

BYZANTINE MUSIC FORMULÆ

Second Mode - Sticheraric

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Key:

1 = accented syllable
0 = unaccented syllable
X = syllable that may be either
 accented or unaccented

Variations of the same formula
are indicated in color

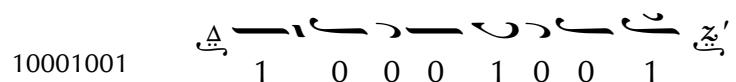
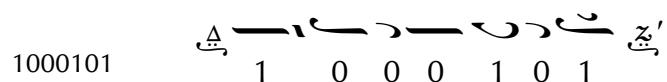
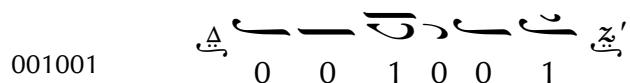
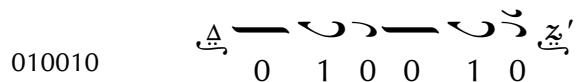
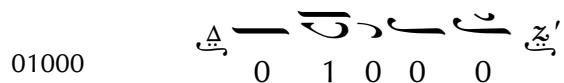
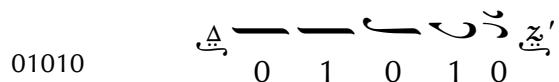
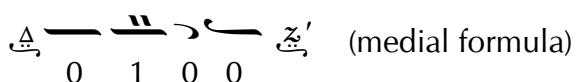
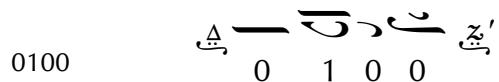
* The Byzantine music formulae herein were extracted from sticheraric melodies found in the Zoe Anastasimatarion (14th edition, 2002) Volume I of Mousike Kypsele (1883 edition), and the two-volume Athonias (1906 edition) by Petros Philanthidis.

Second Mode - Sticheraric

A) Initial Formulae: Di - Zo

(These formulae may also be used as medial formulae)

The following formulae are followed by the formulae on next page



Second Mode - Sticheraric

B) Semi-initial Formulae: Zo - Di

(to be preceded by any of the formulae in section A or E)

010	જી' ચૂં રૂં તે ા	જી' ચૂં	1
010X	જી' ચૂં — ચૂં રૂં તે ા	જી' ચૂં	X
0100	જી' ચૂં — ચૂં રૂં તે ા	રૂં	0 0
00100	જી' ચૂં ચૂં ચૂં — ચૂં રૂં તે ા	રૂં ચૂં	
100100	જી' ચૂં ચૂં ચૂં — ચૂં રૂં તે ા	રૂં ચૂં	1
0100100	જી' ચૂં ચૂં ચૂં — ચૂં રૂં તે ા		

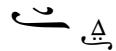
Second Mode - Sticheraric

C) Medial Formulae ending on Di

(Most of these may also be used as initial formulae)

Note that most of these formulae from Di can also be used as formulae from You simply by changing the first character. For example, the first note in the third entry can be changed from an elaphron to an ison if the initial martyria is changed from Di to You.

Also note that when a cadence ends on Di with a klasma, the klasma may be replaced by kentemata or by an antikenoma with an aple. So the cadence:



may be written as:

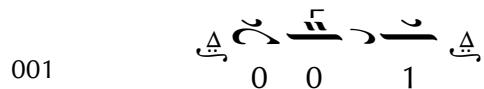


or as:



in order to flow more smoothly into the next formula.

Accented on last syllable:

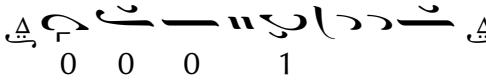


X01



Second Mode - Sticheraric

0001  0 0 0 1

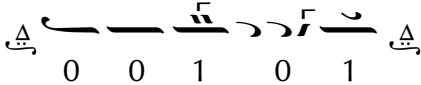
 0 0 0 1

0101  0 1 0 1

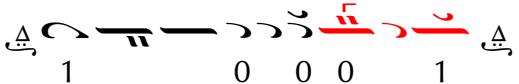
X001

 X 0 0 X

 0

00101  0 0 1 0 1

10001  1 0 0 0 1

 1 0 0 0 1 0 1

 1

 0 1

1

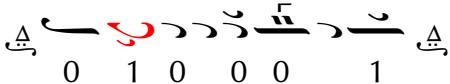
 1 0 0

100001  1 0 0 0 1

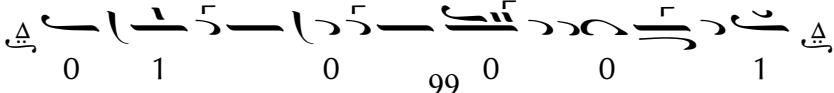
 1 0 0

010001  0 1 0 0 0 1

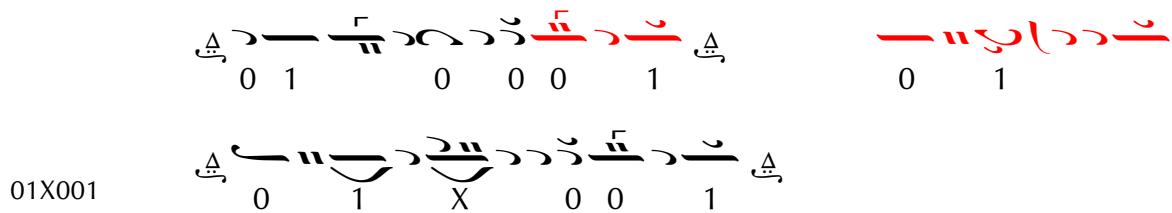
 0 1

 0 1 0 0 0 1 1

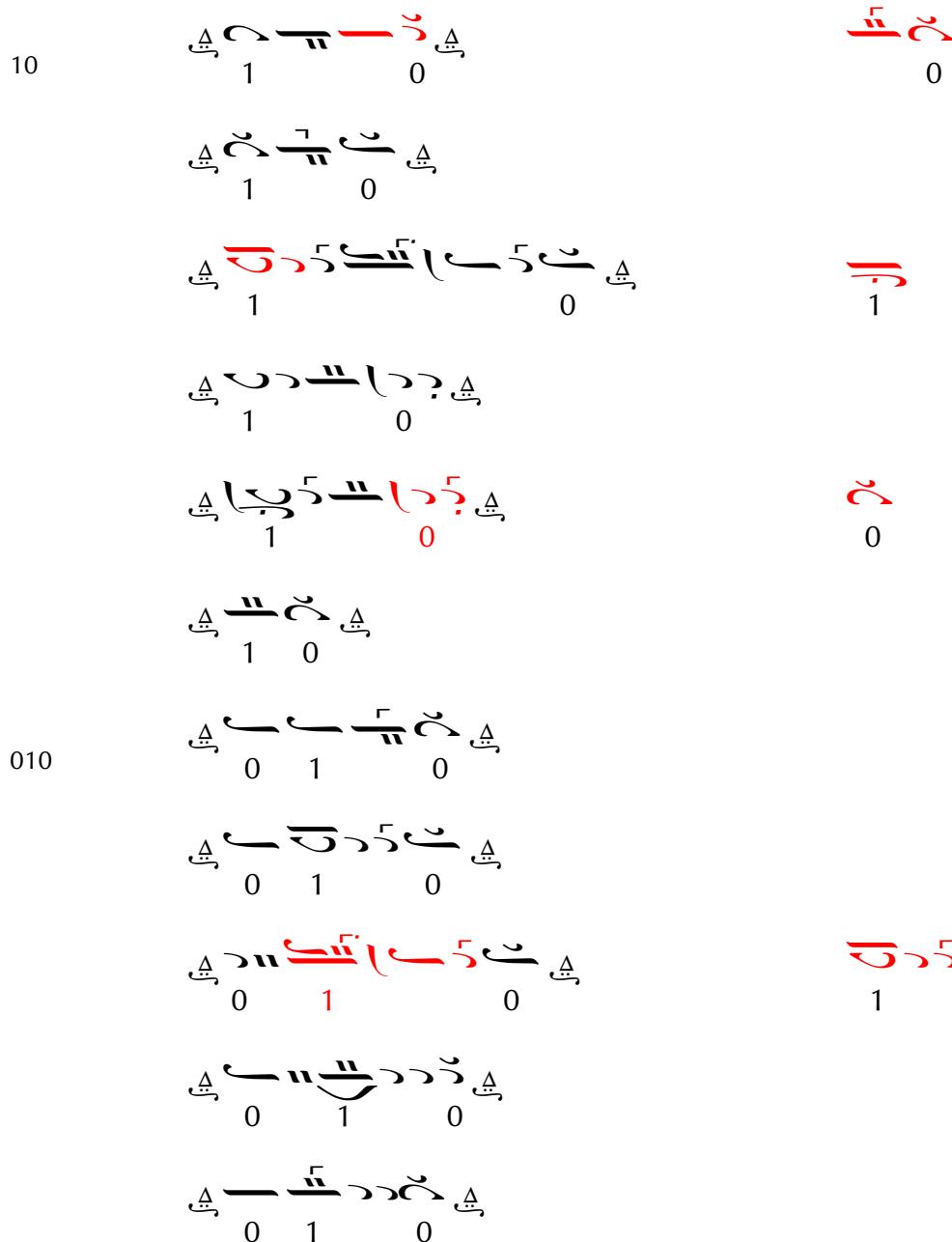
1

 0 1 0 0 0 1 99 0 0 1

Second Mode - Sticheraric



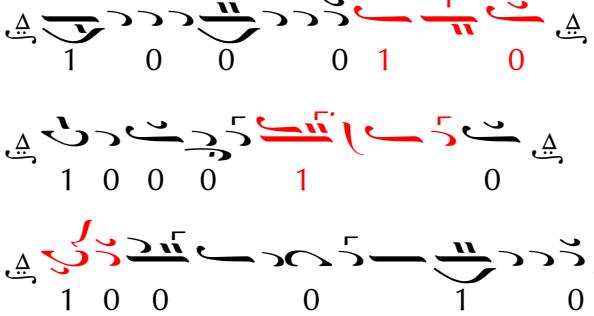
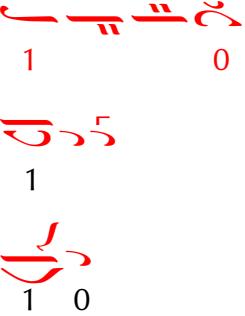
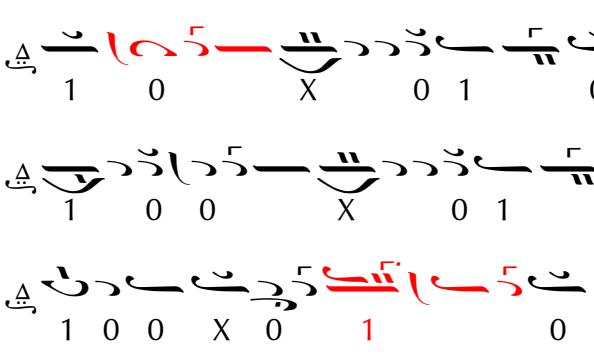
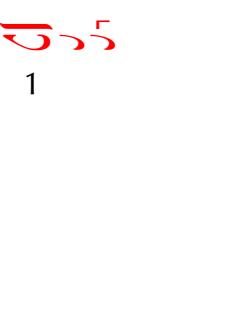
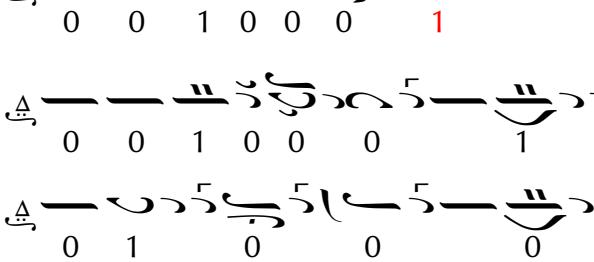
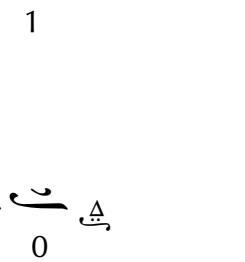
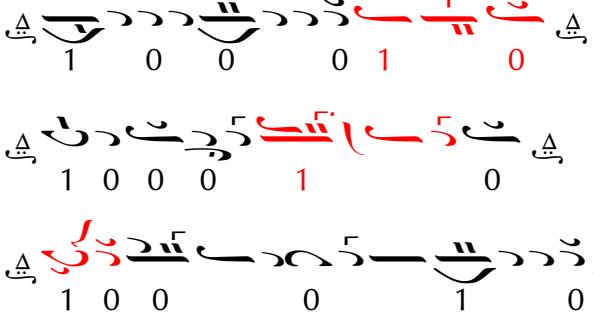
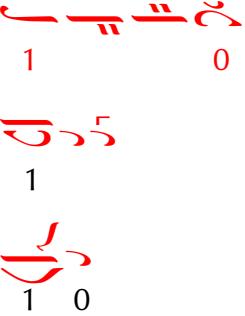
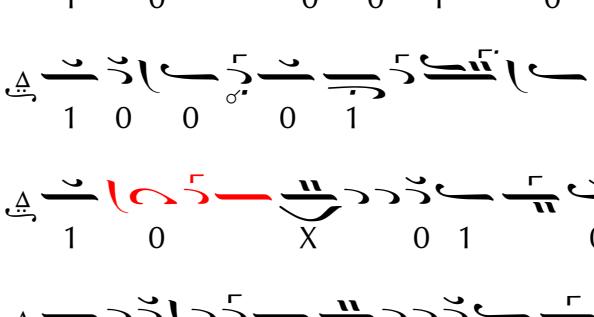
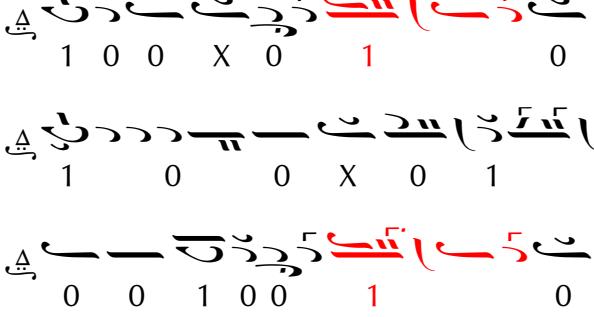
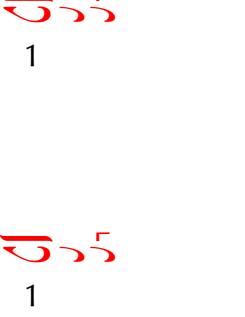
Accented on second to last syllable:



