

# BYZANTINE MUSIC FORMULÆ

## *Pentaphonos "Protovarys" Grave 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

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\* The Byzantine music formulae herein were extracted from all the sticheraric protovarys melodies found in the *Zoe Anastasimatarion* (14th edition, 2002) and the *Anastasimatarion Neon* (1853 edition). The latter contains the troparia of grave mode composed "kata to pentaphonon" by Georgios the Kres (d. 1816), as transcribed from the old notation by Z. Zapheiroopoulos (d. 1851). Due to the limited number of troparia written in this rare mode, this compilation of formulae is not as thorough as our other compilations. Nevertheless, one may deduce other formulae in this mode by interpolating the formulaic rules and patterns found in other diatonic modes.

**A) Medial Cadences on Di**

Accented on last syllable:

From Di

00  $\overset{\Delta}{\underset{\text{di}}{\curvearrowright}} \overset{\curvearrowright}{\text{0}} \overset{\curvearrowright}{\text{0}} \overset{\Delta}{\underset{\text{di}}{\curvearrowright}}$

000  $\overset{\Delta}{\underset{\text{di}}{\curvearrowright}} \overset{\curvearrowright}{\text{0}} \overset{\curvearrowright}{\text{0}} \overset{\curvearrowright}{\text{0}} \overset{\Delta}{\underset{\text{di}}{\curvearrowright}}$

0000  $\overset{\Delta}{\underset{\text{di}}{\curvearrowright}} \overset{\curvearrowright}{\text{0}} \overset{\curvearrowright}{\text{0}} \overset{\curvearrowright}{\text{0}} \overset{\curvearrowright}{\text{0}} \overset{\Delta}{\underset{\text{di}}{\curvearrowright}}$

010001  $\overset{\Delta}{\underset{\text{di}}{\curvearrowright}} \overset{\curvearrowright}{\text{0}} \overset{\curvearrowright}{\text{1}} \overset{\curvearrowright}{\text{0}} \overset{\curvearrowright}{\text{0}} \overset{\curvearrowright}{\text{0}} \overset{\curvearrowright}{\text{0}} \overset{\curvearrowright}{\text{1}} \overset{\Delta}{\underset{\text{di}}{\curvearrowright}}$

$\overset{\Delta}{\underset{\text{di}}{\curvearrowright}} \overset{\curvearrowright}{\text{0}} \overset{\curvearrowright}{\text{1}} \overset{\curvearrowright}{\text{0}} \overset{\curvearrowright}{\text{0}} \overset{\curvearrowright}{\text{0}} \overset{\curvearrowright}{\text{1}} \overset{\Delta}{\underset{\text{di}}{\curvearrowright}}$

100001  $\overset{\Delta}{\underset{\text{di}}{\curvearrowright}} \overset{\curvearrowright}{\text{1}} \overset{\curvearrowright}{\text{0}} \overset{\curvearrowright}{\text{0}} \overset{\curvearrowright}{\text{0}} \overset{\curvearrowright}{\text{0}} \overset{\curvearrowright}{\text{0}} \overset{\curvearrowright}{\text{1}} \overset{\Delta}{\underset{\text{di}}{\curvearrowright}}$

From Pa

00  $\overset{\pi}{\underset{\text{pa}}{\curvearrowright}} \overset{\curvearrowright}{\text{0}} \overset{\curvearrowright}{\text{0}} \overset{\Delta}{\underset{\text{di}}{\curvearrowright}}$

0001  $\overset{\pi}{\underset{\text{pa}}{\curvearrowright}} \overset{\curvearrowright}{\text{0}} \overset{\curvearrowright}{\text{0}} \overset{\curvearrowright}{\text{0}} \overset{\curvearrowright}{\text{1}} \overset{\Delta}{\underset{\text{di}}{\curvearrowright}}$


From Zo

00  $\overset{z}{\underset{\text{zo}}{\curvearrowright}} \overset{\curvearrowright}{\text{0}} \overset{\curvearrowright}{\text{0}} \overset{\Delta}{\underset{\text{di}}{\curvearrowright}}$

00X0  $\overset{z}{\underset{\text{zo}}{\curvearrowright}} \overset{\curvearrowright}{\text{0}} \overset{\curvearrowright}{\text{0}} \text{X} \overset{\curvearrowright}{\text{0}} \overset{\Delta}{\underset{\text{di}}{\curvearrowright}}$

