ON (mod 31)

	blocks	defect	matrix
$G:$	1	1	17×15
	2	0	$25916_1 = \chi_5, \varphi_7$
	$3 = \overline{2}$	0	$25916_2 = \chi_6, \varphi_8$
	4	0	$32395_1 = \chi_8, \varphi_9$
	5	0	$32395_2 = \chi_9, \varphi_{10}$
	6	0	$37696_1 = \chi_{10}, \varphi_{11}$
	7	0	$58311_1 = \chi_{12}, \varphi_{14}$
	8	0	$58311_2 = \chi_{13}, \varphi_{15}$
	9	0	$58311_3 = \chi_{14}, \varphi_{16}$
	10	0	$64790_1 = \chi_{16}, \varphi_{17}$
	11	0	$64790_2 = \chi_{17}, \varphi_{18}$
	12	0	$85064_1 = \chi_{18}, \varphi_{20}$
	13	0	$116963_1 = \chi_{19}, \varphi_{23}$
	14	0	$175770_1 = \chi_{25}, \varphi_{27}$
$3.G:$	15	1	17×15
	$16 = 15*$		
	17	0	$58311_4 = \chi_{40}, \varphi_{40}$
	$18 = 17*$		
	19	0	$63612_1 = \chi_{42}, \varphi_{41}$
	$20 = 19*$		
	21	0	$111321_1 = \chi_{43}, \varphi_{43}$
	$22 = 21*$		
	23	0	$116622_1 = \chi_{44}, \varphi_{45}$
	$24 = 23*$		
	25	0	$122760_1 = \chi_{45}, \varphi_{46}$
	$26 = 25*$		
	27	0	$169632_1 = \chi_{48}, \varphi_{49}$
	$28 = 27*$		
	$29 = \overline{28}$	0	$169632_3 = \chi_{49}, \varphi_{50}$
	$30 = 29*$		
	31	0	$175770_2 = \chi_{50}, \varphi_{51}$
	$32 = 31*$		

Block 1:	φ_1	φ_2	φ_3	φ_4	φ_5	φ_6	φ_{12}	φ_{13}	φ_{19}	φ_{21}	φ_{22}	φ_{24}	φ_{25}	φ_{26}	φ_{28}
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$10944_1 = \chi_2$	.	1	.	1	.	.	.	.	.	.	.	.	.	.	.
$13376_1 = \chi_3$	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.
$13376_2 = \chi_4$	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.
$26752_1 = \chi_7$	.	1	.	.	.	1	.	.	.	.	.	.	.	.	.
$52668_1 = \chi_{11}$	1	.	.	.	.	.	.	1	.	.	.	.	.	.	.
$58653_1 = \chi_{15}$	.	.	1	.	.	.	1	.	.	.	.	.	.	.	.
$143374_1 = \chi_{20}$	.	.	.	1	.	.	.	.	.	.	.	.	1	.	.
$169290_1 = \chi_{21}$	.	.	1	.	.	.	.	.	.	.	.	.	.	1	.
$169290_2 = \chi_{22}$	.	.	.	.	.	.	.	.	1	1	.	.	.	.	.
$175616_1 = \chi_{23}$	.	.	.	.	1	.	.	.	.	.	.	.	.	1	.
$175616_2 = \chi_{24}$	.	.	.	.	.	.	.	1	.	.	.	1	.	.	.
$207360_1 = \chi_{26}$	.	.	.	.	.	.	.	.	.	1	1	.	.	.	.
$207360_2 = \chi_{27}$	.	.	.	.	.	1	.	.	.	.	.	.	.	.	1
$207360_3 = \chi_{28}$	.	.	.	.	.	.	.	.	1	.	.	.	1	.	.
$234080_1 = \chi_{29}$	.	.	.	.	.	.	.	.	.	.	1	1	.	.	.
$234080_2 = \chi_{30}$	.	.	.	.	.	.	1	.	.	.	.	.	.	.	1

