

$HN \pmod{19}$

	blocks	defect	matrix
$G :$	1	1	11×9
	2	0	$133_1 = \chi_2, \varphi_2$
	3	0	$133_2 = \chi_3, \varphi_3$
	4	0	$760_1 = \chi_4, \varphi_4$
	5	0	$3344_1 = \chi_5, \varphi_5$
	6	0	$8778_1 = \chi_6, \varphi_6$
	7	0	$8778_2 = \chi_7, \varphi_7$
	8	0	$9405_1 = \chi_9, \varphi_9$
	9	0	$16929_1 = \chi_{10}, \varphi_{10}$
	10	0	$35112_1 = \chi_{11}, \varphi_{11}$
	11	0	$35112_2 = \chi_{12}, \varphi_{12}$
	12	0	$65835_1 = \chi_{13}, \varphi_{13}$
	13	0	$65835_2 = \chi_{14}, \varphi_{14}$
	14	0	$69255_1 = \chi_{15}, \varphi_{15}$
	$15 = \overline{14}$	0	$69255_2 = \chi_{16}, \varphi_{16}$
	16	0	$214016_1 = \chi_{17}, \varphi_{17}$
	17	0	$267520_1 = \chi_{18}, \varphi_{18}$
	18	0	$270864_1 = \chi_{19}, \varphi_{19}$
	19	0	$365750_1 = \chi_{20}, \varphi_{20}$
	20	0	$374528_1 = \chi_{21}, \varphi_{21}$
	21	0	$374528_2 = \chi_{22}, \varphi_{22}$
	22	0	$406296_1 = \chi_{23}, \varphi_{23}$
	23	0	$653125_1 = \chi_{24}, \varphi_{24}$
	24	0	$718200_1 = \chi_{27}, \varphi_{26}$
	25	0	$718200_2 = \chi_{28}, \varphi_{27}$
	26	0	$1053360_1 = \chi_{29}, \varphi_{28}$
	27	0	$1066527_1 = \chi_{30}, \varphi_{29}$
	28	0	$1066527_2 = \chi_{31}, \varphi_{30}$
	29	0	$1185030_1 = \chi_{32}, \varphi_{32}$
	30	0	$1354320_1 = \chi_{33}, \varphi_{34}$
	31	0	$1361920_1 = \chi_{34}, \varphi_{35}$
	32	0	$1361920_2 = \chi_{35}, \varphi_{36}$
	$33 = \overline{32}$	0	$1361920_3 = \chi_{36}, \varphi_{37}$
	34	0	$1575936_1 = \chi_{37}, \varphi_{38}$
	35	0	$1625184_1 = \chi_{38}, \varphi_{40}$
	36	0	$2031480_1 = \chi_{39}, \varphi_{41}$
	37	0	$2375000_1 = \chi_{40}, \varphi_{43}$
	38	0	$2407680_1 = \chi_{41}, \varphi_{44}$
	39	0	$3424256_1 = \chi_{46}, \varphi_{46}$
	40	0	$3878280_1 = \chi_{47}, \varphi_{47}$

	blocks	defect	matrix
	41	0	$4156250_1 = \chi_{48}, \varphi_{49}$
	42	0	$4809375_1 = \chi_{50}, \varphi_{50}$
	43	0	$5332635_1 = \chi_{53}, \varphi_{51}$
	44	0	$5878125_1 = \chi_{54}, \varphi_{52}$

Block 1:	φ_1	φ_8	φ_{25}	φ_{31}	φ_{33}	φ_{39}	φ_{42}	φ_{45}	φ_{48}
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	.
$8910_1 = \chi_8$	1	1	.	.	.	.	.	.	.
$656250_1 = \chi_{25}$.	.	1	.	.	.	.	.	.
$656250_2 = \chi_{26}$.	.	1	.	.	.	.	.	.
$2661120_1 = \chi_{42}$.	.	.	1	.	1	.	.	.
$2784375_1 = \chi_{43}$	1	1	.	.	.
$2985984_1 = \chi_{44}$.	1	.	.	.	.	.	1	.
$3200000_1 = \chi_{45}$.	.	.	1	.	.	1	.	.
$4561920_1 = \chi_{49}$.	.	1	.	.	.	.	.	1
$5103000_1 = \chi_{51}$	1	1	.
$5103000_2 = \chi_{52}$	1	.	.	.	1

$$\begin{array}{ll}
\varphi_1 & = 1_1 \\
\varphi_8 & = 8909_1 \\
\varphi_{25} & = 656250_1 \\
\varphi_{31} & = 1074075_1 \\
\varphi_{33} & = 1197330_1 \\
\varphi_{39} & = 1587045_1 \\
\varphi_{42} & = 2125925_1 \\
\varphi_{45} & = 2977075_1 \\
\varphi_{48} & = 3905670_1
\end{array}$$