

# BYZANTINE MUSIC FORMULAE

## *Plagal Second Mode - Heirmologic*

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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 heirmologic melodies found in the *Zoe Anastasimatarion* (14th edition, 2002).

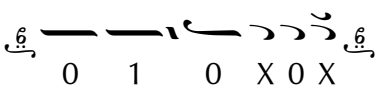
**A) Medial Cadences on Vou**

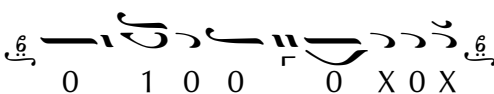
Accented on last syllable:

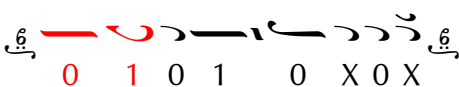
From Vou

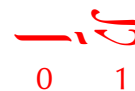
00 

01 

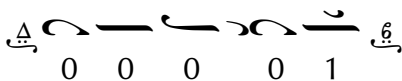
010X0X 

01000X0X 

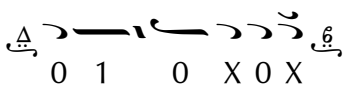
01010X0X 

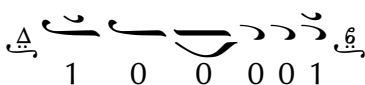


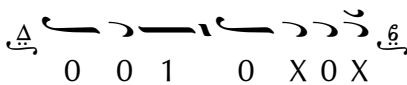
From Di

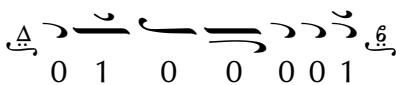
00001 

010001 

010X0X 

100001 


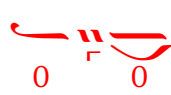
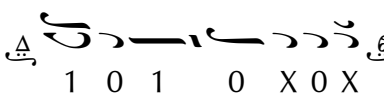
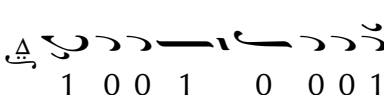
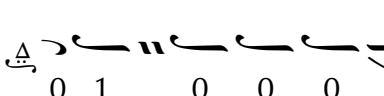
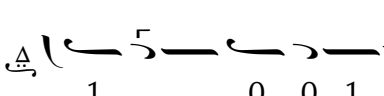
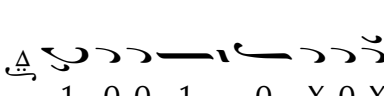
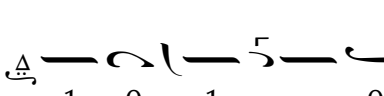
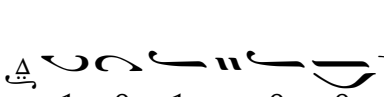
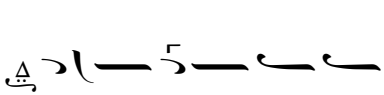

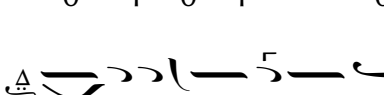
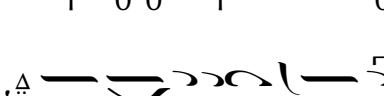
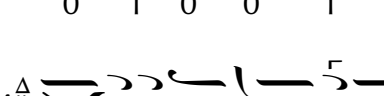
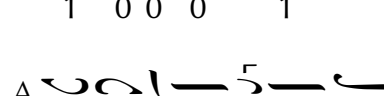
0010X0X 

0100001 

0100X0X 



*Plagal Second Mode - Heirmologic (Soft Chromatic)*

1000X0X		
1010X0X		
10010001		
01000X0X		
10010X0X		
		
1010010X		
10100X0X		
010000X0X		
010100X0X		
100100X0X		
0100100X0X		
1000100X0X		
1010000X0X		

*Plagal Second Mode - Heirmologic (Soft Chromatic)*

01010000X0X	
10000100X0X	
10010000X0X	

Accented on second to last syllable:

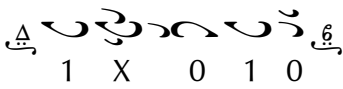
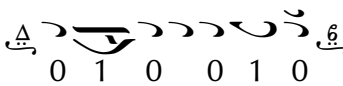