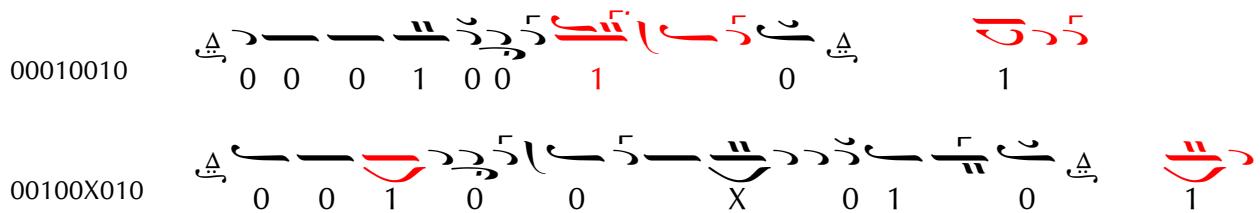
Second Mode - Sticheraric

	0	1	0	0	1	1
	0	1	0		1	1
0010	0	0	1	0	0	0
00010	0	0	0	1	0	1
	0	0	0	1	0	
10010	1	0	0	1	0	1
	1	0	0	1	0	
00X010	0	0	X	0	1	0
00X010	0	0	X	0	1	1
	0	0	1	0	1	
010010	0	1	0	0	1	0
	0	1	0	0	1	
	0	1	0	0	1	1
	0	1	0	0	1	

Second Mode - Sticheraric

		၁၂၃
100010	 $\begin{matrix} 1 & 0 & 0 & 0 & \color{red}{1} & 0 \\ 1 & 0 & 0 & 0 & 1 & 0 \end{matrix}$	 $\begin{matrix} 1 & 0 & 0 & 0 & 1 & 0 \end{matrix}$
10X010	 $\begin{matrix} 1 & 0 & X & 0 & 1 & 0 \\ 1 & 0 & 0 & X & 0 & 1 \end{matrix}$	 $\begin{matrix} 1 & 0 & 0 & X & 0 & 1 \end{matrix}$
100X010	 $\begin{matrix} 1 & 0 & 0 & X & 0 & 1 \\ 1 & 0 & 0 & 0 & 1 & 0 \end{matrix}$	 $\begin{matrix} 1 & 0 & 0 & 0 & 1 & 0 \end{matrix}$
0010010	 $\begin{matrix} 0 & 0 & 1 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 & 0 & 0 \end{matrix}$	 $\begin{matrix} 0 & 0 & 1 & 0 & 0 & 0 \end{matrix}$
1000010	 $\begin{matrix} 1 & 0 & 0 & 0 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 & 0 \end{matrix}$	 $\begin{matrix} 1 & 0 & 0 & 0 & 0 & 0 \end{matrix}$
00100010	 $\begin{matrix} 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 \end{matrix}$	 $\begin{matrix} 0 & 0 & 1 & 0 & 0 & 0 \end{matrix}$
01000010	 $\begin{matrix} 0 & 1 & 0 & 0 & 0 & 1 \\ 0 & 1 & 0 & 0 & 0 & 0 \end{matrix}$	 $\begin{matrix} 0 & 1 & 0 & 0 & 0 & 0 \end{matrix}$

Second Mode - Sticheraric



Accented on third to last syllable:

100

101

10X

10X

103

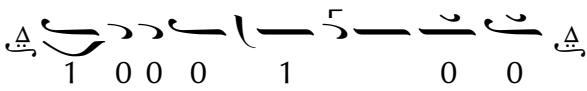
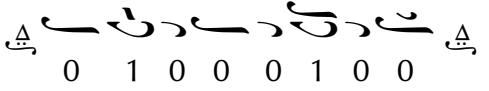
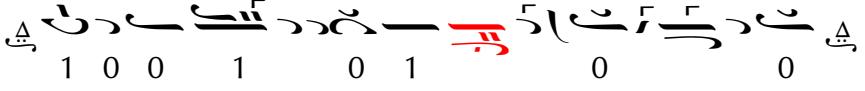
Second Mode - Sticheraric

0X01		
0100		
0101		
10100		
00100		

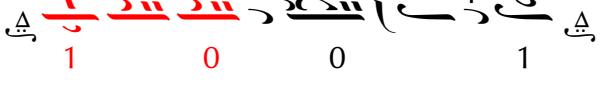
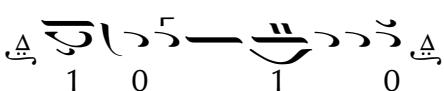
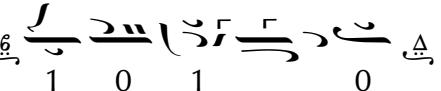
Second Mode - Sticheraric

000100	0 0 0 1 0 0 1
100100	1 0 0 1 0 X 1 0 1 0
	1 0 0 1 0 0 1
010100	0 1 0 1 0 0
	0 1 0 1 0 0
	0 1 0 1 0 0
X000100	X 0 0 0 1 0 0
0100100	0 1 0 0 1 0 0
	0 1 0 0 1 0 0
	0 1 0 0 1 0 0
1010100	1 0 1 0 1 0 0
1000100	1 0 0 0 1 0 0
1000101	1 0 0 0 1 0 1

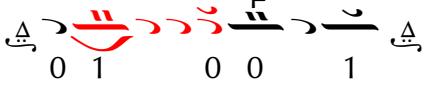
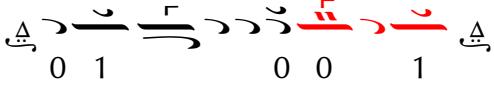
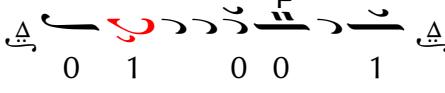
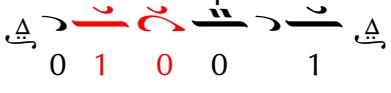
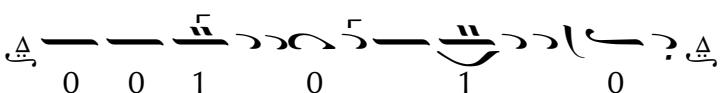
Second Mode - Sticheraric

		
01000100		
10010100		

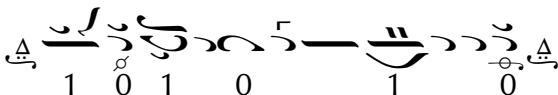
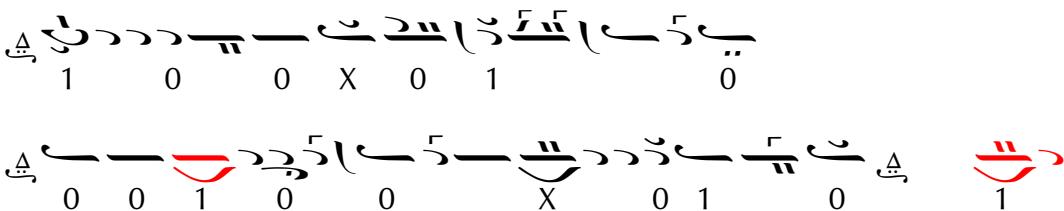
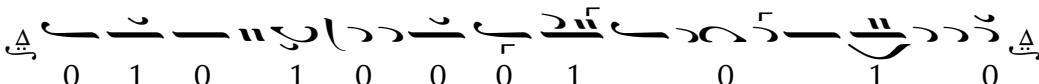
Accented on fourth to last syllable:

1000		
1001		
1X01		
		
1010		
		
		
		