0001  $\overset{z}{\underset{\text{zo}}{\curvearrowright}} \overset{\curvearrowright}{\text{0}} \overset{\curvearrowright}{\text{0}} \overset{\curvearrowright}{\text{0}} \overset{\curvearrowright}{\text{1}} \overset{\Delta}{\underset{\text{di}}{\curvearrowright}}$

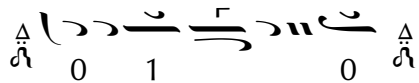
*Grave Mode - Protovarys (Sticheraric)*

100010 

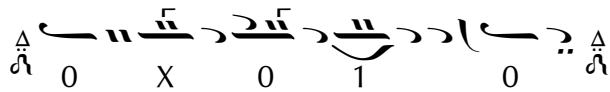
Accented on second to last syllable:

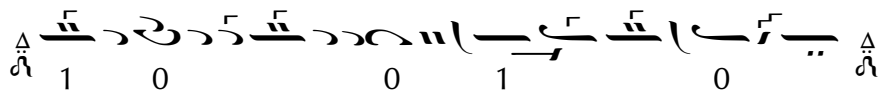
From Di

010 

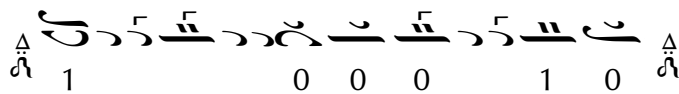




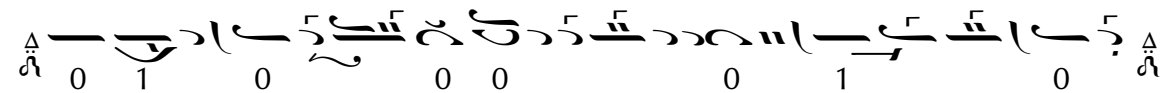
0X010 

10010 

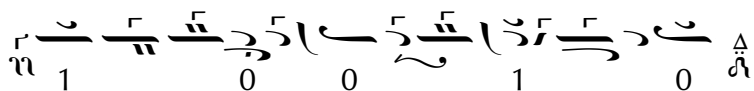
010010 

100010 

01000010



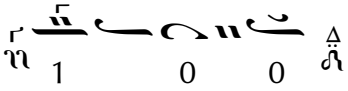
From Ga

10010 

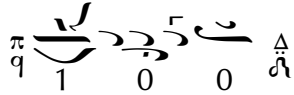
From Pa

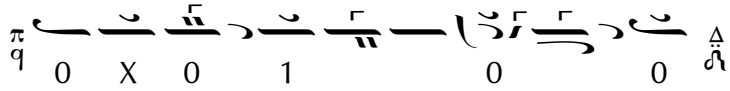


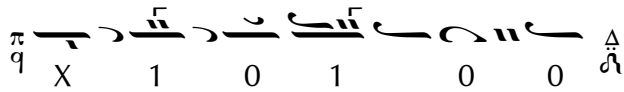
*Grave Mode - Protovarys (Sticheraric)*

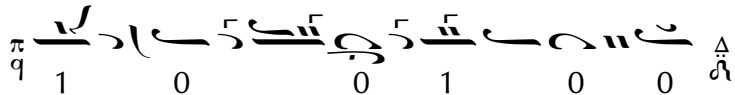
100 

From Pa


100 

0X0100 

X10100 

100100 

From Zo

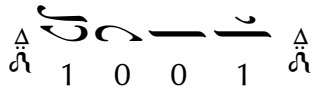
100 

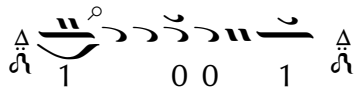
Accented on fourth to last syllable:

From Di

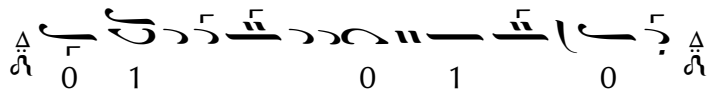
1001 







01001 

01010 

*Grave Mode - Protovarys (Sticheraric)*

From Pa

1001

1010

From Zo

1001

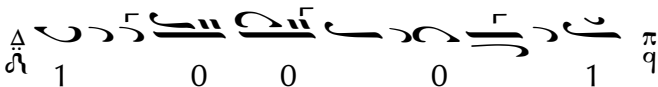
01001

**B) Medial Cadences on Pa**

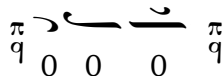
Accented on last syllable:

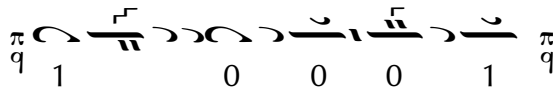
From Di

00 

10001 

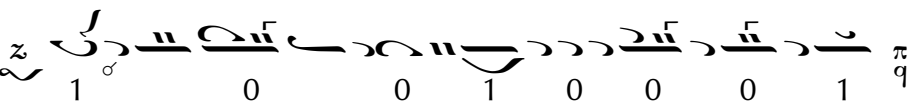
From Pa

000 

10001 


From Zo

00 

10010001 

Accented on second to last syllable:

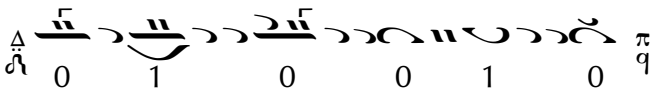
From Di

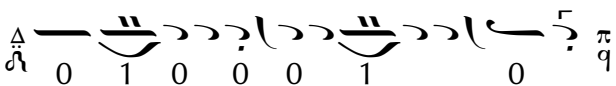
10 

010 



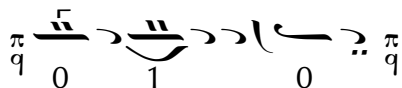
*Grave Mode - Protovarys (Sticheraric)*

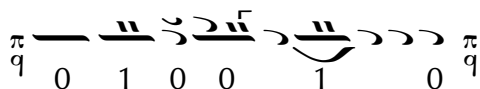
010010 

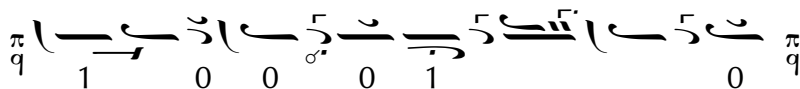
0100010 

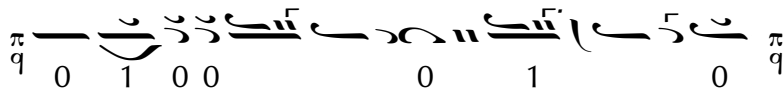
From Pa

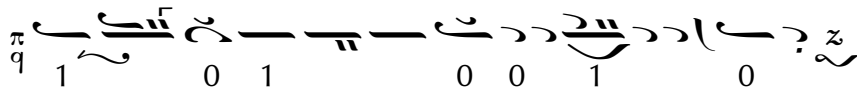
10 

010 

010010 

100010 

0100010 

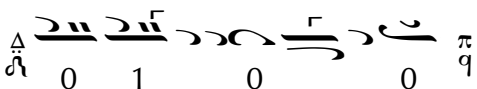
1010010 

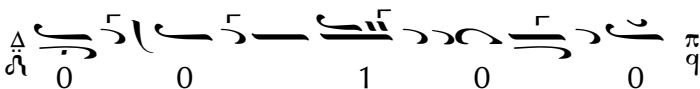
From Zo

10010 

Accented on third to last syllable:

From Di

0100 

00100 



*Grave Mode - Protovarys (Sticheraric)*

100100

1010100

From Ga

0100

10100

From Pa

0100

100100

From Zo

100

0100100

Accented on fourth to last syllable:

From Di



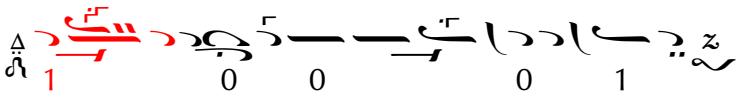

*Grave Mode - Protovarys (Sticheraric)*

**C) Medial Cadences on Zo**

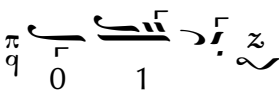
(These are also used as final cadences.)

