

## *ON.2* (mod 31)

	blocks	defect	matrix
<i>G</i> :	1	1	$31 \times 30$
	2	0	$51832_1 = \chi_{5+}, \varphi_{7+}$
	3	0	$64790_1 = \chi_{8+}, \varphi_{9+}$
	4	0	$37696_1 = \chi_{10,0}, \varphi_{11,0}$
	5	0	$37696_2 = \chi_{10,1}, \varphi_{11,1}$
	6	0	$58311_1 = \chi_{12,0}, \varphi_{14,0}$
	7	0	$58311_2 = \chi_{12,1}, \varphi_{14,1}$
	8	0	$116622_1 = \chi_{13+}, \varphi_{15+}$
	9	0	$129580_1 = \chi_{16+}, \varphi_{17+}$
	10	0	$85064_1 = \chi_{18,0}, \varphi_{20,0}$
	11	0	$85064_2 = \chi_{18,1}, \varphi_{20,1}$
	12	0	$116963_1 = \chi_{19,0}, \varphi_{23,0}$

	blocks	defect	matrix
	13	0	$116963_2 = \chi_{19,1}, \varphi_{23,1}$
	14	0	$175770_1 = \chi_{25,0}, \varphi_{27,0}$
	15	0	$175770_2 = \chi_{25,1}, \varphi_{27,1}$
<i>3.G</i> :	16	1	$17 \times 15$
	17	0	$116622_2 = \chi_{40+}, \varphi_{40+}$
	18	0	$127224_1 = \chi_{42+}, \varphi_{41+}$
	19	0	$222642_1 = \chi_{43+}, \varphi_{43+}$
	20	0	$233244_1 = \chi_{44+}, \varphi_{45+}$
	21	0	$245520_1 = \chi_{45+}, \varphi_{46+}$
	22	0	$339264_1 = \chi_{48+}, \varphi_{49+}$
	23	0	$339264_2 = \chi_{49+}, \varphi_{50+}$
	24	0	$351540_1 = \chi_{50+}, \varphi_{51+}$



(Block 1:)	$\varphi_{6,1}$	$\varphi_{12,0}$	$\varphi_{12,1}$	$\varphi_{13,0}$	$\varphi_{13,1}$	$\varphi_{19,0}$	$\varphi_{19,1}$	$\varphi_{21,0}$	$\varphi_{21,1}$	$\varphi_{22,0}$
$1_1 = \chi_{1,0}$	.	.	.	.	.	.	.	.	.	.
$1_2 = \chi_{1,1}$	.	.	.	.	.	.	.	.	.	.
$10944_1 = \chi_{2,0}$	.	.	.	.	.	.	.	.	.	.
$10944_2 = \chi_{2,1}$	.	.	.	.	.	.	.	.	.	.
$26752_1 = \chi_{3,+}$	.	.	.	.	.	.	.	.	.	.
$26752_2 = \chi_{7,0}$	.	.	.	.	.	.	.	.	.	.
$26752_3 = \chi_{7,1}$	1	.	.	.	.	.	.	.	.	.
$52668_1 = \chi_{11,0}$	.	.	.	1	.	.	.	.	.	.
$52668_2 = \chi_{11,1}$	.	.	.	.	1	.	.	.	.	.
$58653_1 = \chi_{15,0}$	.	1	.	.	.	.	.	.	.	.
$58653_2 = \chi_{15,1}$	.	.	1	.	.	.	.	.	.	.
$143374_1 = \chi_{20,0}$	.	.	.	.	.	.	.	.	.	.
$143374_2 = \chi_{20,1}$	.	.	.	.	.	.	.	.	.	.
$169290_1 = \chi_{21,0}$	.	.	.	.	.	.	.	.	.	.
$169290_2 = \chi_{21,1}$	.	.	.	.	.	.	.	.	.	.
$169290_3 = \chi_{22,0}$	.	.	.	.	.	.	1	1	.	.
$169290_4 = \chi_{22,1}$	.	.	.	.	.	1	.	.	1	.
$175616_1 = \chi_{23,0}$	.	.	.	.	.	.	.	.	.	.
$175616_2 = \chi_{23,1}$	.	.	.	.	.	.	.	.	.	.
$175616_3 = \chi_{24,0}$	.	.	.	.	1	.	.	.	.	.
$175616_4 = \chi_{24,1}$	.	.	.	1	.	.	.	.	.	.
$207360_1 = \chi_{26,0}$	.	.	.	.	.	.	.	1	.	1
$207360_2 = \chi_{26,1}$	.	.	.	.	.	.	.	.	1	.
$207360_3 = \chi_{27,0}$	.	.	.	.	.	.	.	.	.	.
$207360_4 = \chi_{27,1}$	1	.	.	.	.	.	.	.	.	.
$207360_5 = \chi_{28,0}$	.	.	.	.	.	1	.	.	.	.
$207360_6 = \chi_{28,1}$	.	.	.	.	.	.	1	.	.	.
$234080_1 = \chi_{29,0}$	.	.	.	.	.	.	.	.	.	.
$234080_2 = \chi_{29,1}$	.	.	.	.	.	.	.	.	.	1
$234080_3 = \chi_{30,0}$	.	1	.	.	.	.	.	.	.	.
$234080_4 = \chi_{30,1}$	.	.	1	.	.	.	.	.	.	.





<b>(Block 16:)</b>	$\varphi_{39+}$	$\varphi_{42+}$	$\varphi_{44+}$	$\varphi_{47+}$	$\varphi_{48+}$		
$684_1 = \chi_{31+}$	.	.	.	.	.	$\varphi_{29+} =$	$684_1$
$684_2 = \chi_{32+}$	.	.	.	.	.	$\varphi_{30+} =$	$684_2$
$990_1 = \chi_{33+}$	.	.	.	.	.	$\varphi_{31+} =$	$990_1$
$990_2 = \chi_{34+}$	.	.	.	.	.	$\varphi_{32+} =$	$990_2$
$11286_1 = \chi_{35+}$	.	.	.	.	.	$\varphi_{33+} =$	$11286_1$
$11286_2 = \chi_{36+}$	.	.	.	.	.	$\varphi_{34+} =$	$11286_2$
$11286_3 = \chi_{37+}$	.	.	.	.	.	$\varphi_{35+} =$	$11286_3$
$105336_1 = \chi_{38+}$	.	.	.	.	.	$\varphi_{36+} =$	$29196_1$
$105336_2 = \chi_{39+}$	1	.	.	.	.	$\varphi_{37+} =$	$86130_1$
$117306_1 = \chi_{41+}$	.	.	.	.	.	$\varphi_{38+} =$	$94050_1$
$338580_1 = \chi_{46+}$	.	.	1	.	.	$\varphi_{39+} =$	$105336_1$
$338580_2 = \chi_{47+}$	.	.	.	1	.	$\varphi_{42+} =$	$186210_1$
$414720_1 = \chi_{51+}$	.	.	.	.	1	$\varphi_{44+} =$	$228510_1$
$414720_2 = \chi_{52+}$	1	.	.	1	.	$\varphi_{47+} =$	$309384_1$
$414720_3 = \chi_{53+}$	.	1	1	.	.	$\varphi_{48+} =$	$320670_1$
$506880_1 = \chi_{54+}$	.	1	.	.	1		
$506880_2 = \chi_{55+}$	.	1	.	.	1		