X00X		
		

Second Mode - Sticheraric

01001	     	     
01010	 	 
001001	 	 
001010	 	 
00X010		

Second Mode - Sticheraric

00X010	
101010	
10X010	
100X010	
00100X010	
0101001010	

Second Mode - Sticheraric

D) Medial Cadences on You

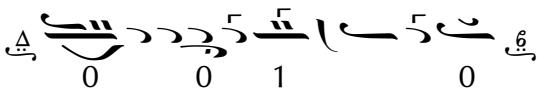
Accented on last syllable:

10001	 $\begin{matrix} 1 & 0 & 0 & 0 & 1 \end{matrix}$	 $\begin{matrix} 0 & 0 \end{matrix}$
	 $\begin{matrix} 1 & 0 & 0 & 0 & 1 \end{matrix}$	 $\begin{matrix} 0 & 0 \end{matrix}$
	 $\begin{matrix} 1 & 0 & 0 & 0 & 1 \end{matrix}$	
010001	 $\begin{matrix} 0 & 1 & 0 & 0 & 0 & 1 \end{matrix}$	 $\begin{matrix} 0 & 1 \end{matrix}$
	 $\begin{matrix} 0 & 1 & 0 & 0 & 0 & 1 \end{matrix}$	 $\begin{matrix} 0 & 1 \end{matrix}$
	 $\begin{matrix} 0 & 1 & 0 & 0 & 0 & 1 \end{matrix}$	 $\begin{matrix} 0 & 1 \end{matrix}$
100001	 $\begin{matrix} 1 & 0 & 0 & 0 & 1 \end{matrix}$	
	 $\begin{matrix} 1 & 0 & 0 & 0 & 1 \end{matrix}$	
110001	 $\begin{matrix} 1 & 0 & 0 & 0 & 1 \end{matrix}$	

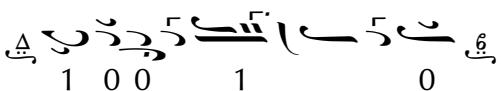
Second Mode - Sticheraric

0100X0X 

Accented on second to last syllable:

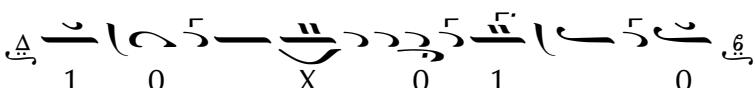
0010 

00010 

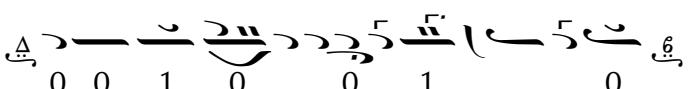
10010 



00X010 

10X010 

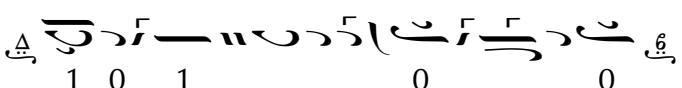
00X010 

0010010 

100X010 

10000010 

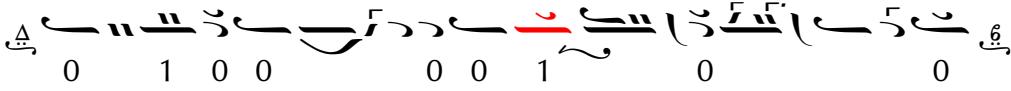
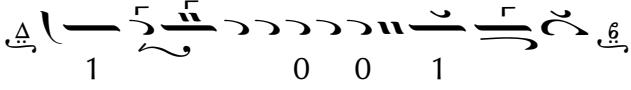
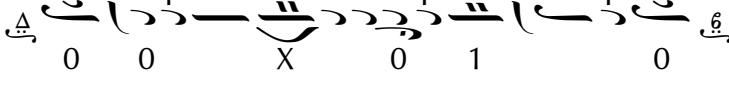
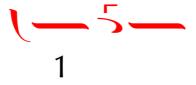
Accented on third to last syllable:

10100 

Second Mode - Sticheraric

010100	
100100	
0100100	
0100X0X	
0110100	
1000100	
01000100	

Second Mode - Sticheraric

10000100	
010000100	
<u>Accented on fourth to last syllable:</u>	
1001	
	
	
00X010	
10X010	
00X010	
1001001	
1001010	
01001001	
	 1
	 1
010001001	
	 1

Second Mode - Sticheraric

E) Medial Cadences on High Zo

01	
10	
010	
0010	
1010	
01010	
10001	
00010	
010001	

(See section B for formulae from Zo to Di)

Second Mode - Sticheraric

F) Low Nee

1) Cadences on Ga:

(usually followed by an ending on Nee or low Zo)

Accented on last syllable:

(use a formula ending in 100)

Accented on second to last syllable:

010	
0010	
00010	
10010	
100010	
0010010	

Second Mode - Sticheraric

Accented on third to last syllable:

100		100100	
0100100			
00100100			

Accented on fourth to last syllable:

1010		
01010		

2) Cadences on low Zo:

(to be followed by an ending on Nee on next page)

00010		
001010		
00100010		
0100		(this formula is not followed by a cadence on Nee)

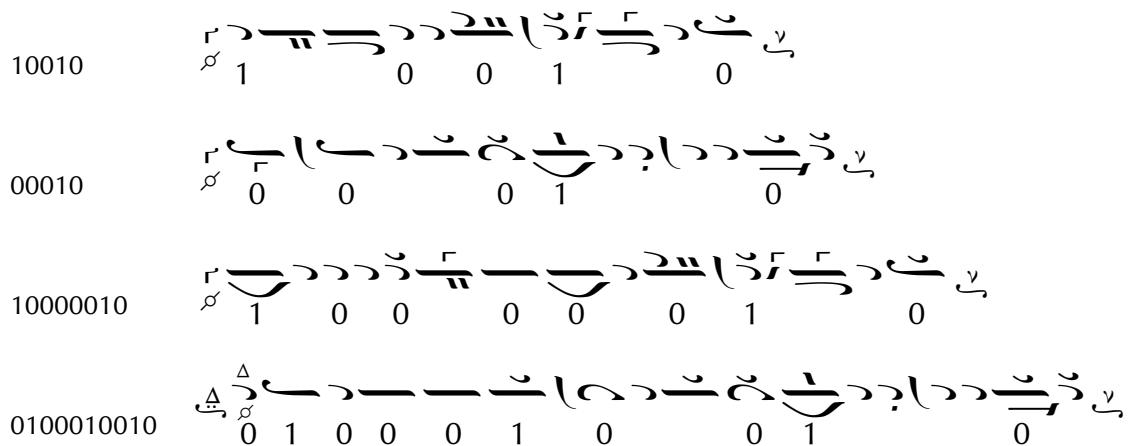
Second Mode - Sticheraric

3) Cadences on Nee:

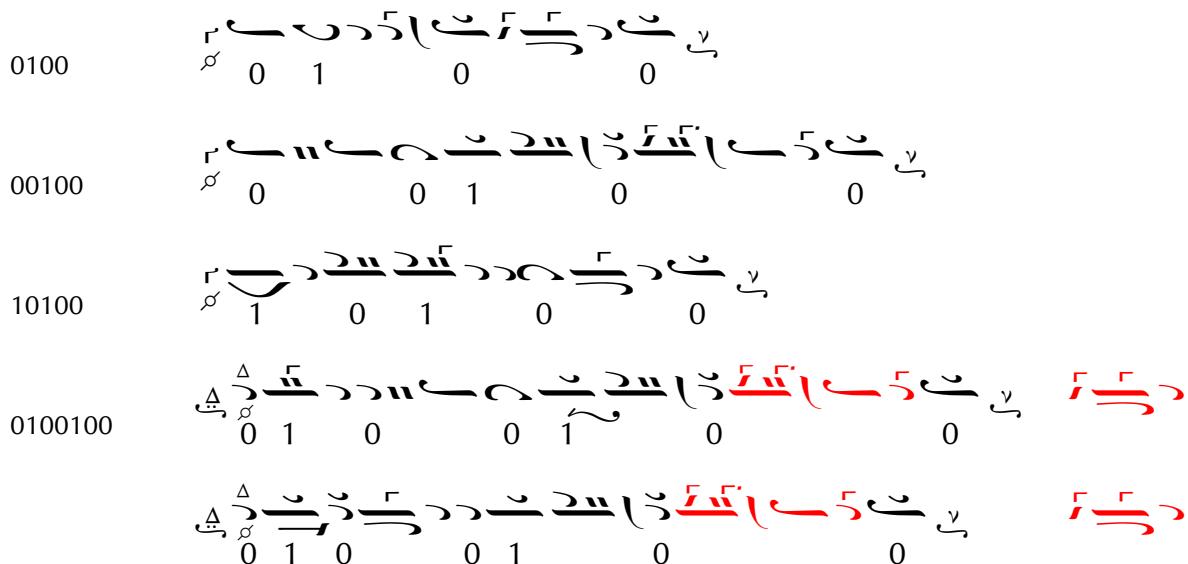
Accented on last syllable:



Accented on second to last syllable:



Accented on third to last syllable:



Second Mode - Sticheraric

001000100	
010010100	
1000101000100	

Accented on fourth to last syllable:

(For lack of a better option, use a formula in sticheraric plagal second mode on page 538 or 539)

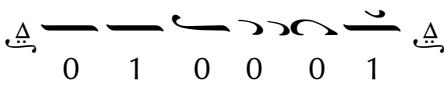
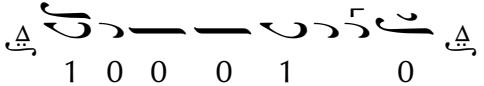
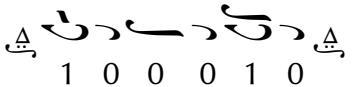
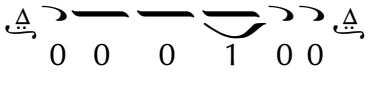
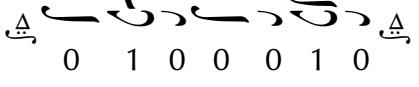
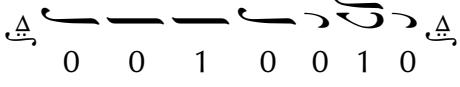
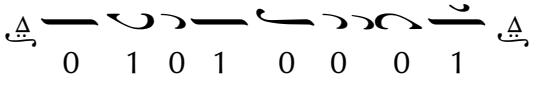
Second Mode - Sticheraric

G) Bridges

The following heirmological bridges represent only a fraction of the dozens of bridges permitted. These were selected simply as a reminder of some typical musical gestures of this mode.

10		1 0
010		0 1 0
100		1 0 0
0100		0 1 0 0
0001		0 0 0 1
0101		0 1 0 1
0100		0 1 0 0
1001		1 0 0 1
01001		0 1 0 0 1
00010		0 0 0 1 0
01010		0 1 0 1 0
00100		0 0 1 0 0
10100		1 0 1 0 0

Second Mode - Sticheraric

010001	
010100	
100010	
	
000100	
0010001	
0010010	
0100010	
0010010	
01010001	

Second Mode - Sticheraric

H) Formulae with Fthoras

100	
0010	
0100	
00010	
10001	
01010	
0X100	
10100	

Formulae with fthores ending on high Nee:

(to be followed by an ending on Di in next subsection)

10		010	
0X01			
10001			
10001			

Second Mode - Sticheraric

Formulae with fthores Nee-Di:

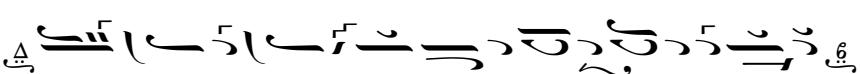
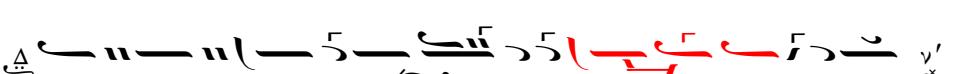
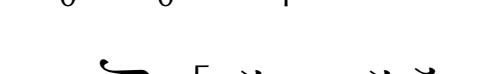
(to be preceded by an ending on high Nee in previous subsection)

100010	 $\begin{matrix} \nearrow \\ \text{x} \end{matrix}$ $\begin{matrix} \nearrow \\ 1 \end{matrix}$ $\begin{matrix} \nearrow \\ 0 \end{matrix}$ $\begin{matrix} \nearrow \\ 0 \end{matrix}$ $\begin{matrix} \nearrow \\ 1 \end{matrix}$ $\begin{matrix} \nearrow \\ 0 \end{matrix}$
0100010	 $\begin{matrix} \nearrow \\ \text{x} \end{matrix}$ $\begin{matrix} \nearrow \\ 0 \end{matrix}$ $\begin{matrix} \nearrow \\ 1 \end{matrix}$ $\begin{matrix} \nearrow \\ 0 \end{matrix}$ $\begin{matrix} \nearrow \\ 0 \end{matrix}$ $\begin{matrix} \nearrow \\ 0 \end{matrix}$ $\begin{matrix} \nearrow \\ 1 \end{matrix}$ $\begin{matrix} \nearrow \\ 0 \end{matrix}$
(1)X01010	 $\begin{matrix} \nearrow \\ \text{x} \end{matrix}$ $\begin{matrix} \nearrow \\ 0 \end{matrix}$ $\begin{matrix} \nearrow \\ 1 \end{matrix}$ $\begin{matrix} \nearrow \\ 0 \end{matrix}$ $\begin{matrix} \nearrow \\ 1 \end{matrix}$ $\begin{matrix} \nearrow \\ 0 \end{matrix}$
0100100	 $\begin{matrix} \nearrow \\ \text{x} \end{matrix}$ $\begin{matrix} \nearrow \\ 0 \end{matrix}$ $\begin{matrix} \nearrow \\ 1 \end{matrix}$ $\begin{matrix} \nearrow \\ 0 \end{matrix}$ $\begin{matrix} \nearrow \\ 0 \end{matrix}$ $\begin{matrix} \nearrow \\ 1 \end{matrix}$ $\begin{matrix} \nearrow \\ 0 \end{matrix}$

