

$$Ly \pmod{11}$$

	blocks	defect	matrix
$G :$	1	1	7×5
	2	1	7×5
	3	0	$45694_1 = \chi_4, \varphi_3$
	4	1	7×5
	5	0	$381766_1 = \chi_9, \varphi_6$
	6	0	$1534500_1 = \chi_{11}, \varphi_8$
	7	0	$4226695_1 = \chi_{14}, \varphi_{11}$
	8	0	$11834746_1 = \chi_{18}, \varphi_{14}$
	9	0	$16906780_1 = \chi_{19}, \varphi_{15}$
	10	0	$18395586_1 = \chi_{20}, \varphi_{16}$
	11	0	$18395586_2 = \chi_{21}, \varphi_{17}$
	12	0	$18395586_3 = \chi_{22}, \varphi_{18}$
	13	0	$21312500_1 = \chi_{24}, \varphi_{20}$
	14	0	$21312500_2 = \chi_{25}, \varphi_{21}$
	15	0	$22609664_1 = \chi_{26}, \varphi_{23}$
	16	0	$22609664_2 = \chi_{27}, \varphi_{24}$
	17	0	$22609664_3 = \chi_{28}, \varphi_{25}$
	18	0	$27252720_1 = \chi_{29}, \varphi_{26}$
	19	0	$27252720_2 = \chi_{30}, \varphi_{27}$
	20	0	$27252720_3 = \chi_{31}, \varphi_{28}$
	21	0	$27252720_4 = \chi_{32}, \varphi_{29}$
	22	0	$28787220_1 = \chi_{33}, \varphi_{31}$
	23	0	$29586865_1 = \chi_{34}, \varphi_{32}$
	24	0	$33813560_1 = \chi_{36}, \varphi_{35}$
	25	0	$43110144_1 = \chi_{39}, \varphi_{37}$
	26	0	$43110144_2 = \chi_{40}, \varphi_{38}$
	27	0	$43110144_3 = \chi_{41}, \varphi_{39}$
	28	0	$43110144_4 = \chi_{42}, \varphi_{40}$
	29	0	$43110144_5 = \chi_{43}, \varphi_{41}$
	30	0	$44159500_1 = \chi_{44}, \varphi_{42}$
	31	0	$45648306_1 = \chi_{45}, \varphi_{43}$
	32	0	$45648306_2 = \chi_{46}, \varphi_{44}$
	33	0	$45694000_1 = \chi_{47}, \varphi_{45}$
	34	0	$45694000_2 = \chi_{48}, \varphi_{46}$
	35	0	$71008476_1 = \chi_{53}, \varphi_{47}$

Block 1:	φ_1	φ_4	φ_7	φ_9	φ_{10}
$1_1 = \chi_1$	1	.	.	.	.
$48174_1 = \chi_5$	.	1	.	.	.
$48174_2 = \chi_6$	.	1	.	.	.
$1152735_1 = \chi_{10}$	.	1	1	.	.
$3028266_1 = \chi_{12}$	1	.	.	.	1
$3073960_1 = \chi_{13}$	.	.	1	1	.
$4997664_1 = \chi_{15}$	.	.	.	1	1

$$\begin{aligned}
\varphi_1 &= 1_1 \\
\varphi_4 &= 48174_1 \\
\varphi_7 &= 1104561_1 \\
\varphi_9 &= 1969399_1 \\
\varphi_{10} &= 3028265_1
\end{aligned}$$

Block 2:	φ_2	φ_{12}	φ_{22}	φ_{33}	φ_{34}
$2480_1 = \chi_2$	1	.	.	.	.
$2480_2 = \chi_3$	1	.	.	.	.
$5379430_1 = \chi_{16}$	.	1	.	.	.
$30739600_1 = \chi_{35}$	1	.	.	1	.
$36887520_1 = \chi_{37}$	.	1	.	.	1
$52994655_1 = \chi_{49}$	.	.	1	1	.
$53765625_1 = \chi_{50}$	.	.	1	.	1

$$\begin{aligned}
\varphi_2 &= 2480_1 \\
\varphi_{12} &= 5379430_1 \\
\varphi_{22} &= 22257535_1 \\
\varphi_{33} &= 30737120_1 \\
\varphi_{34} &= 31508090_1
\end{aligned}$$

Block 4:	φ_5	φ_{13}	φ_{19}	φ_{30}	φ_{36}
$120064_1 = \chi_7$	1	.	.	.	.
$120064_2 = \chi_8$	1	.	.	.	.
$10758860_1 = \chi_{17}$	1	1	.	.	.
$19212250_1 = \chi_{23}$	.	.	1	.	.
$38734375_1 = \chi_{38}$	.	1	.	1	.
$56022921_1 = \chi_{51}$	.	.	1	.	1
$64906250_1 = \chi_{52}$	.	.	.	1	1

$$\begin{aligned}
\varphi_5 &= 120064_1 \\
\varphi_{13} &= 10638796_1 \\
\varphi_{19} &= 19212250_1 \\
\varphi_{30} &= 28095579_1 \\
\varphi_{36} &= 36810671_1
\end{aligned}$$