

$$HN \pmod{5}$$

	blocks	defect	matrix
$G :$	1	6	45×16
	2	1	5×4
	3	0	$656250_1 = \chi_{25}, \varphi_{17}$
	$4 = \overline{3}$	0	$656250_2 = \chi_{26}, \varphi_{18}$
	5	0	$2375000_1 = \chi_{40}, \varphi_{21}$
	6	0	$4156250_1 = \chi_{48}, \varphi_{24}$

Block 1:	φ_1	φ_2	φ_3	φ_4	φ_5	φ_6	φ_7	φ_8	φ_9	φ_{10}	φ_{11}	φ_{12}	φ_{13}	φ_{14}
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	.	.	.	.	.	.
$133_1 = \chi_2$	.	1	.	.	.	.	.	.	.	.	.	.	.	.
$133_2 = \chi_3$	.	1	.	.	.	.	.	.	.	.	.	.	.	.
$760_1 = \chi_4$	1	1	1	.	.	.	.	.	.	.	.	.	.	.
$3344_1 = \chi_5$	1	2	1	1	.	.	.	.	.	.	.	.	.	.
$8778_1 = \chi_6$	.	.	1	.	.	1	.	.	.	.	.	.	.	.
$8778_2 = \chi_7$	.	.	1	.	.	1	.	.	.	.	.	.	.	.
$8910_1 = \chi_8$	.	1	.	1	1	.	.	.	.	.	.	.	.	.
$9405_1 = \chi_9$	1	1	.	.	.	.	1	.	.	.	.	.	.	.
$16929_1 = \chi_{10}$	.	.	.	1	1	1	.	.	.	.	.	.	.	.
$35112_1 = \chi_{11}$	1	1	1	1	1	2	1	.	.	.	.	.	.	.
$35112_2 = \chi_{12}$	1	1	1	1	1	2	1	.	.	.	.	.	.	.
$65835_1 = \chi_{13}$	.	1	1	1	.	1	.	1	.	.	.	.	.	.
$65835_2 = \chi_{14}$	.	1	1	1	.	1	.	1	.	.	.	.	.	.
$69255_1 = \chi_{15}$	.	.	.	.	.	.	.	.	1	.	.	.	.	.
$69255_2 = \chi_{16}$	.	.	.	.	.	.	.	.	1	.	.	.	.	.
$214016_1 = \chi_{17}$	.	2	1	2	1	1	.	2	.	1	.	.	.	.
$267520_1 = \chi_{18}$	1	2	1	1	2	3	2	1	1	1	.	.	.	.
$270864_1 = \chi_{19}$	1	2	3	1	.	2	1	2	.	.	1	.	.	.
$365750_1 = \chi_{20}$	.	.	.	.	4	2	1	.	.	2	.	1	.	.
$374528_1 = \chi_{21}$	1	.	1	.	.	1	1	1	.	.	1	.	1	.
$374528_2 = \chi_{22}$	1	.	1	.	.	1	1	1	.	.	1	.	1	.
$406296_1 = \chi_{23}$	.	2	2	2	3	4	1	2	.	1	.	1	.	.
$718200_1 = \chi_{27}$	.	1	1	2	2	2	1	2	.	1	.	1	.	1
$718200_2 = \chi_{28}$	.	1	1	2	2	2	1	2	.	1	.	1	.	1
$1053360_1 = \chi_{29}$	.	1	2	.	.	.	.	4	.	1	2	1	2	.
$1066527_1 = \chi_{30}$	.	1	2	1	1	2	1	3	.	1	1	1	1	1
$1066527_2 = \chi_{31}$	.	1	2	1	1	2	1	3	.	1	1	1	1	1
$1185030_1 = \chi_{32}$	1	4	2	1	1	1	1	3	2	1	1	.	.	.
$1354320_1 = \chi_{33}$	.	1	1	1	2	2	1	2	.	1	.	1	.	1
$1361920_1 = \chi_{34}$	1	3	2	1	1	1	1	3	.	1	1	1	1	.
$1361920_2 = \chi_{35}$	1	2	2	.	.	.	2	1	1	.	2	.	1	.
$1361920_3 = \chi_{36}$	1	2	2	.	.	.	2	1	1	.	2	.	1	.
$1575936_1 = \chi_{37}$	1	5	4	2	2	4	3	5	2	2	2	1	1	1
$1625184_1 = \chi_{38}$	.	4	2	.	.	.	2	3	2	1	2	.	1	.
$2031480_1 = \chi_{39}$	.	.	1	1	1	1	1	3	.	1	1	1	1	2
$2407680_1 = \chi_{41}$	1	2	2	.	.	1	3	2	1	.	2	.	1	1
$2661120_1 = \chi_{42}$	.	5	2	2	1	1	3	3	2	1	1	.	.	2
$2985984_1 = \chi_{44}$	.	3	3	2	3	4	2	7	1	3	2	2	2	2
$3424256_1 = \chi_{46}$	.	3	3	1	.	.	2	5	1	1	3	1	2	2