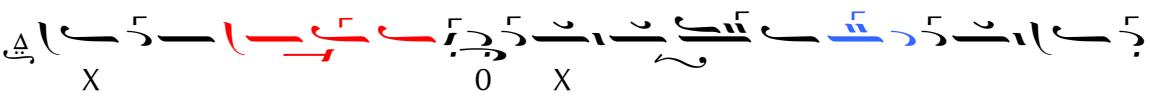
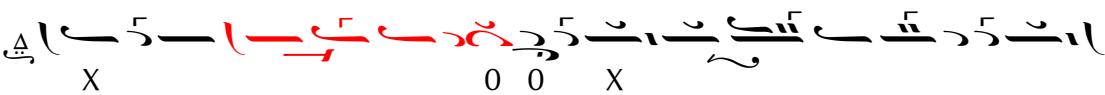
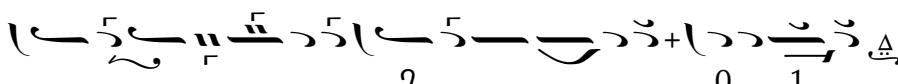
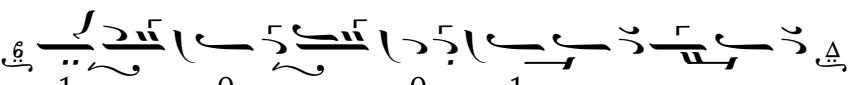
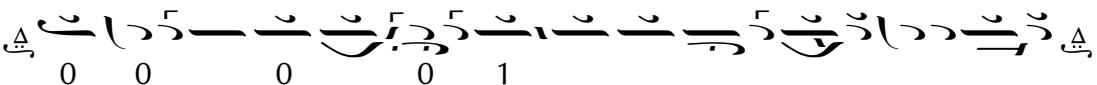
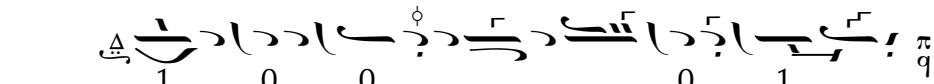
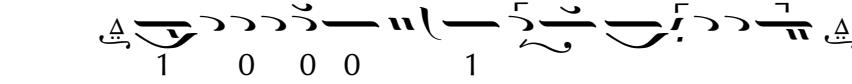
Second Mode - Sticheraric

I) Old (slow) Sticheraric Formulae (Syllables after a cross are repeated syllables)

Accented on last syllable:

01		
01		
01		
01		
01		
01		
001		
001		
001		
001		
001		

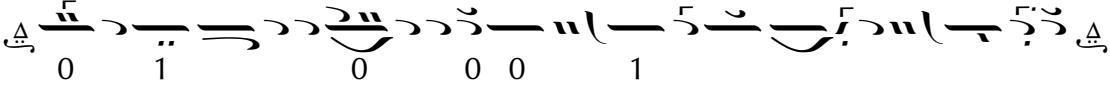
Second Mode - Sticheraric

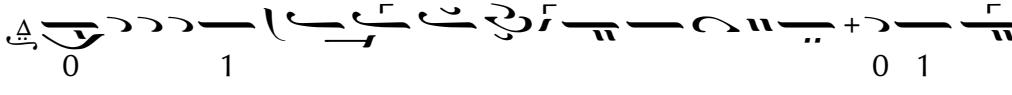
X0X	
	
X00X	
	
0001	
0001	
0001	
	
1001	
00001	
10001	
10001	

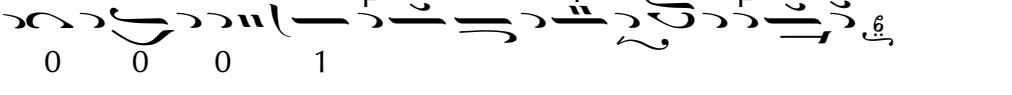
Second Mode - Sticheraric

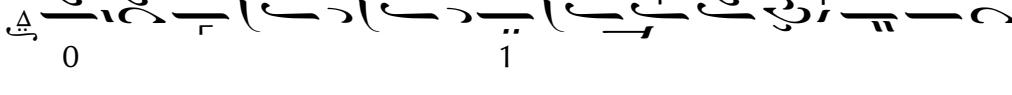
010001 

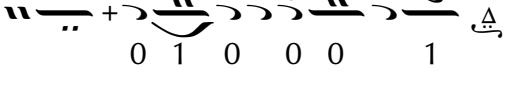
010001 

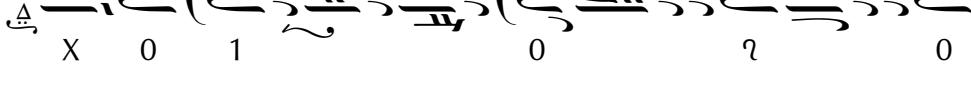
010001 

010001 

010001 

010001 

010001 

X010001 

01010001 



Second Mode - Sticheraric

Accented on second to last syllable:

10 0

10 0

10 0

10 0

10 0

10 0

010 0

010 0

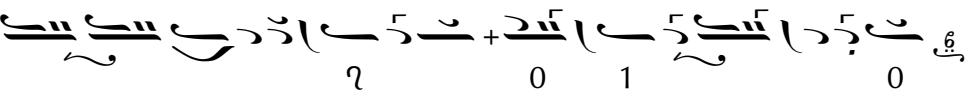
010 0

010 0

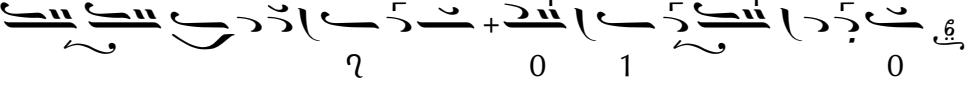
010 0

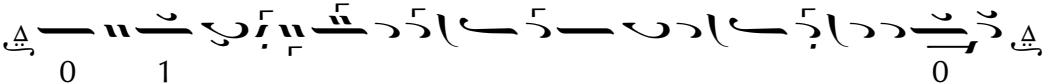
Second Mode - Sticheraric

010  0 1 0 1

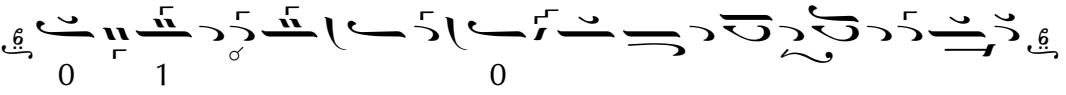
010  ? 0 1 0

010  0 1 0 1

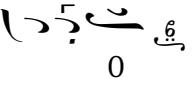
010  ? 0 1 0

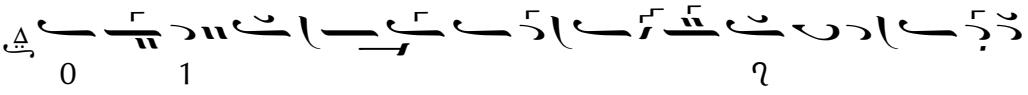
010  0 1 0

010  0 1 ? 0

010  0 1 0

010  0 1 ? 0 1

010  0

010  0 1 ?

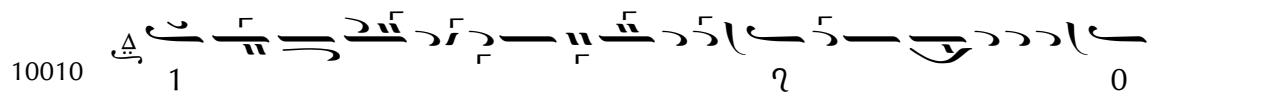
010  ? 6ε 0

010  1 0

Second Mode - Sticheraric

0010	0 0 1 0	اَنْتَ مُصْرِفٌ
0010	0 0 1 0	اَنْتَ مُصْرِفٌ
0010	0 0 1 0	اَنْتَ مُصْرِفٌ
X010	X 0 1 0	اَنْتَ مُصْرِفٌ
X010	X 0 1 0	اَنْتَ مُصْرِفٌ
X010	X 0 1 0	اَنْتَ مُصْرِفٌ
X0110	X 0 1 0	اَنْتَ مُصْرِفٌ
X0110	X 0 1 0	اَنْتَ مُصْرِفٌ
00010	0 0 0 1 0	اَنْتَ مُصْرِفٌ
0X010	0 0 0 1 0	اَنْتَ مُصْرِفٌ

