

HN.2 (mod 3)

	blocks	defect	matrix
<i>G</i> :	1	6	42×22
	2	2	9×7
	3	2	9×7
	4	0	$138510_1 = \chi_{15+}, \varphi_{16+}$
	5	1	3×2
	6	1	3×2
	7	0	$2133054_1 = \chi_{30+}, \varphi_{28+}$
	8	0	$2985984_1 = \chi_{44,0}, \varphi_{33,0}$
	9	0	$2985984_2 = \chi_{44,1}, \varphi_{33,1}$
	10	0	$3878280_1 = \chi_{47,0}, \varphi_{35,0}$
	11	0	$3878280_2 = \chi_{47,1}, \varphi_{35,1}$
	12	0	$5103000_1 = \chi_{51,0}, \varphi_{36,0}$
	13	0	$5103000_2 = \chi_{51,1}, \varphi_{36,1}$
	14	0	$5103000_3 = \chi_{52,0}, \varphi_{37,0}$
	15	0	$5103000_4 = \chi_{52,1}, \varphi_{37,1}$
	16	0	$5332635_1 = \chi_{53,0}, \varphi_{38,0}$
	17	0	$5332635_2 = \chi_{53,1}, \varphi_{38,1}$

Block 1:	$\varphi_{1,0}$	$\varphi_{1,1}$	φ_{2+}	$\varphi_{4,0}$	$\varphi_{4,1}$	$\varphi_{5,0}$	$\varphi_{5,1}$	$\varphi_{9,0}$	$\varphi_{9,1}$	φ_{6+}	φ_{10+}
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	.	1	.	.	.	.	.	.	.	.	.
$266_1 = \chi_{2+}$	.	.	1	.	.	.	.	.	.	.	.
$760_1 = \chi_{4,0}$	.	.	.	1	.	.	.	.	.	.	.
$760_2 = \chi_{4,1}$	.	.	.	.	1	.	.	.	.	.	.
$3344_1 = \chi_{5,0}$	.	.	.	.	.	1	.	.	.	.	.
$3344_2 = \chi_{5,1}$	.	.	.	.	.	.	1	.	.	.	.
$17556_1 = \chi_{6+}$	.	.	.	.	.	.	.	.	.	1	.
$9405_1 = \chi_{9,0}$	.	.	1	.	.	.	.	1	.	.	.
$9405_2 = \chi_{9,1}$	.	.	1	.	.	.	.	.	1	.	.
$70224_1 = \chi_{11+}$	.	.	.	.	.	1	1	.	.	.	.
$131670_1 = \chi_{13+}$	1	1	.	1	1	.	.	.	.	1	2
$214016_1 = \chi_{17,0}$	1	.	.	.	1	1	.	1	.	.	.
$214016_2 = \chi_{17,1}$	.	1	.	1	.	.	1	.	1	.	.
$267520_1 = \chi_{18,0}$	.	.	.	.	.	1	.	1	.	.	.
$267520_2 = \chi_{18,1}$	.	.	.	.	.	.	1	.	1	.	.
$365750_1 = \chi_{20,0}$	1	.	1	1	.	1	.	1	1	.	1
$365750_2 = \chi_{20,1}$	.	1	1	.	1	.	1	1	1	.	1
$749056_1 = \chi_{21+}$	.	.	.	2	2	.	.	.	.	1	2
$653125_1 = \chi_{24,0}$	1	.	.	.	1	2	.	1	1	.	1
$653125_2 = \chi_{24,1}$	.	1	.	1	.	.	2	1	1	.	1
$1312500_1 = \chi_{25+}$	1	1	.	.	.	.	.	.	.	.	1
$1436400_1 = \chi_{27+}$	.	.	1	2	2	2	2	2	2	1	2
$1053360_1 = \chi_{29,0}$	.	.	.	3	.	.	.	.	.	1	2
$1053360_2 = \chi_{29,1}$	.	.	.	.	3	.	.	.	.	1	2
$1361920_1 = \chi_{34,0}$	.	.	.	1	2	2	1	1	1	.	2
$1361920_2 = \chi_{34,1}$	.	.	.	2	1	1	2	1	1	.	2
$2723840_1 = \chi_{35+}$	.	.	.	2	2	1	1	1	1	.	2
$2375000_1 = \chi_{40,0}$	1	1	1	2	1	2	1	2	1	.	2
$2375000_2 = \chi_{40,1}$	1	1	1	1	2	1	2	1	2	.	2
$2407680_1 = \chi_{41,0}$	1	1	1	.	1	1	.	.	2	.	2
$2407680_2 = \chi_{41,1}$	1	1	1	1	.	.	1	2	.	.	2
$2661120_1 = \chi_{42,0}$	1	1	1	2	2	1	1	2	2	.	3
$2661120_2 = \chi_{42,1}$	1	1	1	2	2	1	1	2	2	.	3
$3200000_1 = \chi_{45,0}$	.	1	1	2	1	1	1	.	2	.	3
$3200000_2 = \chi_{45,1}$	1	.	1	1	2	1	1	2	.	.	3
$3424256_1 = \chi_{46,0}$	1	1	1	2	3	2	.	1	2	1	4
$3424256_2 = \chi_{46,1}$	1	1	1	3	2	.	2	2	1	1	4
$4156250_1 = \chi_{48,0}$	.	1	.	4	3	2	2	1	1	1	5
$4156250_2 = \chi_{48,1}$	1	.	.	3	4	2	2	1	1	1	5