(Block 1:)	φ_{15}	φ_{19}
$1_1 = \chi_1$	.	.
$133_1 = \chi_2$	.	.
$133_2 = \chi_3$	.	.
$760_1 = \chi_4$	.	.
$3344_1 = \chi_5$	.	.
$8778_1 = \chi_6$	.	.
$8778_2 = \chi_7$	.	.
$8910_1 = \chi_8$	.	.
$9405_1 = \chi_9$	.	.
$16929_1 = \chi_{10}$	.	.
$35112_1 = \chi_{11}$	.	.
$35112_2 = \chi_{12}$	.	.
$65835_1 = \chi_{13}$	.	.
$65835_2 = \chi_{14}$	.	.
$69255_1 = \chi_{15}$	.	.
$69255_2 = \chi_{16}$	.	.
$214016_1 = \chi_{17}$	.	.
$267520_1 = \chi_{18}$	.	.
$270864_1 = \chi_{19}$	.	.
$365750_1 = \chi_{20}$	.	.
$374528_1 = \chi_{21}$	.	.
$374528_2 = \chi_{22}$	.	.
$406296_1 = \chi_{23}$	.	.
$718200_1 = \chi_{27}$	.	.
$718200_2 = \chi_{28}$	.	.
$1053360_1 = \chi_{29}$	.	.
$1066527_1 = \chi_{30}$	.	.
$1066527_2 = \chi_{31}$	.	.
$1185030_1 = \chi_{32}$	1	.
$1354320_1 = \chi_{33}$	1	.
$1361920_1 = \chi_{34}$	1	.
$1361920_2 = \chi_{35}$	.	1
$1361920_3 = \chi_{36}$	.	1
$1575936_1 = \chi_{37}$	.	.
$1625184_1 = \chi_{38}$	.	1
$2031480_1 = \chi_{39}$	1	.
$2407680_1 = \chi_{41}$	1	1
$2661120_1 = \chi_{42}$	1	1
$2985984_1 = \chi_{44}$	1	.
$3424256_1 = \chi_{46}$	1	1

(Block 1:)	φ_1	φ_2	φ_3	φ_4	φ_5	φ_6	φ_7	φ_8	φ_9	φ_{10}	φ_{11}	φ_{12}	φ_{13}	φ_{14}
$3878280_1 = \chi_{47}$	.	4	2	.	.	.	5	3	2	1	3	.	1	2
$4561920_1 = \chi_{49}$	1	5	6	2	.	3	5	7	2	1	5	.	2	2
$5103000_1 = \chi_{51}$	.	6	6	2	1	1	3	11	2	3	5	2	4	3
$5103000_2 = \chi_{52}$	.	6	6	2	1	1	3	11	2	3	5	2	4	3
$5332635_1 = \chi_{53}$	.	5	5	1	.	1	5	8	2	2	5	1	3	3

(Block 1:)	φ_{15}	φ_{19}
$3878280_1 = \chi_{47}$	1	2
$4561920_1 = \chi_{49}$	1	2
$5103000_1 = \chi_{51}$	1	1
$5103000_2 = \chi_{52}$	1	1
$5332635_1 = \chi_{53}$	1	2

φ_1	=	1_1
φ_2	=	133_1
φ_3	=	626_1
φ_4	=	2451_1
φ_5	=	6326_1
φ_6	=	8152_1
φ_7	=	9271_1
φ_8	=	54473_1
φ_9	=	69255_1
φ_{10}	=	84798_1
φ_{11}	=	131747_1
φ_{12}	=	145275_1
φ_{13}	=	170258_1
φ_{14}	=	335293_1
φ_{15}	=	638571_1
φ_{19}	=	784379_1

Block 2:	φ_{16}	φ_{20}	φ_{22}	φ_{23}
$653125_1 = \chi_{24}$	1	.	.	.
$2784375_1 = \chi_{43}$	1	1	.	.
$3200000_1 = \chi_{45}$	.	.	.	1
$4809375_1 = \chi_{50}$	.	1	1	.
$5878125_1 = \chi_{54}$	.	.	1	1

φ_{16}	=	653125_1
φ_{20}	=	2131250_1
φ_{22}	=	2678125_1
φ_{23}	=	3200000_1