$$\begin{aligned} \varphi_{1,0} &= 1_1 & \qquad \varphi_{5,1} &= 29_2 \\ \varphi_{1,1} &= 1_2 & \qquad \varphi_{6,0} &= 53_1 \\ \varphi_{4,0} &= 16_1 & \qquad \varphi_{6,1} &= 53_2 \\ \varphi_{4,1} &= 16_2 & \qquad \varphi_{11,0} &= 91_1 \\ \varphi_{5,0} &= 29_1 & \qquad \varphi_{11,1} &= 91_2 \end{aligned}$$

Block 12:	$\varphi_{14,0}$	$\varphi_{14,1}$	$\varphi_{15,0}$	$\varphi_{15,1}$	$\varphi_{16,0}$	$\varphi_{16,1}$	$\varphi_{17,0}$	$\varphi_{17,1}$	$\varphi_{20,0}$	$\varphi_{20,1}$
$10_1 = \chi_{16,0}$	1	.	.	.	.	.	.	.	.	.
$10_2 = \chi_{16,1}$	.	1	.	.	.	.	.	.	.	.
$10_3 = \chi_{17,0}$	.	.	1	.	.	.	.	.	.	.
$10_4 = \chi_{17,1}$	.	.	.	1	.	.	.	.	.	.
$12_1 = \chi_{18,0}$	.	.	.	.	1	.	.	.	.	.
$12_2 = \chi_{18,1}$	.	.	.	.	.	1	.	.	.	.
$32_2 = \chi_{19,0}$	.	.	.	.	.	.	1	.	.	.
$32_3 = \chi_{19,1}$	.	.	.	.	.	.	.	1	.	.
$120_3 = \chi_{24,0}$	.	.	.	.	.	1	.	.	1	.
$120_4 = \chi_{24,1}$	.	.	.	.	1	.	.	.	.	1
$320_1 = \chi_{25+}$	1	1	1	1	.	.	1	1	1	1

$\varphi_{14,0} = 10_1$
$\varphi_{14,1} = 10_2$
$\varphi_{15,0} = 10_3$
$\varphi_{15,1} = 10_4$
$\varphi_{16,0} = 12_1$
$\varphi_{16,1} = 12_2$
$\varphi_{17,0} = 32_1$
$\varphi_{17,1} = 32_2$
$\varphi_{20,0} = 108_1$
$\varphi_{20,1} = 108_2$