

$M_{12.2} \pmod{3}$

	blocks	defect	matrix
$G :$	1	3	13×7
	2	1	3×2
	3	1	3×2
	4	0	$54_1 = \chi_{7,0}, \varphi_{10,0}$
	5	0	$54_2 = \chi_{7,1}, \varphi_{10,1}$
$2.G :$	6	3	13×7

Block 1:	$\varphi_{1,0}$	$\varphi_{1,1}$	φ_{2+}	φ_{4+}	$\varphi_{6,0}$	$\varphi_{6,1}$	φ_{8+}	
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	.	1	.	.	.	.	.
$22_1 = \chi_{2+}$	1	1	1	.	.	.	.	$\varphi_{1,0} = 1_1$
$32_1 = \chi_{4+}$	1	1	.	1	.	.	.	$\varphi_{1,1} = 1_2$
$55_1 = \chi_{8,0}$	1	.	1	.	1	.	.	$\varphi_{2+} = 20_1$
$55_2 = \chi_{8,1}$	.	1	1	.	.	1	.	$\varphi_{4+} = 30_1$
$110_1 = \chi_{9+}$	.	.	1	.	.	.	1	$\varphi_{6,0} = 34_1$
$66_1 = \chi_{11,0}$	2	.	.	1	1	.	.	$\varphi_{6,1} = 34_2$
$66_2 = \chi_{11,1}$	.	2	.	1	.	1	.	$\varphi_{8+} = 90_1$
$120_1 = \chi_{13,0}$	.	.	.	1	.	.	1	
$120_2 = \chi_{13,1}$	.	.	.	1	.	.	1	
$176_1 = \chi_{15,0}$	1	1	1	1	1	.	1	
$176_2 = \chi_{15,1}$	1	1	1	1	.	1	1	

Block 2:	$\varphi_{7,0}$	$\varphi_{11,1}$	
$45_1 = \chi_{6,0}$	1	.	$\varphi_{7,0} = 45_1$
$99_2 = \chi_{12,1}$	.	1	$\varphi_{11,1} = 99_2$
$144_1 = \chi_{14,0}$	1	1	

Block 3:	$\varphi_{7,1}$	$\varphi_{11,0}$	
$45_2 = \chi_{6,1}$	1	.	$\varphi_{7,1} = 45_2$
$99_1 = \chi_{12,0}$	.	1	$\varphi_{11,0} = 99_1$
$144_2 = \chi_{14,1}$	1	1	

Block 6:	φ_{12+}	$\varphi_{14,0}$	$\varphi_{14,1}$	$\varphi_{15,0}$	$\varphi_{15,1}$	φ_{16+}	φ_{18+}
$10_1 = \chi_{16,0}$	.	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	1	.	.	1	.	.
$32_3 = \chi_{19,1}$	1	.	1	1	.	.	.
$88_1 = \chi_{20+}$	.	.	.	.	.	1	.
$220_1 = \chi_{22+}$	1	1	1	1	1	.	1
$120_3 = \chi_{24,0}$	1	1	.	1	.	1	.
$120_4 = \chi_{24,1}$	1	.	1	.	1	1	.
$320_1 = \chi_{25+}$	2	1	1	1	1	1	1

$$\begin{aligned}
\varphi_{12+} &= 12_1 \\
\varphi_{14,0} &= 10_1 \\
\varphi_{14,1} &= 10_2 \\
\varphi_{15,0} &= 10_3 \\
\varphi_{15,1} &= 10_4 \\
\varphi_{16+} &= 88_1 \\
\varphi_{18+} &= 168_1
\end{aligned}$$