

$$HN \pmod{3}$$

	blocks	defect	matrix
$G :$	1	6	33×20
	2	2	9×7
	3	0	$69255_1 = \chi_{15}, \varphi_{16}$
	$4 = \overline{3}$	0	$69255_2 = \chi_{16}, \varphi_{17}$
	5	1	3×2
	6	0	$1066527_1 = \chi_{30}, \varphi_{28}$
	7	0	$1066527_2 = \chi_{31}, \varphi_{29}$
	8	0	$2985984_1 = \chi_{44}, \varphi_{33}$
	9	0	$3878280_1 = \chi_{47}, \varphi_{35}$
	10	0	$5103000_1 = \chi_{51}, \varphi_{36}$
	11	0	$5103000_2 = \chi_{52}, \varphi_{37}$
	12	0	$5332635_1 = \chi_{53}, \varphi_{38}$

Block 1:	φ_1	φ_2	φ_3	φ_4	φ_5	φ_6	φ_7	φ_9	φ_{10}	φ_{11}	φ_{13}	φ_{14}	φ_{18}	φ_{19}
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	.	.	.	.	.	.
$133_1 = \chi_2$	.	1	.	.	.	.	.	.	.	.	.	.	.	.
$133_2 = \chi_3$	.	.	1	.	.	.	.	.	.	.	.	.	.	.
$760_1 = \chi_4$	.	.	.	1	.	.	.	.	.	.	.	.	.	.
$3344_1 = \chi_5$	.	.	.	.	1	.	.	.	.	.	.	.	.	.
$8778_1 = \chi_6$	.	.	.	.	.	1	.	.	.	.	.	.	.	.
$8778_2 = \chi_7$	.	.	.	.	.	.	1	.	.	.	.	.	.	.
$9405_1 = \chi_9$	.	1	1	.	.	.	.	1	.	.	.	.	.	.
$35112_1 = \chi_{11}$	.	.	.	.	1	.	.	.	.	.	1	.	.	.
$35112_2 = \chi_{12}$	.	.	.	.	1	.	.	.	.	.	.	1	.	.
$65835_1 = \chi_{13}$	1	.	.	1	.	1	.	.	1	1	1	.	.	.
$65835_2 = \chi_{14}$	1	.	.	1	.	.	1	.	1	1	.	1	.	.
$214016_1 = \chi_{17}$	1	.	.	1	1	.	.	1	.	.	1	1	1	.
$267520_1 = \chi_{18}$	.	.	.	.	1	.	.	1	.	.	.	.	.	.
$365750_1 = \chi_{20}$	1	1	1	1	1	.	.	2	1	1	1	1	.	.
$374528_1 = \chi_{21}$	.	.	.	2	.	.	1	.	1	1	.	.	.	.
$374528_2 = \chi_{22}$	.	.	.	2	.	1	.	.	1	1	.	.	.	.
$653125_1 = \chi_{24}$	1	.	.	1	2	.	.	2	1	1	1	1	1	1
$656250_1 = \chi_{25}$	1	.	.	.	.	.	.	.	1	.	.	.	.	1
$656250_2 = \chi_{26}$	1	.	.	.	.	.	.	.	.	1	.	.	.	1
$718200_1 = \chi_{27}$	.	.	1	2	2	.	1	2	1	1	1	1	.	.
$718200_2 = \chi_{28}$	.	1	.	2	2	1	.	2	1	1	1	1	.	.
$1053360_1 = \chi_{29}$	.	.	.	3	.	1	1	.	2	2	1	1	1	.
$1361920_1 = \chi_{34}$	.	.	.	3	3	.	.	2	2	2	1	1	1	1
$1361920_2 = \chi_{35}$	.	.	.	2	1	.	.	1	1	1	.	.	.	1
$1361920_3 = \chi_{36}$	.	.	.	2	1	.	.	1	1	1	.	.	.	1
$2375000_1 = \chi_{40}$	2	1	1	3	3	.	.	3	2	2	1	1	.	2
$2407680_1 = \chi_{41}$	2	1	1	1	1	.	.	2	2	2	2	2	1	2
$2661120_1 = \chi_{42}$	2	1	1	4	2	.	.	4	3	3	1	1	.	2
$3200000_1 = \chi_{45}$	1	1	1	3	2	.	.	2	3	3	1	1	1	3
$3424256_1 = \chi_{46}$	2	1	1	5	2	1	1	3	4	4	2	2	1	2
$4156250_1 = \chi_{48}$	1	.	.	7	4	1	1	2	5	5	2	2	2	3
$5878125_1 = \chi_{54}$	2	1	1	9	5	1	1	3	6	6	2	2	1	4