(Block 1:)	φ_{13+}	$\varphi_{18,0}$	$\varphi_{18,1}$	$\varphi_{19,0}$	$\varphi_{19,1}$	$\varphi_{20,0}$	$\varphi_{20,1}$	φ_{22+}	$\varphi_{27,0}$	$\varphi_{27,1}$
$1_1 = \chi_{1,0}$	.	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	.	.	.	.	.	.	.	.	.	.
$266_1 = \chi_{2+}$	.	.	.	.	.	.	.	.	.	.
$760_1 = \chi_{4,0}$	.	.	.	.	.	.	.	.	.	.
$760_2 = \chi_{4,1}$	.	.	.	.	.	.	.	.	.	.
$3344_1 = \chi_{5,0}$	.	.	.	.	.	.	.	.	.	.
$3344_2 = \chi_{5,1}$	.	.	.	.	.	.	.	.	.	.
$17556_1 = \chi_{6+}$	.	.	.	.	.	.	.	.	.	.
$9405_1 = \chi_{9,0}$	.	.	.	.	.	.	.	.	.	.
$9405_2 = \chi_{9,1}$	.	.	.	.	.	.	.	.	.	.
$70224_1 = \chi_{11+}$	1	.	.	.	.	.	.	.	.	.
$131670_1 = \chi_{13+}$	1	.	.	.	.	.	.	.	.	.
$214016_1 = \chi_{17,0}$	1	1	.	.	.	.	.	.	.	.
$214016_2 = \chi_{17,1}$	1	.	1	.	.	.	.	.	.	.
$267520_1 = \chi_{18,0}$	.	.	.	.	.	1	.	.	.	.
$267520_2 = \chi_{18,1}$	.	.	.	.	.	.	1	.	.	.
$365750_1 = \chi_{20,0}$	1	.	.	.	.	1	.	.	.	.
$365750_2 = \chi_{20,1}$	1	.	.	.	.	.	1	.	.	.
$749056_1 = \chi_{21+}$	.	.	.	.	.	.	.	1	.	.
$653125_1 = \chi_{24,0}$	1	1	.	1	.	1	.	.	.	.
$653125_2 = \chi_{24,1}$	1	.	1	.	1	.	1	.	.	.
$1312500_1 = \chi_{25+}$	.	.	.	1	1	.	.	.	.	.
$1436400_1 = \chi_{27+}$	2	.	.	.	.	1	1	1	.	.
$1053360_1 = \chi_{29,0}$	1	.	1	.	.	.	.	.	1	.
$1053360_2 = \chi_{29,1}$	1	1	.	.	.	.	.	.	.	1
$1361920_1 = \chi_{34,0}$	1	1	.	1	.	1	.	1	.	.
$1361920_2 = \chi_{34,1}$	1	.	1	.	1	.	1	1	.	.
$2723840_1 = \chi_{35+}$	.	.	.	1	1	.	.	2	.	.
$2375000_1 = \chi_{40,0}$	1	.	.	1	1	1	.	1	.	.
$2375000_2 = \chi_{40,1}$	1	.	.	1	1	.	1	1	.	.
$2407680_1 = \chi_{41,0}$	2	1	.	2	.	.	.	.	1	.
$2407680_2 = \chi_{41,1}$	2	.	1	.	2	.	.	.	.	1
$2661120_1 = \chi_{42,0}$	1	.	.	1	1	1	1	1	.	.
$2661120_2 = \chi_{42,1}$	1	.	.	1	1	1	1	1	.	.
$3200000_1 = \chi_{45,0}$	1	.	1	2	1	.	.	1	1	.
$3200000_2 = \chi_{45,1}$	1	1	.	1	2	.	.	1	.	1
$3424256_1 = \chi_{46,0}$	2	1	.	2	.	1	.	1	1	.
$3424256_2 = \chi_{46,1}$	2	.	1	.	2	.	1	1	.	1
$4156250_1 = \chi_{48,0}$	2	1	1	2	1	.	.	2	1	.
$4156250_2 = \chi_{48,1}$	2	1	1	1	2	.	.	2	.	1

