

$M_{22}.2 \pmod{3}$

	blocks	defect	matrix
$3.G :$	1	3	14×7
	2	2	9×4
	3	1	3×2
	$4 = \overline{3}$	1	3×2
	5	1	3×2
$6.G :$	6	3	14×7

	blocks	defect	matrix
	7	2	9×4
	8	1	3×1
$12.G :$	9	3	16×5
	10	1	3×1
	$11 = \overline{10}$	1	3×1

Block 1:	$\varphi_{1,0}$	$\varphi_{1,1}$	φ_{5+}	$\varphi_{7,0}$	$\varphi_{7,1}$	$\varphi_{10,0}$	$\varphi_{10,1}$	
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	
$1_2 = \chi_{1,1}$	.	1	.	.	.	.	.	
$55_1 = \chi_{5,0}$	.	.	.	1	.	.	.	
$55_2 = \chi_{5,1}$	.	.	.	.	1	.	.	$\varphi_{1,0} = 1_1$
$154_1 = \chi_{7,0}$	1	.	1	1	.	.	.	$\varphi_{1,1} = 1_2$
$154_2 = \chi_{7,1}$	.	1	1	.	1	.	.	$\varphi_{5+} = 98_1$
$560_1 = \chi_{10+}$	.	.	1	.	.	1	1	$\varphi_{7,0} = 55_1$
$385_1 = \chi_{12,0}$	.	1	1	1	.	1	.	$\varphi_{7,1} = 55_2$
$385_2 = \chi_{12,1}$	1	.	1	.	1	.	1	$\varphi_{10,0} = 231_1$
$210_5 = \chi_{36+}$	1	1	1	1	1	.	.	$\varphi_{10,1} = 231_2$
$210_6 = \chi_{37+}$	1	1	1	1	1	.	.	
$462_2 = \chi_{40+}$	.	.	.	.	.	1	1	
$660_1 = \chi_{41+}$	1	1	2	.	.	1	1	
$768_1 = \chi_{42+}$	.	.	2	1	1	1	1	

Block 2 ₁ , 2 ₂ :	$\varphi_{2,0}$	$\varphi_{9,1}$	$\varphi_{2,1}$	$\varphi_{9,0}$	
$21_1 = \chi_{2,0}$	1	.	.	.	
$210_2 = \chi_{8,1}$	.	1	.	.	
$231_2 = \chi_{9,1}$	1	1	.	.	
$21_2 = \chi_{2,1}$	.	.	1	.	$\varphi_{2,0} = 21_1$
$210_1 = \chi_{8,0}$	.	.	.	1	$\varphi_{2,1} = 21_2$
$231_1 = \chi_{9,0}$	.	.	1	1	$\varphi_{9,0} = 210_1$
$42_1 = \chi_{32+}$	1	.	1	.	$\varphi_{9,1} = 210_2$
$420_1 = \chi_{38+}$	.	1	.	1	
$462_1 = \chi_{39+}$	1	1	1	1	

Block 3₁, 3₂:	$\varphi_{3,0}$	$\varphi_{3,1}$	
$45_1 = \chi_{3,0}$	1	.	$\varphi_{3,0} = 45_1$
$45_2 = \chi_{3,1}$	.	1	$\varphi_{3,1} = 45_2$
$90_1 = \chi_{33+}$	1	1	

Block 4 ₁ , 4 ₂ :	$\varphi_{4,0}$	$\varphi_{4,1}$	
45 ₃ = $\chi_{4,0}$	1	.	$\varphi_{4,0} = 45_3$
45 ₄ = $\chi_{4,1}$	.	1	$\varphi_{4,1} = 45_4$
90 ₂ = χ_{34+}	1	1	

Block 5 ₁ , 5 ₂ :	$\varphi_{8,0}$	$\varphi_{8,1}$	
99 ₁ = $\chi_{6,0}$	1	.	$\varphi_{8,0} = 99_1$
99 ₂ = $\chi_{6,1}$	.	1	$\varphi_{8,1} = 99_2$
198 ₁ = χ_{35+}	1	1	

