

$$M_{22.2} \pmod{2}$$

	blocks	defect	matrix
$4.G :$	1	10	45×6
$12.G :$	2 3	9 2	31×5 4×1

Block 1:	$\varphi_{1,0}$	$\varphi_{2,0}$	$\varphi_{3,0}$	$\varphi_{4,0}$	φ_{5+}	$\varphi_{7,0}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.
$1_2 = \chi_{1,1}$	1	.	.	.	.	.
$21_1 = \chi_{2,0}$	1	1	1	.	.	.
$21_2 = \chi_{2,1}$	1	1	1	.	.	.
$45_1 = \chi_{3,0}$	1	1	.	1	.	.
$45_2 = \chi_{3,1}$	1	1	.	1	.	.
$45_3 = \chi_{4,0}$	1	.	1	1	.	.
$45_4 = \chi_{4,1}$	1	.	1	1	.	.
$55_1 = \chi_{5,0}$	1	1	1	1	.	.
$55_2 = \chi_{5,1}$	1	1	1	1	.	.
$99_1 = \chi_{6,0}$	1	.	.	.	.	1
$99_2 = \chi_{6,1}$	1	.	.	.	.	1
$154_1 = \chi_{7,0}$	2	1	1	1	.	1
$154_2 = \chi_{7,1}$	2	1	1	1	.	1
$210_1 = \chi_{8,0}$	4	2	2	2	.	1
$210_2 = \chi_{8,1}$	4	2	2	2	.	1
$231_1 = \chi_{9,0}$	3	1	1	2	1	.
$231_2 = \chi_{9,1}$	3	1	1	2	1	.
$560_1 = \chi_{10+}$	8	4	4	4	1	2
$385_1 = \chi_{12,0}$	5	2	2	3	1	1
$385_2 = \chi_{12,1}$	5	2	2	3	1	1
$10_1 = \chi_{13,0}$	.	1	.	.	.	.
$10_2 = \chi_{13,1}$	.	1	.	.	.	.
$10_3 = \chi_{14,0}$	.	.	1	.	.	.
$10_4 = \chi_{14,1}$	.	.	1	.	.	.
$56_1 = \chi_{15,0}$	2	1	1	1	.	.
$56_2 = \chi_{15,1}$	2	1	1	1	.	.
$120_1 = \chi_{16,0}$	2	1	1	.	.	1
$120_2 = \chi_{16,1}$	2	1	1	.	.	1
$252_1 = \chi_{17+}$	4	2	2	2	1	.
$308_1 = \chi_{19+}$	4	2	2	2	.	2
$210_3 = \chi_{21,0}$	4	2	2	2	.	1
$210_4 = \chi_{21,1}$	4	2	2	2	.	1
$330_1 = \chi_{22,0}$	4	1	1	2	1	1
$330_2 = \chi_{22,1}$	4	1	1	2	1	1
$440_1 = \chi_{23,0}$	6	3	3	4	1	1
$440_2 = \chi_{23,1}$	6	3	3	4	1	1
$112_1 = \chi_{24+}$	4	2	2	2	.	.
$112_2 = \chi_{25+}$	4	2	2	2	.	.
$288_1 = \chi_{26+}$	4	.	2	2	.	2

(Block 1:)	$\varphi_{1,0}$	$\varphi_{2,0}$	$\varphi_{3,0}$	$\varphi_{4,0}$	φ_{5+}	$\varphi_{7,0}$	
$288_2 = \chi_{27+}$	4	2	.	2	.	2	$\varphi_{1,0} = 1_1$
$320_1 = \chi_{28+}$	4	2	2	4	1	.	$\varphi_{2,0} = 10_1$
$320_2 = \chi_{29+}$	4	2	2	4	1	.	$\varphi_{3,0} = 10_2$
$352_1 = \chi_{30+}$	4	.	.	2	2	.	$\varphi_{4,0} = 34_1$
$1120_1 = \chi_{31+}$	16	8	8	8	2	4	$\varphi_{5+} = 140_1$
							$\varphi_{7,0} = 98_1$

Block 2:	φ_{8+}	φ_{9+}	φ_{10+}	φ_{11+}	φ_{12+}	
$42_1 = \chi_{32+}$	1	1	.	.	.	
$90_1 = \chi_{33+}$	.	.	1	.	.	
$90_2 = \chi_{34+}$	.	.	.	1	.	
$198_1 = \chi_{35+}$	.	1	.	.	1	
$210_5 = \chi_{36+}$	.	1	1	1	.	
$210_6 = \chi_{37+}$	1	1	.	.	1	
$420_1 = \chi_{38+}$	1	2	1	1	1	
$462_1 = \chi_{39+}$	2	3	1	1	1	
$462_2 = \chi_{40+}$	2	3	1	1	1	
$660_1 = \chi_{41+}$	2	4	1	1	2	
$132_1 = \chi_{43+}$	1	1	1	.	.	
$132_2 = \chi_{44+}$	1	1	.	1	.	
$240_1 = \chi_{45+}$	1	2	.	.	1	$\varphi_{8+} = 12_1$
$252_2 = \chi_{46+}$	2	2	.	.	1	$\varphi_{9+} = 30_1$
$252_3 = \chi_{47+}$	1	2	1	1	.	$\varphi_{10+} = 90_1$
$420_2 = \chi_{48+}$	1	2	1	1	1	$\varphi_{11+} = 90_2$
$420_3 = \chi_{49+}$	1	2	1	1	1	$\varphi_{12+} = 168_1$
$420_4 = \chi_{50+}$	1	2	1	1	1	
$660_2 = \chi_{51+}$	2	4	1	1	2	
$240_2 = \chi_{53+}$	1	2	.	.	1	
$240_3 = \chi_{53*17+}$	1	2	.	.	1	
$240_4 = \chi_{53*7+}$	1	2	.	.	1	
$240_5 = \chi_{54+}$	1	2	.	.	1	
$288_3 = \chi_{55+}$	.	1	.	1	1	
$288_4 = \chi_{55*29+}$	.	1	.	1	1	
$288_5 = \chi_{56+}$	.	1	1	.	1	
$288_6 = \chi_{56*29+}$	.	1	1	.	1	
$672_1 = \chi_{57+}$	2	4	2	2	1	
$672_2 = \chi_{57*89+}$	3	4	1	1	2	
$672_3 = \chi_{57*67+}$	2	4	2	2	1	
$672_4 = \chi_{58+}$	3	4	1	1	2	

Block 3:	φ_{13+}
$768_1 = \chi_{42+}$	1
$768_2 = \chi_{52+}$	1
$768_3 = \chi_{59+}$	1
$768_4 = \chi_{59*5+}$	1

$$\varphi_{13+} = 768_1$$