(Block 1:)	φ_{25+}
$1_1 = \chi_{1,0}$	.
$1_2 = \chi_{1,1}$	.
$266_1 = \chi_{2+}$	.
$760_1 = \chi_{4,0}$	.
$760_2 = \chi_{4,1}$	.
$3344_1 = \chi_{5,0}$	.
$3344_2 = \chi_{5,1}$	.
$17556_1 = \chi_{6+}$	.
$9405_1 = \chi_{9,0}$	.
$9405_2 = \chi_{9,1}$	.
$70224_1 = \chi_{11+}$	.
$131670_1 = \chi_{13+}$	.
$214016_1 = \chi_{17,0}$	.
$214016_2 = \chi_{17,1}$	.
$267520_1 = \chi_{18,0}$	.
$267520_2 = \chi_{18,1}$	.
$365750_1 = \chi_{20,0}$	.
$365750_2 = \chi_{20,1}$	.
$749056_1 = \chi_{21+}$	.
$653125_1 = \chi_{24,0}$	.
$653125_2 = \chi_{24,1}$	.
$1312500_1 = \chi_{25+}$	1
$1436400_1 = \chi_{27+}$	.
$1053360_1 = \chi_{29,0}$	.
$1053360_2 = \chi_{29,1}$	.
$1361920_1 = \chi_{34,0}$	.
$1361920_2 = \chi_{34,1}$	.
$2723840_1 = \chi_{35+}$	1
$2375000_1 = \chi_{40,0}$	1
$2375000_2 = \chi_{40,1}$	1
$2407680_1 = \chi_{41,0}$	1
$2407680_2 = \chi_{41,1}$	1
$2661120_1 = \chi_{42,0}$	1
$2661120_2 = \chi_{42,1}$	1
$3200000_1 = \chi_{45,0}$	1
$3200000_2 = \chi_{45,1}$	1
$3424256_1 = \chi_{46,0}$	1
$3424256_2 = \chi_{46,1}$	1
$4156250_1 = \chi_{48,0}$	1
$4156250_2 = \chi_{48,1}$	1

(Block 1:)	$\varphi_{1,0}$	$\varphi_{1,1}$	φ_{2+}	$\varphi_{4,0}$	$\varphi_{4,1}$	$\varphi_{5,0}$	$\varphi_{5,1}$	$\varphi_{9,0}$	$\varphi_{9,1}$	φ_{6+}	φ_{10+}
$5878125_1 = \chi_{54,0}$	1	1	1	4	5	3	2	1	2	1	6
$5878125_2 = \chi_{54,1}$	1	1	1	5	4	2	3	2	1	1	6

(Block 1:)	φ_{13+}	$\varphi_{18,0}$	$\varphi_{18,1}$	$\varphi_{19,0}$	$\varphi_{19,1}$	$\varphi_{20,0}$	$\varphi_{20,1}$	φ_{22+}	$\varphi_{27,0}$	$\varphi_{27,1}$
$5878125_1 = \chi_{54,0}$	2	1	.	3	1	.	.	3	1	.
$5878125_2 = \chi_{54,1}$	2	.	1	1	3	.	.	3	.	1