Accented on last syllable:

From Di

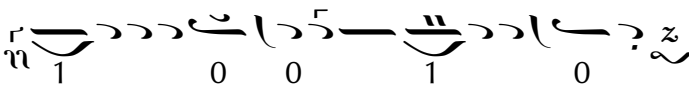
10001  

From Pa

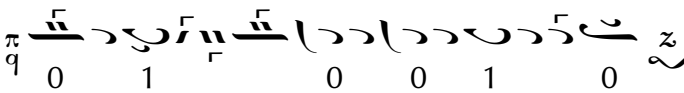
01 

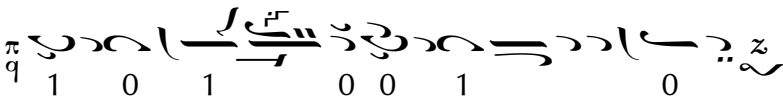
Accented on second to last syllable:

From Ga

10010 

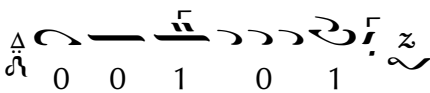
From Pa


010010 

1010010 

Accented on third to last syllable:

From Di

00100 

10100 

*Grave Mode - Protovarys (Sticheraric)*

$\Delta$   
 $\delta$  1 0 1 0 0

100100

$\Delta$   
 $\delta$  1 0 0 1 0 0 0

1000100

$\Delta$   
 $\delta$  1 0 0 0 0 1 0 0

1000100

$\Delta$   
 $\delta$  1 0 0 0 1 0 0 0 0

1000100

$\Delta$   
 $\delta$  1 0 0 0 1 0 0

From Ga

$\Gamma$   
 $\gamma$  1 0 0 1 0 0

100100

From Pa

$\pi$   
 $q$  0 1 0 0

0100

$\pi$   
 $q$  0 1 0 0

$\pi$   
 $q$  0 1

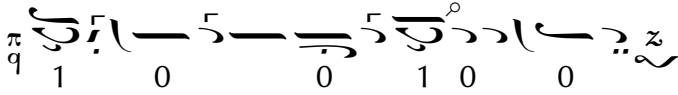
$\pi$   
 $q$  1 0 1 0 0

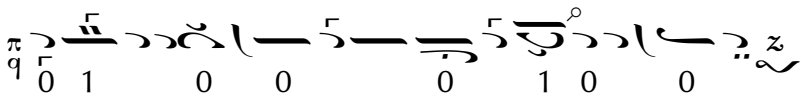
10100

$\pi$   
 $q$  1 0 1 0 0

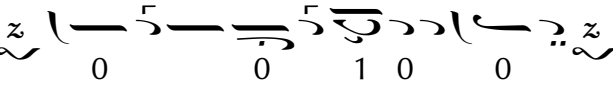
$\pi$   
 $q$  0 1

*Grave Mode - Protovarys (Sticheraric)*

100100 

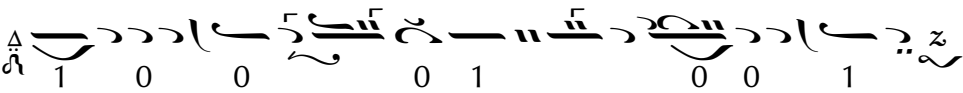
01000100 

From Zo

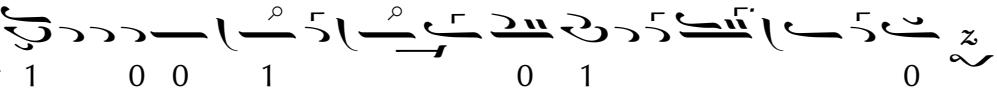
00100 

Accented on fourth to last syllable:

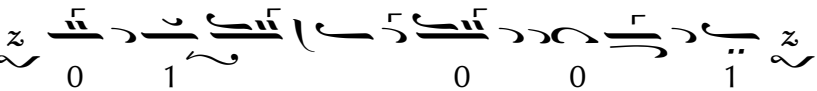
From Di

10001001 

From Ga

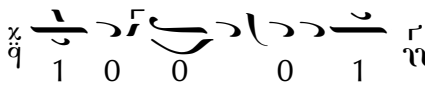
1001010 

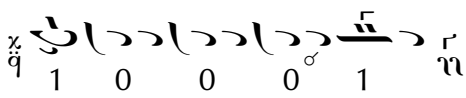
From Zo

01001 

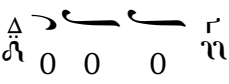
**D) Medial Cadences on Ga**

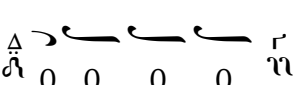
From Ke

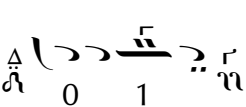
10001 

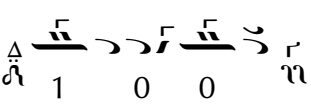


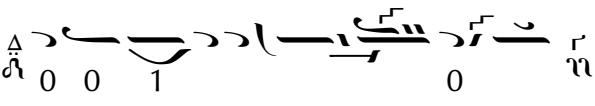
From Di

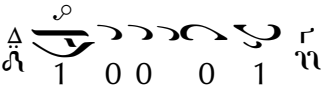
000 

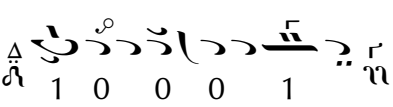
0000 

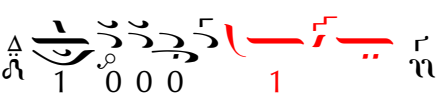
01 


100 

0010 

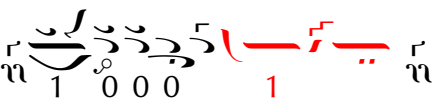
10001 




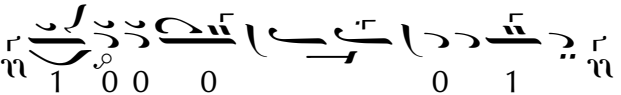




From Ga

10001 





*Grave Mode - Protovarys (Sticheraric)*

10010

From Pa

00

010001

From Zo


10

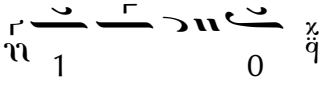
010

1001

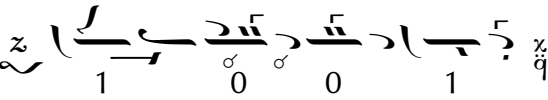
*Grave Mode - Protovarys (Sticheraric)*

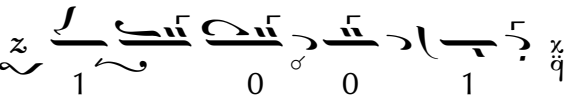
**E) Medial Cadences on Ke**

10 

10 

0001 

1001 

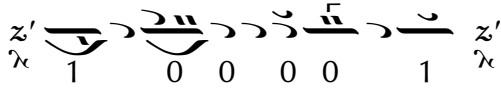
1001 

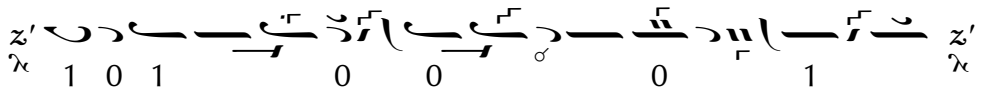


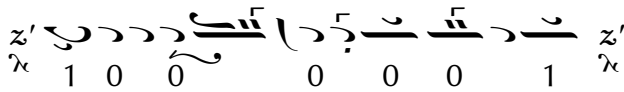
**F) Medial Cadences on High Zo**

Accented on last syllable:

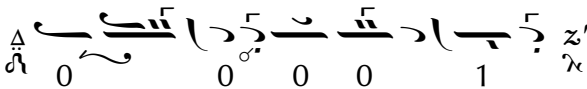
From High Zo

100001 

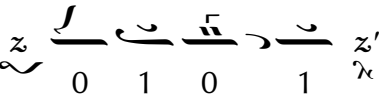
1010001 

1000001 

From Di

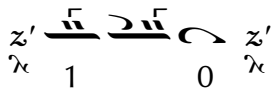
00001 

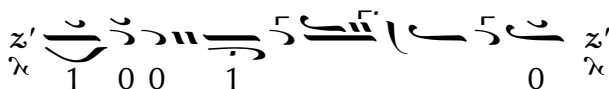
From Zo

0101 

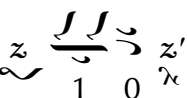
Accented on second to last syllable:

From High Zo

10 

10010 

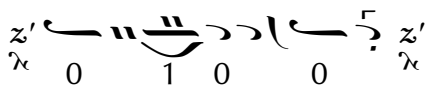
From Zo

10 

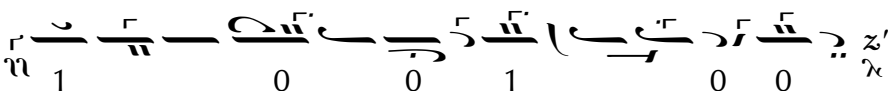
*Grave Mode - Protovarys (Sticheraric)*

Accented on third to last syllable:

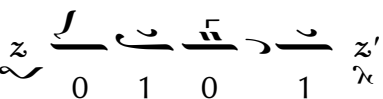
From High Zo

0100 

From Ga

100100 

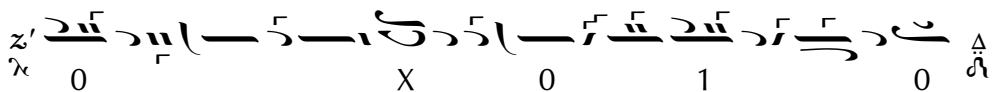
From Zo

0101 

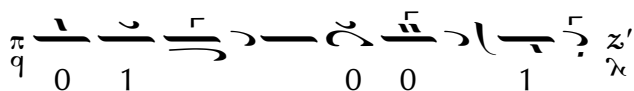
Accented on fourth to last syllable:

From High Zo

1001 

0X010 

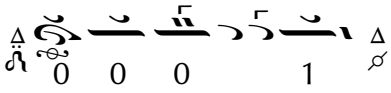
From Pa

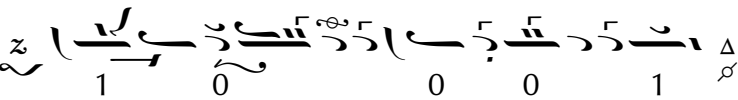
01001 



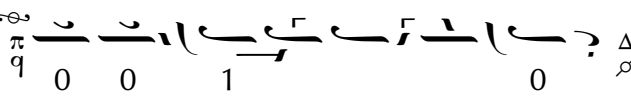
**H) Formulae with Fthoras**

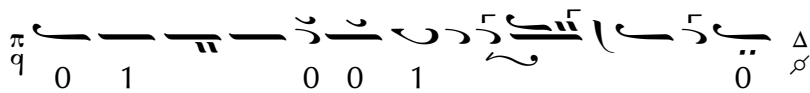
Accented on last syllable:

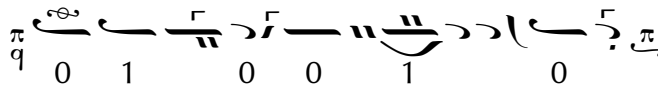
0001 

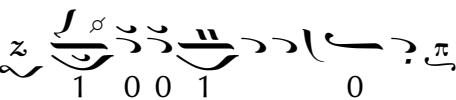
10001 

Accented on second to last syllable:

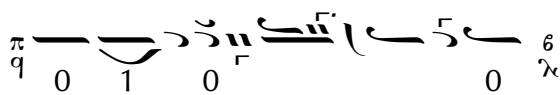
0010 

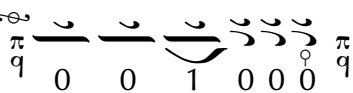
010010 



10010 

Accented on third to last syllable:

0100 

00100 

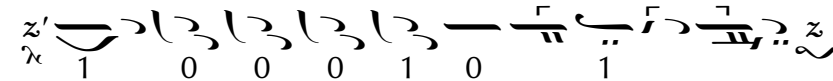
Accented on fourth to last syllable:

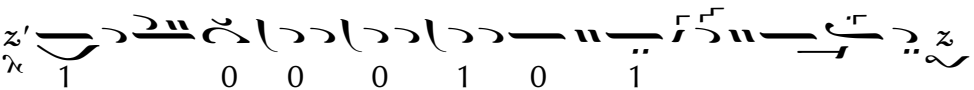
1001 

**I) Endings for Theotokia**

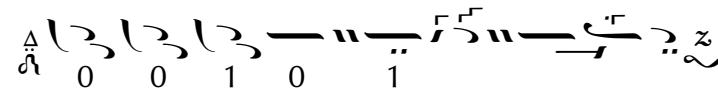
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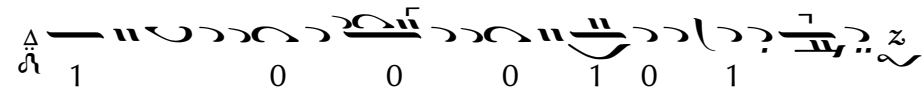
From High Zo

1000101 



From Di

00101 

1000101 

Accented on fourth to last syllable:

From Zo

X010 