

$$Ru \pmod{13}$$

	blocks	defect	matrix
$G :$	1	1	13×12
	2	1	7×4
	3	0	$3276_1 = \chi_6, \varphi_6$
	4	0	$20475_1 = \chi_8, \varphi_{12}$
	5	0	$23751_1 = \chi_{10}, \varphi_{14}$
	6	0	$34944_1 = \chi_{15}, \varphi_{16}$
	7	0	$34944_2 = \chi_{16}, \varphi_{17}$
	8	0	$45500_1 = \chi_{20}, \varphi_{19}$
	9	0	$52780_1 = \chi_{21}, \varphi_{20}$
	10	0	$63336_1 = \chi_{22}, \varphi_{21}$
	11	0	$65975_1 = \chi_{23}, \varphi_{22}$
	12	0	$71253_1 = \chi_{24}, \varphi_{23}$
	13	0	$75400_1 = \chi_{25}, \varphi_{25}$
	14	0	$81432_1 = \chi_{27}, \varphi_{26}$
	15	0	$95004_1 = \chi_{29}, \varphi_{29}$
	16	0	$98280_1 = \chi_{30}, \varphi_{30}$
	17	0	$98280_2 = \chi_{31}, \varphi_{31}$
	18	0	$105560_1 = \chi_{33}, \varphi_{32}$
$2.G :$	19	1	13×12
	20	0	$1248_1 = \chi_{39}, \varphi_{35}$
	$21 = \overline{20}$	0	$1248_2 = \chi_{40}, \varphi_{36}$
	22	0	$3276_2 = \chi_{41}, \varphi_{37}$
	$23 = \overline{22}$	0	$3276_3 = \chi_{42}, \varphi_{38}$
	24	0	$7280_1 = \chi_{45}, \varphi_{41}$
	$25 = \overline{24}$	0	$7280_2 = \chi_{46}, \varphi_{42}$
	26	0	$10556_1 = \chi_{51}, \varphi_{47}$
	$27 = \overline{26}$	0	$10556_2 = \chi_{52}, \varphi_{48}$
	28	0	$34944_3 = \chi_{53}, \varphi_{49}$
	29	0	$48256_1 = \chi_{56}, \varphi_{52}$
	30	0	$98280_3 = \chi_{58}, \varphi_{54}$
	$31 = \overline{30}$	0	$98280_4 = \chi_{59}, \varphi_{55}$

Block 1:	φ_1	φ_2	φ_3	φ_7	φ_8	φ_9	φ_{10}	φ_{11}	φ_{13}	φ_{15}	φ_{27}	φ_{28}
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	.	.	.	.
$378_1 = \chi_2$	.	1	.	.	.	.	.	.	.	.	.	.
$378_2 = \chi_3$	.	.	1	.	.	.	.	.	.	.	.	.
$3654_1 = \chi_7$	.	.	.	1	.	.	.	.	.	.	.	.
$21750_1 = \chi_9$	.	.	.	.	1	.	1	.	.	.	.	.
$27000_1 = \chi_{11}$	.	.	.	.	.	1	1	.	.	.	.	.
$27000_2 = \chi_{12}$	.	.	.	1	.	.	.	.	1	.	.	.
$27000_3 = \chi_{13}$	1	.	.	.	.	.	.	.	.	1	.	.
$27405_1 = \chi_{14}$	.	.	.	.	.	1	.	1	.	.	.	.
$91350_1 = \chi_{28}$	.	1	1	.	1	.	.	.	.	.	1	.
$102400_1 = \chi_{32}$	.	.	.	.	.	.	.	1	.	.	.	1
$110592_1 = \chi_{34}$	.	.	.	.	.	.	.	.	.	1	1	.
$110592_2 = \chi_{35}$	.	.	.	.	.	.	.	.	1	.	.	1

$$\begin{array}{ll}
\varphi_1 = 1_1 & \varphi_{10} = 14749_1 \\
\varphi_2 = 378_1 & \varphi_{11} = 15154_1 \\
\varphi_3 = 378_2 & \varphi_{13} = 23346_1 \\
\varphi_7 = 3654_1 & \varphi_{15} = 26999_1 \\
\varphi_8 = 7001_1 & \varphi_{27} = 83593_1 \\
\varphi_9 = 12251_1 & \varphi_{28} = 87246_1
\end{array}$$

Block 2:	φ_4	φ_5	φ_{18}	φ_{24}
$406_1 = \chi_4$	1	.	.	.
$783_1 = \chi_5$	.	1	.	.
$43848_1 = \chi_{17}$	1	.	1	.
$43848_2 = \chi_{18}$	1	.	1	.
$43848_3 = \chi_{19}$	1	.	1	.
$76125_1 = \chi_{26}$	.	1	.	1
$118784_1 = \chi_{36}$	.	.	1	1

$$\begin{array}{ll}
\varphi_4 = 406_1 \\
\varphi_5 = 783_1 \\
\varphi_{18} = 43442_1 \\
\varphi_{24} = 75342_1
\end{array}$$

Block 19:	φ_{33}	φ_{34}	φ_{39}	φ_{40}	φ_{43}	φ_{44}	φ_{45}	φ_{46}	φ_{50}	φ_{51}	φ_{53}	φ_{56}
$28_1 = \chi_{37}$	1	.	.	.	.	.	.	.	.	.	.	.
$28_2 = \chi_{38}$	.	1	.	.	.	.	.	.	.	.	.	.
$4032_1 = \chi_{43}$	.	.	1	.	.	.	.	.	.	.	.	.
$4032_2 = \chi_{44}$	.	.	.	1	.	.	.	.	.	.	.	.
$7308_1 = \chi_{47}$	.	.	.	.	1	.	.	.	.	.	.	.
$7308_2 = \chi_{48}$	.	.	.	.	.	1	.	.	.	.	.	.
$8192_1 = \chi_{49}$	.	.	.	.	.	.	1	.	.	.	.	.
$8192_2 = \chi_{50}$	.	.	.	.	.	.	.	1	.	.	.	.
$38976_1 = \chi_{54}$	.	.	.	.	.	.	.	.	1	.	.	.
$38976_2 = \chi_{55}$	.	.	.	.	.	.	.	.	.	1	.	.
$87696_1 = \chi_{57}$	.	.	1	1	.	.	1	.	.	.	1	.
$221184_1 = \chi_{60}$	.	.	.	.	.	.	.	.	.	.	1	1
$250560_1 = \chi_{61}$	1	1	.	.	1	1	.	1	1	1	.	1

$$\begin{array}{ll}
\varphi_{33} = 28_1 & \varphi_{45} = 8192_1 \\
\varphi_{34} = 28_2 & \varphi_{46} = 8192_2 \\
\varphi_{39} = 4032_1 & \varphi_{50} = 38976_1 \\
\varphi_{40} = 4032_2 & \varphi_{51} = 38976_2 \\
\varphi_{43} = 7308_1 & \varphi_{53} = 71440_1 \\
\varphi_{44} = 7308_2 & \varphi_{56} = 149744_1
\end{array}$$