Ru (mod 3)

	blocks	defect	matrix
$G:$	1	3	14×9
	2	0	$378_1 = \chi_2, \varphi_2$
	$3 = \overline{2}$	0	$378_2 = \chi_3, \varphi_3$
	4	0	$783_1 = \chi_5, \varphi_5$
	5	1	3×2
	6	1	3×2
	7	0	$27000_1 = \chi_{11}, \varphi_{12}$
	8	0	$27000_2 = \chi_{12}, \varphi_{13}$
	9	0	$27000_3 = \chi_{13}, \varphi_{14}$
	10	0	$27405_1 = \chi_{14}, \varphi_{15}$
	11	0	$43848_1 = \chi_{17}, \varphi_{19}$
	12	0	$43848_2 = \chi_{18}, \varphi_{20}$
	13	0	$43848_3 = \chi_{19}, \varphi_{21}$
	14	0	$71253_1 = \chi_{24}, \varphi_{23}$
	15	0	$81432_1 = \chi_{27}, \varphi_{24}$
	16	0	$98280_1 = \chi_{30}, \varphi_{26}$
	17	0	$98280_2 = \chi_{31}, \varphi_{27}$
	18	0	$110592_1 = \chi_{34}, \varphi_{28}$
	19	0	$110592_2 = \chi_{35}, \varphi_{29}$
$2.G:$	20	3	14×9
	21	1	3×2
	$22 = \overline{21}$	1	3×2
	23	0	$87696_1 = \chi_{57}, \varphi_{43}$
	24	0	$98280_3 = \chi_{58}, \varphi_{44}$
	$25 = \overline{24}$	0	$98280_4 = \chi_{59}, \varphi_{45}$
	26	0	$221184_1 = \chi_{60}, \varphi_{46}$
	27	0	$250560_1 = \chi_{61}, \varphi_{47}$

Block 1:	φ_1	φ_4	φ_8	φ_9	φ_{10}	φ_{16}	φ_{17}	φ_{18}	φ_{22}
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	.
$406_1 = \chi_4$	.	1	.	.	.	.	.	.	.
$21750_1 = \chi_9$	.	.	1	1	.	.	.	.	.
$34944_1 = \chi_{15}$	.	.	.	.	.	.	.	1	.
$34944_2 = \chi_{16}$	.	.	.	.	.	.	.	1	.
$45500_1 = \chi_{20}$	.	1	.	.	.	.	.	.	1
$52780_1 = \chi_{21}$	.	.	1	1	.	1	.	.	.
$63336_1 = \chi_{22}$	.	1	.	.	1	.	.	.	1
$65975_1 = \chi_{23}$	1	.	.	.	.	1	.	1	.
$75400_1 = \chi_{25}$	.	.	.	1	.	1	1	.	.
$76125_1 = \chi_{26}$	1	.	.	.	.	1	.	.	1
$102400_1 = \chi_{32}$	.	.	1	.	1	1	.	.	1
$105560_1 = \chi_{33}$	.	.	1	1	1	1	.	1	.
$118784_1 = \chi_{36}$	.	.	1	1	.	1	1	1	.

$$\begin{aligned}
\varphi_1 &= 1_1 \\
\varphi_4 &= 406_1 \\
\varphi_8 &= 8440_1 \\
\varphi_9 &= 13310_1 \\
\varphi_{10} &= 17836_1 \\
\varphi_{16} &= 31030_1 \\
\varphi_{17} &= 31060_1 \\
\varphi_{18} &= 34944_1 \\
\varphi_{22} &= 45094_1
\end{aligned}$$

Block 5:	φ_6	φ_{11}
$3276_1 = \chi_6$	1	.
$20475_1 = \chi_8$	.	1
$23751_1 = \chi_{10}$	1	1

$$\begin{aligned}
\varphi_6 &= 3276_1 \\
\varphi_{11} &= 20475_1
\end{aligned}$$

Block 6:	φ_7	φ_{25}
$3654_1 = \chi_7$	1	.
$91350_1 = \chi_{28}$	.	1
$95004_1 = \chi_{29}$	1	1

$$\begin{aligned}
\varphi_7 &= 3654_1 \\
\varphi_{25} &= 91350_1
\end{aligned}$$

Block 20:	φ_{30}	φ_{31}	φ_{32}	φ_{37}	φ_{38}	φ_{39}	φ_{40}	φ_{41}	φ_{42}
$28_1 = \chi_{37}$	1	.	.	.	.	.	.	.	.
$28_2 = \chi_{38}$	.	1	.	.	.	.	.	.	.
$1248_1 = \chi_{39}$	.	.	1	.	.	.	.	.	.
$1248_2 = \chi_{40}$	.	.	1	.	.	.	.	.	.
$7280_1 = \chi_{45}$	.	.	1	1	.	.	.	.	.
$7280_2 = \chi_{46}$	.	.	1	.	1	.	.	.	.
$8192_1 = \chi_{49}$	.	.	1	.	.	1	.	.	.
$8192_2 = \chi_{50}$	.	.	1	.	.	.	1	.	.
$10556_1 = \chi_{51}$	1	.	.	.	.	.	.	1	.
$10556_2 = \chi_{52}$	.	1	.	.	.	.	.	.	1
$34944_3 = \chi_{53}$	.	.	.	.	.	1	1	1	1
$38976_1 = \chi_{54}$	.	.	2	1	1	1	1	1	.
$38976_2 = \chi_{55}$	.	.	2	1	1	1	1	.	1
$48256_1 = \chi_{56}$	.	.	1	1	1	1	1	1	1

$\varphi_{30} = 28_1$
$\varphi_{31} = 28_2$
$\varphi_{32} = 1248_1$
$\varphi_{37} = 6032_1$
$\varphi_{38} = 6032_2$
$\varphi_{39} = 6944_1$
$\varphi_{40} = 6944_2$
$\varphi_{41} = 10528_1$
$\varphi_{42} = 10528_2$

Block 21:	φ_{33}	φ_{35}
$3276_2 = \chi_{41}$	1	.
$4032_1 = \chi_{43}$	.	1
$7308_1 = \chi_{47}$	1	1

$\varphi_{33} = 3276_2$
$\varphi_{35} = 4032_1$

Block 22:	φ_{34}	φ_{36}
$3276_3 = \chi_{42}$	1	.
$4032_2 = \chi_{44}$	.	1
$7308_2 = \chi_{48}$	1	1

$\varphi_{34} = 3276_3$
$\varphi_{36} = 4032_2$