(Block 1:)	φ_{20}	φ_{22}	φ_{23}	φ_{25}	φ_{26}	φ_{27}	
$1_1 = \chi_1$	.	.	.	.	.	.	
$133_1 = \chi_2$	.	.	.	.	.	.	
$133_2 = \chi_3$	.	.	.	.	.	.	
$760_1 = \chi_4$	.	.	.	.	.	.	
$3344_1 = \chi_5$	.	.	.	.	.	.	
$8778_1 = \chi_6$	.	.	.	.	.	.	$\varphi_1 = 1_1$
$8778_2 = \chi_7$	.	.	.	.	.	.	$\varphi_2 = 133_1$
$9405_1 = \chi_9$	.	.	.	.	.	.	$\varphi_3 = 133_2$
$35112_1 = \chi_{11}$	.	.	.	.	.	.	$\varphi_4 = 760_1$
$35112_2 = \chi_{12}$	.	.	.	.	.	.	$\varphi_5 = 3344_1$
$65835_1 = \chi_{13}$	.	.	.	.	.	.	$\varphi_6 = 8778_1$
$65835_2 = \chi_{14}$	.	.	.	.	.	.	$\varphi_7 = 8778_2$
$214016_1 = \chi_{17}$	.	.	.	.	.	.	$\varphi_9 = 9139_1$
$267520_1 = \chi_{18}$	1	.	.	.	.	.	$\varphi_{10} = 12264_1$
$365750_1 = \chi_{20}$	1	.	.	.	.	.	$\varphi_{11} = 12264_2$
$374528_1 = \chi_{21}$	.	1	.	.	.	.	$\varphi_{13} = 31768_1$
$374528_2 = \chi_{22}$	.	.	1	.	.	.	$\varphi_{14} = 31768_2$
$653125_1 = \chi_{24}$	1	.	.	.	.	.	$\varphi_{18} = 137236_1$
$656250_1 = \chi_{25}$	.	.	.	1	.	.	$\varphi_{19} = 147061_1$
$656250_2 = \chi_{26}$	.	.	.	.	1	.	$\varphi_{20} = 255037_1$
$718200_1 = \chi_{27}$	1	1	.	.	.	.	$\varphi_{22} = 339702_1$
$718200_2 = \chi_{28}$	1	.	1	.	.	.	$\varphi_{23} = 339702_2$
$1053360_1 = \chi_{29}$	.	.	.	.	.	1	$\varphi_{25} = 496924_1$
$1361920_1 = \chi_{34}$	1	1	1	.	.	.	$\varphi_{26} = 496924_2$
$1361920_2 = \chi_{35}$	.	1	1	.	1	.	$\varphi_{27} = 783696_1$
$1361920_3 = \chi_{36}$	.	1	1	1	.	.	
$2375000_1 = \chi_{40}$	1	1	1	1	1	.	
$2407680_1 = \chi_{41}$	.	.	.	1	1	1	
$2661120_1 = \chi_{42}$	2	1	1	1	1	.	
$3200000_1 = \chi_{45}$	.	1	1	1	1	1	
$3424256_1 = \chi_{46}$	1	1	1	1	1	1	
$4156250_1 = \chi_{48}$	.	2	2	1	1	1	
$5878125_1 = \chi_{54}$	.	3	3	2	2	1	

Block 2:	φ_8	φ_{12}	φ_{15}	φ_{21}	φ_{30}	φ_{31}	φ_{34}	
$8910_1 = \chi_8$	1	.	.	.	.	.	.	$\varphi_8 = 8910_1$
$16929_1 = \chi_{10}$	.	1	.	.	.	.	.	$\varphi_{12} = 16929_1$
$270864_1 = \chi_{19}$	.	.	.	1	.	.	.	$\varphi_{15} = 40338_1$
$1185030_1 = \chi_{32}$	1	1	.	.	1	.	.	$\varphi_{21} = 270864_1$
$1354320_1 = \chi_{33}$	1	.	1	.	.	1	.	$\varphi_{30} = 1159191_1$
$1575936_1 = \chi_{37}$	.	.	.	1	.	1	.	$\varphi_{31} = 1305072_1$
$2784375_1 = \chi_{43}$	1	.	1	1	1	1	.	$\varphi_{34} = 3362391_1$
$4561920_1 = \chi_{49}$	.	.	1	.	1	.	1	
$4809375_1 = \chi_{50}$	.	1	.	1	1	.	1	

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