

$He.2 \pmod{3}$

	blocks	defect	matrix
$G :$	1	3	13×7
	2	3	13×7
	3	2	9×5
	4	1	3×2
	5	1	3×2
	6	1	3×2
	7	0	$22950_1 = \chi_{23+}, \varphi_{20+}$

Block 1:	$\varphi_{1,0}$	$\varphi_{6,0}$	$\varphi_{9,0}$	$\varphi_{13,0}$	$\varphi_{14,1}$	$\varphi_{15,1}$	$\varphi_{19,0}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.
$680_1 = \chi_{6,0}$	1	1	.	.	.	.	.
$1275_1 = \chi_{9,0}$	.	.	1	.	.	.	.
$4352_1 = \chi_{14,0}$	.	1	.	1	.	.	.
$6272_2 = \chi_{15,1}$	.	.	.	.	.	1	.
$10880_1 = \chi_{22,0}$	1	.	.	.	.	.	1
$11900_1 = \chi_{25,0}$	1	1	1	1	.	1	.
$13720_2 = \chi_{26,1}$	1	.	1	.	1	1	.
$17493_2 = \chi_{28,1}$	1	.	1	1	.	2	.
$20825_1 = \chi_{29,0}$	1	.	.	1	.	1	1
$21504_1 = \chi_{30,0}$	1	1	.	1	.	1	1
$21504_3 = \chi_{31,0}$	1	1	.	1	.	1	1
$23324_1 = \chi_{33,0}$	1	.	.	.	1	1	1

$$\begin{aligned}
\varphi_{1,0} &= 1_1 \\
\varphi_{6,0} &= 679_1 \\
\varphi_{9,0} &= 1275_1 \\
\varphi_{13,0} &= 3673_1 \\
\varphi_{14,1} &= 6172_2 \\
\varphi_{15,1} &= 6272_2 \\
\varphi_{19,0} &= 10879_1
\end{aligned}$$

Block 2:	$\varphi_{1,1}$	$\varphi_{6,1}$	$\varphi_{9,1}$	$\varphi_{13,1}$	$\varphi_{14,0}$	$\varphi_{15,0}$	$\varphi_{19,1}$
$1_2 = \chi_{1,1}$	1	.	.	.	.	.	.
$680_2 = \chi_{6,1}$	1	1	.	.	.	.	.
$1275_2 = \chi_{9,1}$	.	.	1	.	.	.	.
$4352_2 = \chi_{14,1}$	.	1	.	1	.	.	.
$6272_1 = \chi_{15,0}$	.	.	.	.	.	1	.
$10880_2 = \chi_{22,1}$	1	.	.	.	.	.	1
$11900_2 = \chi_{25,1}$	1	1	1	1	.	1	.
$13720_1 = \chi_{26,0}$	1	.	1	.	1	1	.
$17493_1 = \chi_{28,0}$	1	.	1	1	.	2	.
$20825_2 = \chi_{29,1}$	1	.	.	1	.	1	1
$21504_2 = \chi_{30,1}$	1	1	.	1	.	1	1
$21504_4 = \chi_{31,1}$	1	1	.	1	.	1	1
$23324_2 = \chi_{33,1}$	1	.	.	.	1	1	1

$$\begin{aligned}
\varphi_{1,1} &= 1_2 \\
\varphi_{6,1} &= 679_2 \\
\varphi_{9,1} &= 1275_2 \\
\varphi_{13,1} &= 3673_2 \\
\varphi_{14,0} &= 6172_1 \\
\varphi_{15,0} &= 6272_1 \\
\varphi_{19,1} &= 10879_2
\end{aligned}$$

Block 3:	φ_{2+}	φ_{7+}	φ_{10+}	$\varphi_{12,0}$	$\varphi_{12,1}$	
$102_1 = \chi_{2+}$	1	.	.	.	.	
$2058_1 = \chi_{7+}$	.	1	.	.	.	$\varphi_{2+} = 102_1$
$2550_1 = \chi_{10+}$	.	.	1	.	.	$\varphi_{7+} = 2058_1$
$1920_1 = \chi_{12,0}$	.	.	.	1	.	$\varphi_{10+} = 2550_1$
$1920_2 = \chi_{12,1}$	.	.	.	.	1	$\varphi_{12,0} = 1920_1$
$4080_1 = \chi_{13,0}$	1	1	.	1	.	$\varphi_{12,1} = 1920_2$
$4080_2 = \chi_{13,1}$	1	1	.	.	1	
$6528_1 = \chi_{16,0}$	.	1	1	1	.	
$6528_2 = \chi_{16,1}$	.	1	1	.	1	

Block 4:	φ_{4+}	φ_{16+}	
$306_1 = \chi_{4+}$	1	.	$\varphi_{4+} = 306_1$
$14994_1 = \chi_{17+}$	.	1	$\varphi_{16+} = 14994_1$
$15300_1 = \chi_{20+}$	1	1	

Block 5:	$\varphi_{18,0}$	$\varphi_{22,1}$	
$7650_1 = \chi_{19,0}$	1	.	$\varphi_{18,0} = 7650_1$
$14400_2 = \chi_{27,1}$	.	1	$\varphi_{22,1} = 14400_2$
$22050_2 = \chi_{32,1}$	1	1	

Block 6:	$\varphi_{18,1}$	$\varphi_{22,0}$	
$7650_2 = \chi_{19,1}$	1	.	$\varphi_{18,1} = 7650_2$
$14400_1 = \chi_{27,0}$	.	1	$\varphi_{22,0} = 14400_1$
$22050_1 = \chi_{32,0}$	1	1	