$\varphi_1 = 1_1$
$\varphi_2 = 1869_1$
$\varphi_3 = 7050_1$
$\varphi_4 = 9075_1$
$\varphi_5 = 13376_1$
$\varphi_6 = 24883_1$
$\varphi_{12} = 51603_1$
$\varphi_{13} = 52667_1$

$\varphi_{19} = 73061_1$
$\varphi_{21} = 96229_1$
$\varphi_{22} = 111131_1$
$\varphi_{24} = 122949_1$
$\varphi_{25} = 134299_1$
$\varphi_{26} = 162240_1$
$\varphi_{28} = 182477_1$

Blocks 15, 16:	φ_{29}	φ_{30}	φ_{31}	φ_{32}	φ_{33}	φ_{34}	φ_{35}	φ_{36}	φ_{37}	φ_{38}	φ_{39}	φ_{42}	φ_{44}	φ_{47}
$342_1 = \chi_{31}$	1	.	.	.	.	.	.	.	.	.	.	.	.	.
$342_3 = \chi_{32}$	.	1	.	.	.	.	.	.	.	.	.	.	.	.
$495_1 = \chi_{33}$	.	.	1	.	.	.	.	.	.	.	.	.	.	.
$495_3 = \chi_{34}$	.	.	.	1	.	.	.	.	.	.	.	.	.	.
$5643_1 = \chi_{35}$	.	.	.	.	1	.	.	.	.	.	.	.	.	.
$5643_3 = \chi_{36}$	.	.	.	.	.	1	.	.	.	.	.	.	.	.
$5643_5 = \chi_{37}$	.	.	.	.	.	.	1	.	.	.	.	.	.	.
$52668_2 = \chi_{38}$	.	.	.	.	1	.	.	.	.	1	.	.	.	.
$52668_4 = \chi_{39}$	.	.	.	.	.	.	.	.	.	.	1	.	.	.
$58653_2 = \chi_{41}$	.	.	1	1	.	.	.	1	1	.	.	.	.	.
$169290_3 = \chi_{46}$	1	1	.	.	.	1	1	.	1	.	.	.	1	.
$169290_5 = \chi_{47}$	.	.	.	.	.	.	.	1	.	.	.	.	.	1
$207360_4 = \chi_{51}$	.	.	.	.	.	.	.	.	.	1	.	.	.	.
$207360_6 = \chi_{52}$	.	.	.	.	.	.	.	.	.	.	1	.	.	1
$207360_8 = \chi_{53}$	.	.	.	.	.	.	.	.	.	.	.	1	1	.
$253440_1 = \chi_{54}$	.	.	.	.	.	.	.	.	.	.	.	1	.	.
$253440_3 = \chi_{55}$	.	.	.	.	.	.	.	.	.	.	.	1	.	.

(**Blocks 15, 16:**)	φ_{48}
$342_1 = \chi_{31}$	.
$342_3 = \chi_{32}$	.
$495_1 = \chi_{33}$	.
$495_3 = \chi_{34}$	.
$5643_1 = \chi_{35}$	.
$5643_3 = \chi_{36}$	.
$5643_5 = \chi_{37}$	.
$52668_2 = \chi_{38}$	.
$52668_4 = \chi_{39}$	.
$58653_2 = \chi_{41}$	.
$169290_3 = \chi_{46}$	.
$169290_5 = \chi_{47}$	.
$207360_4 = \chi_{51}$	1
$207360_6 = \chi_{52}$	.
$207360_8 = \chi_{53}$	.
$253440_1 = \chi_{54}$	1
$253440_3 = \chi_{55}$	1

$\varphi_{29} = 342_1$
$\varphi_{30} = 342_3$
$\varphi_{31} = 495_1$
$\varphi_{32} = 495_3$
$\varphi_{33} = 5643_1$
$\varphi_{34} = 5643_3$
$\varphi_{35} = 5643_5$
$\varphi_{36} = 14598_1$
$\varphi_{37} = 43065_1$
$\varphi_{38} = 47025_1$
$\varphi_{39} = 52668_1$
$\varphi_{42} = 93105_1$
$\varphi_{44} = 114255_1$
$\varphi_{47} = 154692_1$
$\varphi_{48} = 160335_1$