Block 6:	$\varphi_{11,0}$	$\varphi_{11,1}$	$\varphi_{12,0}$	$\varphi_{12,1}$	$\varphi_{13,0}$	$\varphi_{13,1}$	φ_{17+}
$10_1 = \chi_{13,0}$	1	.	.	.	.	.	.
$10_2 = \chi_{13,1}$	.	1	.	.	.	.	.
$10_3 = \chi_{14,0}$	.	.	1	.	.	.	.
$10_4 = \chi_{14,1}$	.	.	.	1	.	.	.
$56_1 = \chi_{15,0}$	.	.	.	.	1	.	.
$56_2 = \chi_{15,1}$	.	.	.	.	.	1	.
$308_1 = \chi_{19+}$	.	.	.	.	.	.	1
$440_1 = \chi_{23,0}$	1	.	1	.	1	1	1
$440_2 = \chi_{23,1}$	.	1	.	1	1	1	1
$132_1 = \chi_{43+}$	1	1	.	.	1	1	.
$132_2 = \chi_{44+}$	.	.	1	1	1	1	.
$420_3 = \chi_{49+}$	.	.	.	.	1	1	1
$420_4 = \chi_{50+}$	.	.	.	.	1	1	1
$768_2 = \chi_{52+}$	1	1	1	1	1	1	2

Block 7₁, 7₂:	$\varphi_{14,0}$	$\varphi_{19,1}$	$\varphi_{14,1}$	$\varphi_{19,0}$	
$120_1 = \chi_{16,0}$	1	.	.	.	$\varphi_{14,0} = 120_1$ $\varphi_{14,1} = 120_2$ $\varphi_{19,0} = 210_3$ $\varphi_{19,1} = 210_4$
$210_4 = \chi_{21,1}$	.	1	.	.	
$330_2 = \chi_{22,1}$	1	1	.	.	
$120_2 = \chi_{16,1}$	.	.	1	.	
$210_3 = \chi_{21,0}$	.	.	.	1	
$330_1 = \chi_{22,0}$	.	.	1	1	
$240_1 = \chi_{45+}$	1	.	1	.	
$420_2 = \chi_{48+}$	.	1	.	1	
$660_2 = \chi_{51+}$	1	1	1	1	

Block 8:	φ_{15+}	
$252_1 = \chi_{17+}$	1	$\varphi_{15+} = 252_1$
$252_2 = \chi_{46+}$	1	
$252_3 = \chi_{47+}$	1	

Block 9:	φ_{20+}	φ_{21+}	φ_{22+}	φ_{25+}	φ_{26+}	
$112_1 = \chi_{24+}$	1	.	.	.	.	$\varphi_{20+} = 112_1$ $\varphi_{21+} = 112_2$ $\varphi_{22+} = 128_1$ $\varphi_{25+} = 320_1$ $\varphi_{26+} = 320_2$
$112_2 = \chi_{25+}$	.	1	.	.	.	
$320_1 = \chi_{28+}$	.	.	.	1	.	
$320_2 = \chi_{29+}$	.	.	.	.	1	
$352_1 = \chi_{30+}$	1	1	1	.	.	
$1120_1 = \chi_{31+}$	1	1	2	1	1	
$240_2 = \chi_{53+}$	1	.	1	.	.	
$240_3 = \chi_{53*17+}$	1	.	1	.	.	
$240_4 = \chi_{53*7+}$	.	1	1	.	.	
$240_5 = \chi_{54+}$	.	1	1	.	.	
$672_1 = \chi_{57+}$	1	1	1	1	.	
$672_2 = \chi_{57*89+}$	1	1	1	1	.	
$672_3 = \chi_{57*67+}$	1	1	1	.	1	
$672_4 = \chi_{58+}$	1	1	1	.	1	
$768_3 = \chi_{59+}$	.	.	1	1	1	
$768_4 = \chi_{59*5+}$	.	.	1	1	1	

Block 10:	φ_{23+}
$288_1 = \chi_{26+}$	1
$288_3 = \chi_{55+}$	1
$288_4 = \chi_{55*29+}$	1

$$\varphi_{23+} = 288_1$$

Block 11:	φ_{24+}
$288_2 = \chi_{27+}$	1
$288_5 = \chi_{56+}$	1
$288_6 = \chi_{56*29+}$	1

$$\varphi_{24+} = 288_2$$