

He.2 (mod 7)

	blocks	defect	matrix
<i>G</i> :	1	3	31×20
	2	0	$2058_1 = \chi_{7+}, \varphi_{6+}$
	3	1	7×6
	4	0	$13720_1 = \chi_{26,0}, \varphi_{15,0}$
	5	0	$13720_2 = \chi_{26,1}, \varphi_{15,1}$
	6	0	$17493_1 = \chi_{28,0}, \varphi_{17,0}$
	7	0	$17493_2 = \chi_{28,1}, \varphi_{17,1}$
	8	0	$23324_1 = \chi_{33,0}, \varphi_{18,0}$
	9	0	$23324_2 = \chi_{33,1}, \varphi_{18,1}$

Block 1:	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{2,0}$	$\varphi_{2,1}$	$\varphi_{3,0}$	$\varphi_{3,1}$	$\varphi_{4,0}$	$\varphi_{4,1}$	$\varphi_{5,0}$	$\varphi_{5,1}$	$\varphi_{8,0}$	$\varphi_{8,1}$	$\varphi_{9,0}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	.	1	.	.	.	.	.	.	.	.	.	.	.
$102_1 = \chi_{2+}$	1	1	1	1	.	.	.	.	.	.	.	.	.
$306_1 = \chi_{4+}$	.	.	.	.	1	1	.	.	.	.	.	.	.
$680_1 = \chi_{6,0}$	1	.	1	1	1	.	1	.	.	.	.	.	.
$680_2 = \chi_{6,1}$	.	1	1	1	.	1	.	1	.	.	.	.	.
$1275_1 = \chi_{9,0}$	.	1	1	.	.	.	.	1	1	.	.	.	.
$1275_2 = \chi_{9,1}$	1	.	.	1	.	.	1	.	.	1	.	.	.
$2550_1 = \chi_{10+}$	.	.	1	1	1	1	.	.	.	.	1	1	.
$1920_1 = \chi_{12,0}$	.	.	1	.	.	.	.	.	1	.	1	.	.
$1920_2 = \chi_{12,1}$	.	.	.	1	.	.	.	.	.	1	.	1	.
$4080_1 = \chi_{13,0}$	.	.	.	.	.	.	1	.	.	.	.	.	.
$4080_2 = \chi_{13,1}$	.	.	.	.	.	.	.	1	.	.	.	.	.
$4352_1 = \chi_{14,0}$	.	.	1	.	1	1	.	1	1	.	1	.	1
$4352_2 = \chi_{14,1}$	.	.	.	1	1	1	1	.	.	1	.	1	.
$6528_1 = \chi_{16,0}$	.	.	.	.	1	.	1	.	.	.	.	.	1
$6528_2 = \chi_{16,1}$	.	.	.	.	.	1	.	1	.	.	.	.	.
$7650_1 = \chi_{19,0}$	.	.	.	.	.	.	1	.	.	1	.	1	.
$7650_2 = \chi_{19,1}$	.	.	.	.	.	.	.	1	1	.	1	.	1
$15300_1 = \chi_{20+}$	.	.	1	1	1	1	1	1	.	.	1	1	1
$10880_1 = \chi_{22,0}$	.	.	.	.	.	.	.	.	.	.	.	1	.
$10880_2 = \chi_{22,1}$	.	.	.	.	.	.	.	.	.	.	1	.	.
$22950_1 = \chi_{23+}$	.	.	.	.	.	.	.	.	.	.	1	1	.
$11900_1 = \chi_{25,0}$	.	.	.	1	1	.	2	.	.	1	.	2	.
$11900_2 = \chi_{25,1}$	.	.	1	.	.	1	.	2	1	.	2	.	.
$14400_1 = \chi_{27,0}$	.	.	.	.	1	.	.	.	.	.	1	1	1
$14400_2 = \chi_{27,1}$	.	.	.	.	.	1	.	.	.	.	1	1	.
$21504_1 = \chi_{30,0}$	.	.	.	.	.	.	1	.	.	.	.	1	.
$21504_2 = \chi_{30,1}$	.	.	.	.	.	.	.	1	.	.	1	.	1
$21504_3 = \chi_{31,0}$	.	.	.	.	.	.	1	.	.	.	.	1	.
$21504_4 = \chi_{31,1}$	.	.	.	.	.	.	.	1	.	.	1	.	1

