

$He.2 \pmod{5}$

	blocks	defect	matrix		blocks	defect	matrix
$G :$	1	2	20×16		10	0	$22950_1 = \chi_{23+}, \varphi_{25+}$
	2	1	5×4		11	0	$11900_1 = \chi_{25,0}, \varphi_{27,0}$
	3	1	5×4		12	0	$11900_2 = \chi_{25,1}, \varphi_{27,1}$
	4	0	$1275_1 = \chi_{9,0}, \varphi_{11,0}$		13	0	$14400_1 = \chi_{27,0}, \varphi_{28,0}$
	5	0	$1275_2 = \chi_{9,1}, \varphi_{11,1}$		14	0	$14400_2 = \chi_{27,1}, \varphi_{28,1}$
	6	0	$2550_1 = \chi_{10+}, \varphi_{12+}$		15	0	$20825_1 = \chi_{29,0}, \varphi_{29,0}$
	7	0	$7650_1 = \chi_{19,0}, \varphi_{20,0}$		16	0	$20825_2 = \chi_{29,1}, \varphi_{29,1}$
	8	0	$7650_2 = \chi_{19,1}, \varphi_{20,1}$		17	0	$22050_1 = \chi_{32,0}, \varphi_{30,0}$
	9	0	$15300_1 = \chi_{20+}, \varphi_{21+}$		18	0	$22050_2 = \chi_{32,1}, \varphi_{30,1}$

Block 1:	$\varphi_{1,0}$	$\varphi_{1,1}$	φ_{2+}	$\varphi_{4,0}$	$\varphi_{4,1}$	φ_{5+}	φ_{8+}	φ_{14+}	$\varphi_{17,0}$	$\varphi_{17,1}$	$\varphi_{18,0}$	$\varphi_{18,1}$
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$.	1	.	.	.	.	.	.	.	.	.	.
$102_1 = \chi_{2+}$.	.	1	.	.	.	.	.	.	.	.	.
$306_1 = \chi_{4+}$	1	.	.	.	.	.	.
$2058_1 = \chi_{7+}$.	.	.	1	1	.	1	.	.	.	.	.
$4352_1 = \chi_{14,0}$	1	.	1	.	.	.	.	.	.	.	1	.
$4352_2 = \chi_{14,1}$.	1	1	.	.	.	.	.	.	.	.	1
$6272_1 = \chi_{15,0}$	1	1	.	1	.	.	.
$6272_2 = \chi_{15,1}$	1	1	.	.	1	.	.
$6528_1 = \chi_{16,0}$
$6528_2 = \chi_{16,1}$
$14994_1 = \chi_{17+}$.	.	1	.	.	.	.	1	.	.	1	1
$17493_1 = \chi_{28,0}$.	1	.	1	.	.	.	.	.	.	.	.
$17493_2 = \chi_{28,1}$	1	.	.	.	1	.	.	.	.	.	.	.
$21504_1 = \chi_{30,0}$	1	.	.	.	.	.	.	1	.	.	1	.
$21504_2 = \chi_{30,1}$.	1	.	.	.	.	.	1	.	.	.	1
$21504_3 = \chi_{31,0}$	1	.	.	.
$21504_4 = \chi_{31,1}$	1	.	.
$23324_1 = \chi_{33,0}$.	.	.	1	.	.	1	1	1	.	.	.
$23324_2 = \chi_{33,1}$	1	.	1	1	.	1	.	.

(Block 1:)	$\varphi_{19,0}$	$\varphi_{19,1}$	$\varphi_{24,0}$	$\varphi_{24,1}$	
$1_1 = \chi_{1,0}$	
$1_2 = \chi_{1,1}$	$\varphi_{1,0} = 1_1$
$102_1 = \chi_{2+}$	$\varphi_{1,1} = 1_2$
$306_1 = \chi_{4+}$	$\varphi_{2+} = 102_1$
$2058_1 = \chi_{7+}$	$\varphi_{4,0} = 104_1$
$4352_1 = \chi_{14,0}$	$\varphi_{4,1} = 104_2$
$4352_2 = \chi_{14,1}$	$\varphi_{5+} = 306_1$
$6272_1 = \chi_{15,0}$	$\varphi_{8+} = 1850_1$
$6272_2 = \chi_{15,1}$	$\varphi_{14+} = 6394_1$
$6528_1 = \chi_{16,0}$	1	.	.	.	$\varphi_{17,0} = 4116_1$
$6528_2 = \chi_{16,1}$.	1	.	.	$\varphi_{17,1} = 4116_2$
$14994_1 = \chi_{17+}$	$\varphi_{18,0} = 4249_1$
$17493_1 = \chi_{28,0}$	1	.	.	1	$\varphi_{18,1} = 4249_2$
$17493_2 = \chi_{28,1}$.	1	1	.	$\varphi_{19,0} = 6528_1$
$21504_1 = \chi_{30,0}$.	.	1	.	$\varphi_{19,1} = 6528_2$
$21504_2 = \chi_{30,1}$.	.	.	1	$\varphi_{24,0} = 10860_1$
$21504_3 = \chi_{31,0}$	1	.	.	1	$\varphi_{24,1} = 10860_2$
$21504_4 = \chi_{31,1}$.	1	1	.	
$23324_1 = \chi_{33,0}$.	.	.	1	
$23324_2 = \chi_{33,1}$.	.	1	.	

Block 2:	$\varphi_{7,0}$	$\varphi_{10,0}$	$\varphi_{16,1}$	$\varphi_{23,0}$	
$680_1 = \chi_{6,0}$	1	.	.	.	$\varphi_{7,0} = 680_1$
$1920_1 = \chi_{12,0}$	1	1	.	.	$\varphi_{10,0} = 1240_1$
$4080_2 = \chi_{13,1}$	.	.	1	.	$\varphi_{16,1} = 4080_2$
$10880_1 = \chi_{22,0}$	.	1	.	1	$\varphi_{23,0} = 9640_1$
$13720_2 = \chi_{26,1}$	.	.	1	1	

Block 3:	$\varphi_{7,1}$	$\varphi_{10,1}$	$\varphi_{16,0}$	$\varphi_{23,1}$	
$680_2 = \chi_{6,1}$	1	.	.	.	$\varphi_{7,1} = 680_2$
$1920_2 = \chi_{12,1}$	1	1	.	.	$\varphi_{10,1} = 1240_2$
$4080_1 = \chi_{13,0}$	.	.	1	.	$\varphi_{16,0} = 4080_1$
$10880_2 = \chi_{22,1}$	.	1	.	1	$\varphi_{23,1} = 9640_2$
$13720_1 = \chi_{26,0}$	.	.	1	1	