(Block 1:)	φ_{25+}
$5878125_1 = \chi_{54,0}$	2
$5878125_2 = \chi_{54,1}$	2

- $\varphi_{1,0} = 1_1$
- $\varphi_{1,1} = 1_2$
- $\varphi_{2+} = 266_1$
- $\varphi_{4,0} = 760_1$
- $\varphi_{4,1} = 760_2$
- $\varphi_{5,0} = 3344_1$
- $\varphi_{5,1} = 3344_2$
- $\varphi_{9,0} = 9139_1$
- $\varphi_{9,1} = 9139_2$
- $\varphi_{6+} = 17556_1$
- $\varphi_{10+} = 24528_1$
- $\varphi_{13+} = 63536_1$
- $\varphi_{18,0} = 137236_1$
- $\varphi_{18,1} = 137236_2$
- $\varphi_{19,0} = 147061_1$
- $\varphi_{19,1} = 147061_2$
- $\varphi_{20,0} = 255037_1$
- $\varphi_{20,1} = 255037_2$
- $\varphi_{22+} = 679404_1$
- $\varphi_{27,0} = 783696_1$
- $\varphi_{27,1} = 783696_2$
- $\varphi_{25+} = 993848_1$

Block 2:	$\varphi_{8,0}$	$\varphi_{12,0}$	$\varphi_{15,0}$	$\varphi_{21,0}$	$\varphi_{30,0}$	$\varphi_{31,0}$	$\varphi_{34,0}$
$8910_1 = \chi_{8,0}$	1	.	.	.	.	.	.
$16929_1 = \chi_{10,0}$	.	1	.	.	.	.	.
$270864_1 = \chi_{19,0}$	.	.	.	1	.	.	.
$1185030_1 = \chi_{32,0}$	1	1	.	.	1	.	.
$1354320_2 = \chi_{33,1}$	1	.	1	.	.	1	.
$1575936_1 = \chi_{37,0}$	.	.	.	1	.	1	.
$2784375_1 = \chi_{43,0}$	1	.	1	1	1	1	.
$4561920_1 = \chi_{49,0}$	.	.	1	.	1	.	1
$4809375_1 = \chi_{50,0}$	.	1	.	1	1	.	1

$$\begin{array}{ll}
\varphi_{8,0} = 8910_1 & \varphi_{30,0} = 1159191_1 \\
\varphi_{12,0} = 16929_1 & \varphi_{31,0} = 1305072_1 \\
\varphi_{15,0} = 40338_1 & \varphi_{34,0} = 3362391_1 \\
\varphi_{21,0} = 270864_1 &
\end{array}$$

Block 3:	$\varphi_{8,1}$	$\varphi_{12,1}$	$\varphi_{15,1}$	$\varphi_{21,1}$	$\varphi_{30,1}$	$\varphi_{31,1}$	$\varphi_{34,1}$
$8910_2 = \chi_{8,1}$	1	.	.	.	.	.	.
$16929_2 = \chi_{10,1}$	.	1	.	.	.	.	.
$270864_2 = \chi_{19,1}$	.	.	.	1	.	.	.
$1185030_2 = \chi_{32,1}$	1	1	.	.	1	.	.
$1354320_1 = \chi_{33,0}$	1	.	1	.	.	1	.
$1575936_2 = \chi_{37,1}$	.	.	.	1	.	1	.
$2784375_2 = \chi_{43,1}$	1	.	1	1	1	1	.
$4561920_2 = \chi_{49,1}$	.	.	1	.	1	.	1
$4809375_2 = \chi_{50,1}$	.	1	.	1	1	.	1

$$\begin{array}{ll}
\varphi_{8,1} = 8910_2 & \varphi_{30,1} = 1159191_2 \\
\varphi_{12,1} = 16929_2 & \varphi_{31,1} = 1305072_2 \\
\varphi_{15,1} = 40338_2 & \varphi_{34,1} = 3362391_2 \\
\varphi_{21,1} = 270864_2 &
\end{array}$$

Block 5:	$\varphi_{24,0}$	$\varphi_{32,0}$
$406296_1 = \chi_{23,0}$	1	.
$1625184_1 = \chi_{38,0}$	.	1
$2031480_1 = \chi_{39,0}$	1	1

$$\begin{array}{ll}
\varphi_{24,0} = 406296_1 \\
\varphi_{32,0} = 1625184_1
\end{array}$$

Block 6:	$\varphi_{24,1}$	$\varphi_{32,1}$
$406296_2 = \chi_{23,1}$	1	.
$1625184_2 = \chi_{38,1}$	.	1
$2031480_2 = \chi_{39,1}$	1	1

$$\begin{array}{ll}
\varphi_{24,1} = 406296_2 \\
\varphi_{32,1} = 1625184_2
\end{array}$$