(Block 1:)	$\varphi_{9,1}$	$\varphi_{10,0}$	$\varphi_{10,1}$	$\varphi_{11,0}$	$\varphi_{11,1}$	$\varphi_{12,0}$	$\varphi_{12,1}$	
$1_1 = \chi_{1,0}$	.	.	.	.	.	.	.	
$1_2 = \chi_{1,1}$	.	.	.	.	.	.	.	
$102_1 = \chi_{2+}$	.	.	.	.	.	.	.	
$306_1 = \chi_{4+}$	.	.	.	.	.	.	.	
$680_1 = \chi_{6,0}$	.	.	.	.	.	.	.	$\varphi_{1,0} = 1_1$
$680_2 = \chi_{6,1}$	.	.	.	.	.	.	.	$\varphi_{1,1} = 1_2$
$1275_1 = \chi_{9,0}$	.	.	.	.	.	.	.	$\varphi_{2,0} = 50_1$
$1275_2 = \chi_{9,1}$	.	.	.	.	.	.	.	$\varphi_{2,1} = 50_2$
$2550_1 = \chi_{10+}$	.	.	.	.	.	.	.	$\varphi_{3,0} = 153_1$
$1920_1 = \chi_{12,0}$	.	.	.	.	.	.	.	$\varphi_{3,1} = 153_2$
$1920_2 = \chi_{12,1}$	.	.	.	.	.	.	.	$\varphi_{4,0} = 426_1$
$4080_1 = \chi_{13,0}$	.	1	.	.	.	.	.	$\varphi_{4,1} = 426_2$
$4080_2 = \chi_{13,1}$	.	.	1	.	.	.	.	$\varphi_{5,0} = 798_1$
$4352_1 = \chi_{14,0}$	.	.	.	.	.	.	.	$\varphi_{5,1} = 798_2$
$4352_2 = \chi_{14,1}$	1	.	.	.	.	.	.	$\varphi_{8,0} = 1072_1$
$6528_1 = \chi_{16,0}$	.	.	.	1	.	.	.	$\varphi_{8,1} = 1072_2$
$6528_2 = \chi_{16,1}$	1	.	.	.	1	.	.	$\varphi_{9,0} = 1700_1$
$7650_1 = \chi_{19,0}$	1	1	.	.	.	.	.	$\varphi_{9,1} = 1700_2$
$7650_2 = \chi_{19,1}$	.	.	1	.	.	.	.	$\varphi_{10,0} = 3654_1$
$15300_1 = \chi_{20+}$	1	.	.	1	1	.	.	$\varphi_{10,1} = 3654_2$
$10880_1 = \chi_{22,0}$	.	1	.	.	.	1	.	$\varphi_{11,0} = 4249_1$
$10880_2 = \chi_{22,1}$	.	.	1	.	.	.	1	$\varphi_{11,1} = 4249_2$
$22950_1 = \chi_{23+}$	.	.	.	1	1	1	1	$\varphi_{12,0} = 6154_1$
$11900_1 = \chi_{25,0}$	.	1	.	1	.	.	.	$\varphi_{12,1} = 6154_2$
$11900_2 = \chi_{25,1}$	.	.	1	.	1	.	.	
$14400_1 = \chi_{27,0}$	.	.	.	1	.	.	1	
$14400_2 = \chi_{27,1}$	1	.	.	.	1	1	.	
$21504_1 = \chi_{30,0}$	1	1	.	1	1	1	.	
$21504_2 = \chi_{30,1}$	.	.	1	1	1	.	1	
$21504_3 = \chi_{31,0}$	1	1	.	1	1	1	.	
$21504_4 = \chi_{31,1}$	.	.	1	1	1	.	1	

Block 3:	$\varphi_{13,0}$	$\varphi_{13,1}$	$\varphi_{14,0}$	$\varphi_{14,1}$	$\varphi_{16,0}$	$\varphi_{16,1}$	
$6272_1 = \chi_{15,0}$	1	.	.	.	.	.	$\varphi_{13,0} = 6272_1$
$6272_2 = \chi_{15,1}$	.	1	.	.	.	.	$\varphi_{13,1} = 6272_2$
$14994_1 = \chi_{17+}$	.	.	1	1	.	.	$\varphi_{14,0} = 7497_1$
$20825_1 = \chi_{29,0}$	1	.	.	.	1	.	$\varphi_{14,1} = 7497_2$
$20825_2 = \chi_{29,1}$	.	1	.	.	.	1	$\varphi_{16,0} = 14553_1$
$22050_1 = \chi_{32,0}$	.	.	.	1	1	.	$\varphi_{16,1} = 14553_2$
$22050_2 = \chi_{32,1}$	.	.	1	.	.	1	