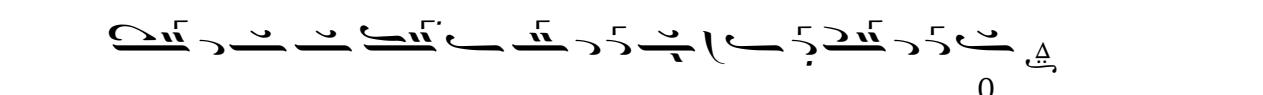
Second Mode - Sticheraric

10010 

10010 

10010 

010010 

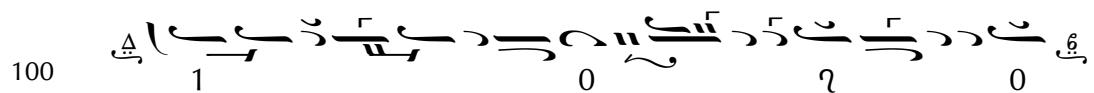
010010 

010010 

010010 

Accented on third to last syllable:

100 

100 

Second Mode - Sticheraric

100 1 0 0

100 1 0 0

100 1 0 0 0

100 1 0 0 0

100 1 0 0 0

100 1 0 0 0

100 1 0 0 0

100 1 0 0 0

100 1 0 0 0

100 1 0 0 0

100 1 0 0 0

0 0

Second Mode - Sticheraric

100		1	0	?	0	
100		1	0	?	0	
					0	
10X			0	X		
X0X		X	0	X		
					0	
0100		0	1	0	?	0
					0	
0100		0	1	0	?	0
0100		0	1	0	?	0
0100		0	1	0	0	
0100		0	1	0	0	

Second Mode - Sticheraric

0100 0 1 0 0

0100 0 1 0 0

— — —

0100 0 1 0 0

0100 0 1 0 0

0100 0 1 0 0

0100 0 1 0 0

1100 1 0 0 0

0101 0 1 0 1

0101 0 1 0 0

Second Mode - Sticheraric

۱ ۲

۰۱۰۱ ۰ ۱ ۰ ۱

۶ε ۷ε ۰

۱ ۲ ۳

۰۰۱۰۱ ۰ ۰ ۱ ۰ ۰ ۱ ۰ ۱

۱ ۲

۰۰۱۰۰ ۰ ۰ ۱ ۰ ۰ ۱

۰ ۰

۰۰۱۰۰ ۰ ۰ ۱ ۰ ۰ ۱ ۰ ۰

۰ ۰

۰۰۱۰۰ ۰ ۰ ۱ ۰ ۰ ۱ ۰ ۰

۰۰۱۰۰ ۰ ۰ ۱ ۰ ۰ ۱ ۰ ۰

Second Mode - Sticheraric

00100	0 0 1 0 0 1
	0 0 1 0 0
X0100	X 0 1 0 0 1
01100	0 1 1 0 1 0
X0110	X 0 1 0 1
	1 0
010100	0 0 1 0 1 0
	0
100100	1 0 0 1 0 0
	0
100100	1 0 0 1 0 0

Second Mode - Sticheraric

۱۰۰۱۰۰ ۰۰

۱۰۰۱۰۰ ۰۰۰۱ ۰

۱۰۰۱۰۰ ۰۰

۱۰۰۱۰۰ ۰۰۰۱ ۰

۱۰۰۱۰۰ ۰

۱۰۰۱۰۰ ۱۰۰۰۰۰۰ ۰۰۰۰۰۰ ۱

۰۰۰۰۰۰ ۰۰

۰۱۰۱۰۱۰۰ ۰۰۰۰۰۰ ۰۰۰۰۰۰ ۰۰

۰۰

۰۱۰۱۰۱۰۰ ۰۰۰۰۰۰ ۰۰۰۰۰۰ ۰۰

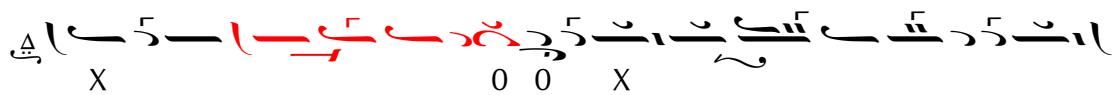
۰۰

۰۰۰۰۰۰ ۰۰۰۰۰۰ ۰۰

Second Mode - Sticheraric

Accented on fourth to last syllable:

X00X

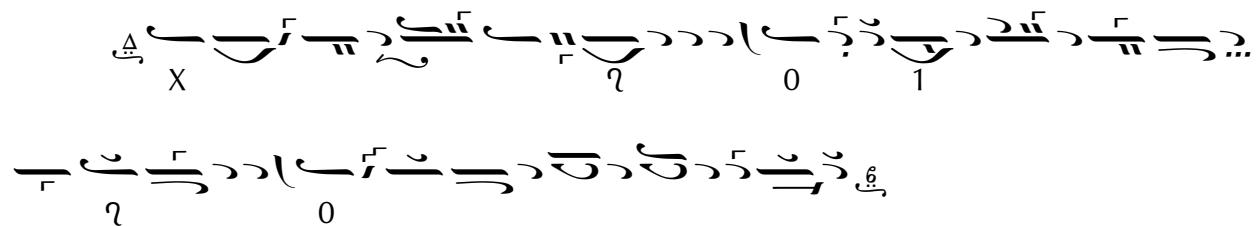


X010

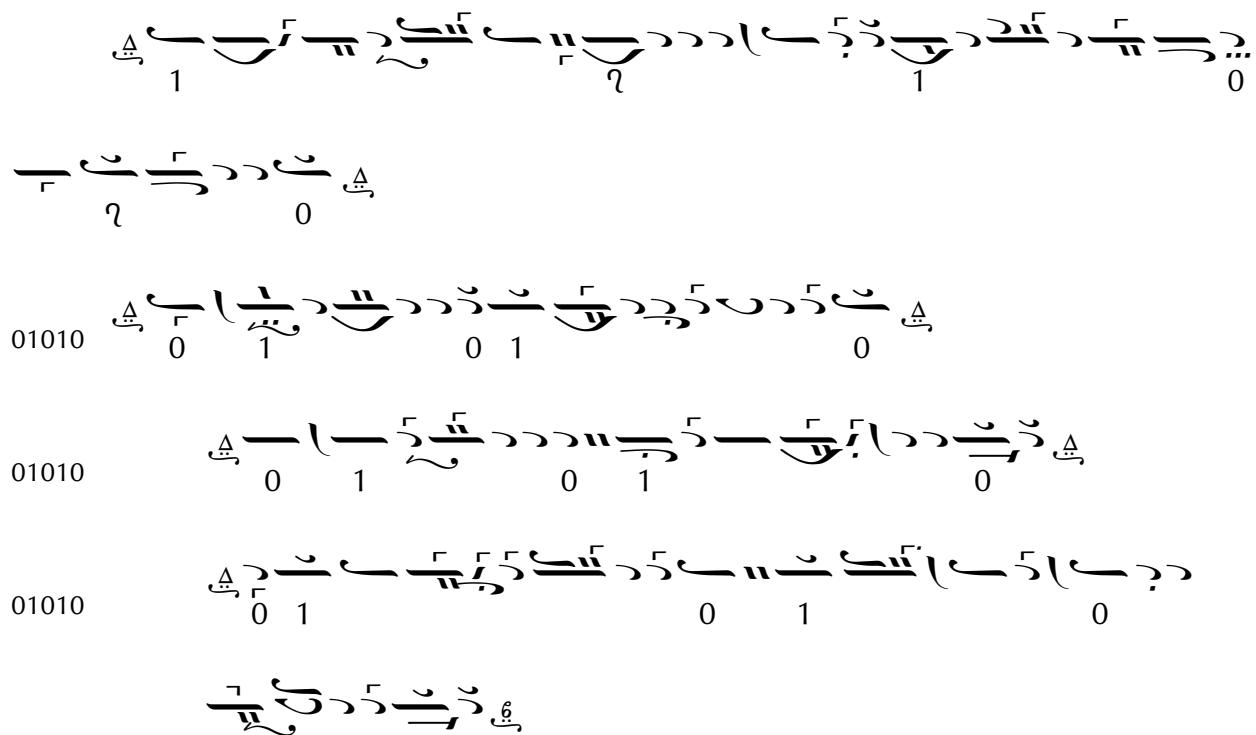


Second Mode - Sticheraric

X010



1100



Second Mode - Sticheraric

Cadences on Low Nee:

010 0 1 0

100 1 0 0

100 1 0 ? 0

100 1 0 0

100 1 0 ? 0

0100 0 1 0 0 0

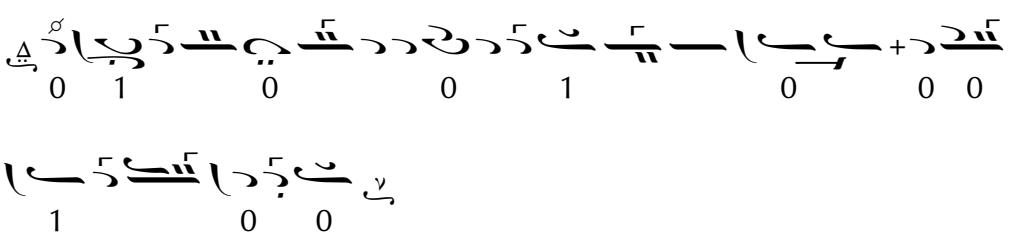
10010 1 0 0 0 1 0

00100 0 0 1 0 0

Second Mode - Sticheraric

00100	0	0	1	0	0	0	1
	0	0					
00100	0	0	1	0	0	0	1
	0	0					
10100	1	0	1	0	0	0	1
	0	0					
000100	0	0	0	1	0		
	0						
010100	0	1	0	1	0	0	?
	0						
0100100	0	1	0	0	1	0	
	0						
	?		0				

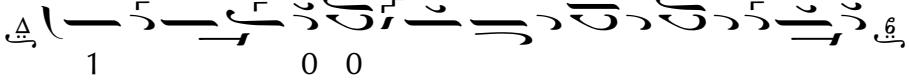
Second Mode - Sticheraric

0100100 

Second Mode - Sticheraric

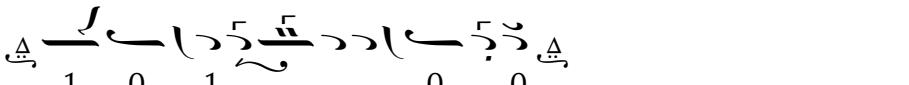
J) Ending Formulae

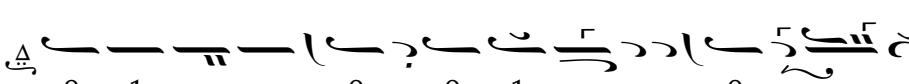
1) Formulae found only near the end:

100 

00100 

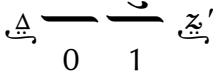
00100 

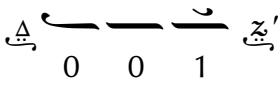
10100 

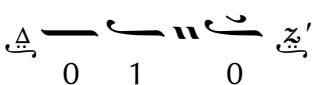
0100100 

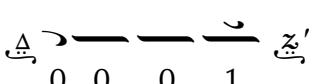
2) Semi-final Cadences

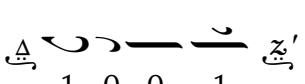
(to be followed by formulae in next section):

01 

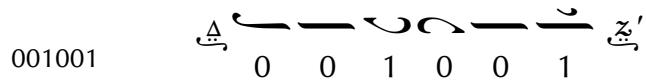
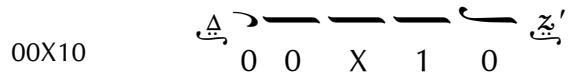
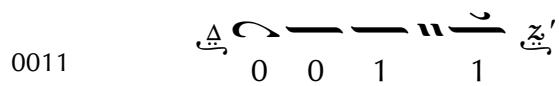
001 

010 

0001 

1001 

Second Mode - Sticheraric



3) Final Cadences

(usually preceded by previous "semi-final" cadences):

Accented on last syllable:

1X00X

1 X 0 0 X

0X10X

0 X 1 0 X 0

Accented on second to last syllable:

0XX10

0 X X 1 0

Accented on third to last syllable:

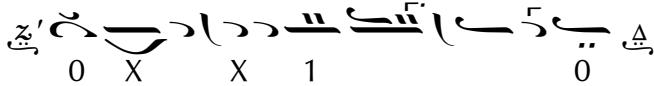
0X10X

0 X 1 0 X 0

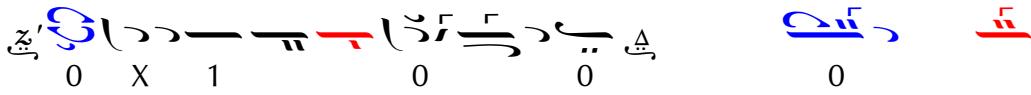
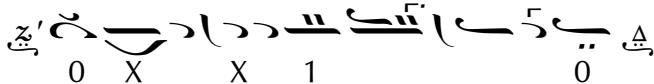
0X100

0 X 1 0 0 0

Second Mode - Sticheraric

0XX10 

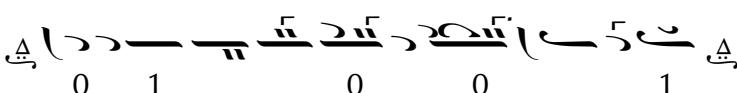
Accented on fourth to last syllable:

0X10X	
0X100	
0XX10	
1X00X	
0X100X	

4) Other Final Cadences:

(not preceded by a High Zo "semi-final" cadence):

Accented on last syllable:

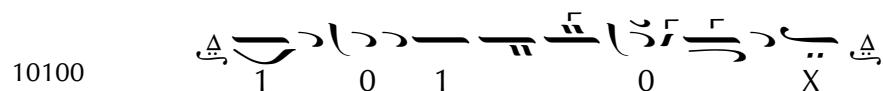
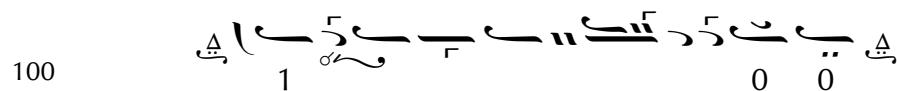
01001	
10010X	
1000101	

Second Mode - Sticheraric

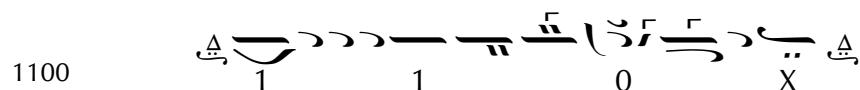
Accented on second to last syllable:



Accented on third to last syllable:



Accented on fourth to last syllable:



Second Mode - Sticheraric

K) Final Cadences for Theotokia