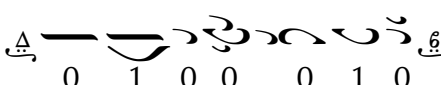
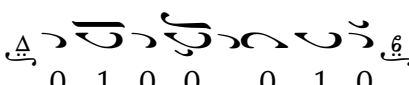
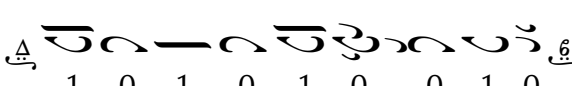
From Vou

10		
1000010		
0X010010		
01010010		

From Di

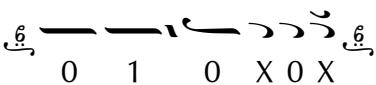
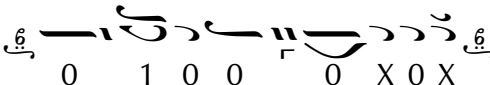
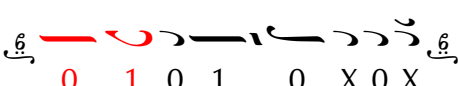
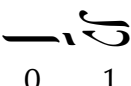
0010		
10010		

*Plagal Second Mode - Heirmologic (Soft Chromatic)*

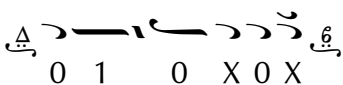
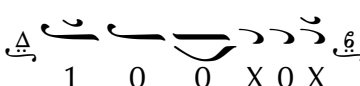
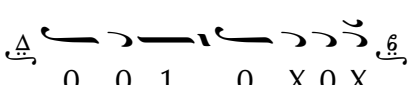
1X010		
010010		
0010010		
0100010		
		
101010010		

Accented on third to last syllable:

From Vou

010X0X		
01000X0X		
01010X0X		

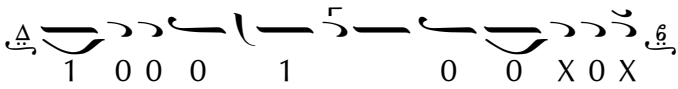
From Di

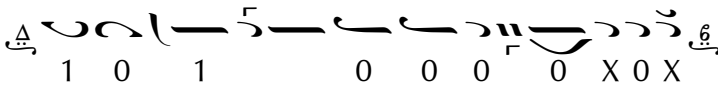
010X0X	
100X0X	
0010X0X	

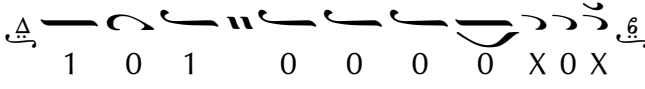
*Plagal Second Mode - Heirmologic (Soft Chromatic)*

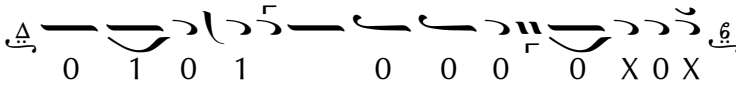
0100100		
0100X0X		
1000X0X		
1010X0X		
10010X0X		
1010010X		
10100X0X		
010000X0X		
100100100		
010100X0X		
100100X0X		
0100100X0X		

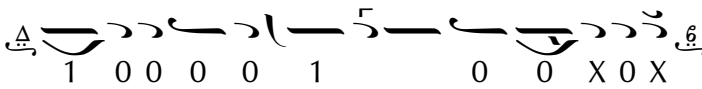
*Plagal Second Mode - Heirmologic (Soft Chromatic)*

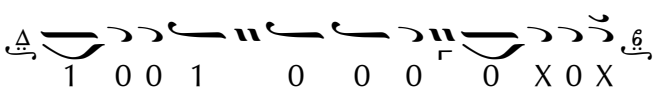
1000100X0X 

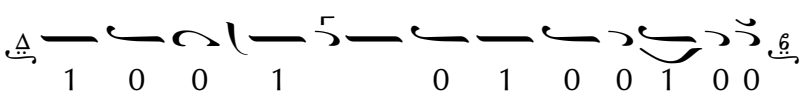
1010000X0X 

 1010000X0X

01010000X0X 

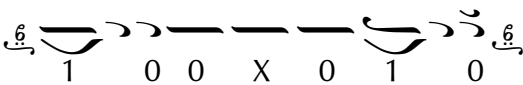
10000100X0X 

10010000X0X 

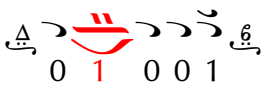

10010100100 

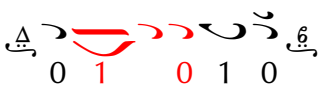

Accented on fourth to last syllable:


From Vou

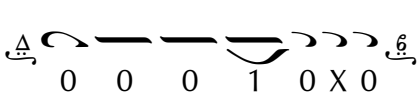
100X010 

From Di

01001  

01010  

1X010 

00010X0 

*Plagal Second Mode - Heirmologic (Soft Chromatic)*

1001001	
1001010	
10001001	



*Plagal Second Mode - Heirmologic (Soft Chromatic)*

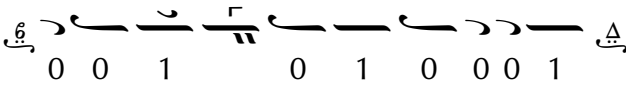
**B) Medial Cadences on Di**

Accented on last syllable:

From Vou

00		
000		
01		
001		
10001		
010001		
100001		
01010001		
10010001		

*Plagal Second Mode - Heirmologic (Soft Chromatic)*

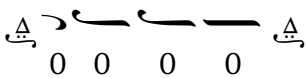
001010001 

From Di

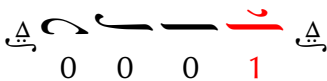

00 

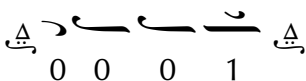
000 



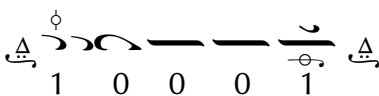
0000 

001  

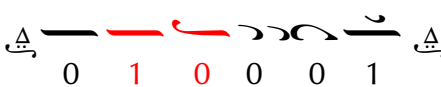

0001  



10001 



010001  

100001  

*Plagal Second Mode - Heirmologic (Soft Chromatic)*

0100001		
1000001		
1010001		
01000001		
010X0001		
01010001		
000010001		
000100001		
010010001		
010100001		
0000100001		
00100100001		

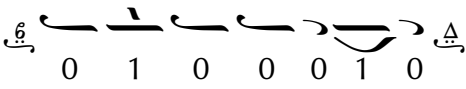
*Plagal Second Mode - Heirmologic (Soft Chromatic)*

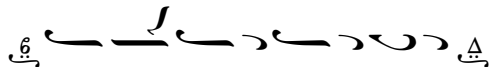
Accented on second to last syllable:

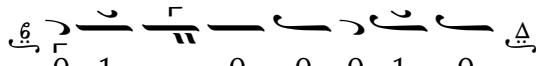
From Vou

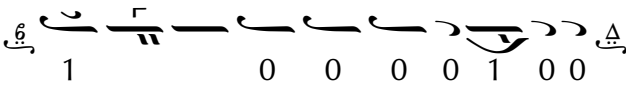
10	
010	
0010	
10010	
100010	
0010010	


*Plagal Second Mode - Heirmologic (Soft Chromatic)*

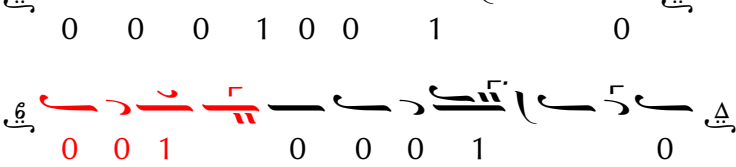
0100010 


  
0 1 0 0 0 0 1 0


  
0 1 0 0 0 1 0

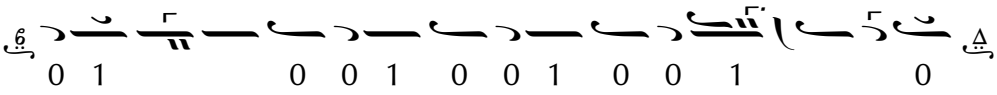
1000010 

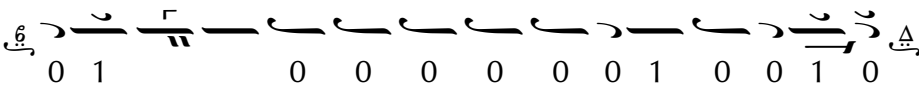
  
0 0 0 1 0 0 1 0

00100010 

  
0 0 1

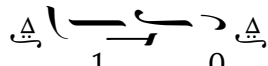
010000010010 

010010010010 

0100000010010 

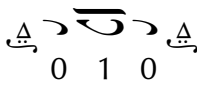
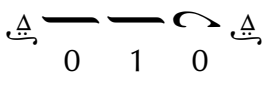
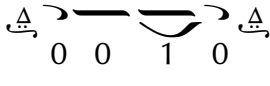
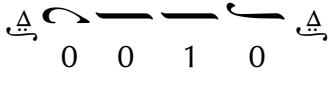
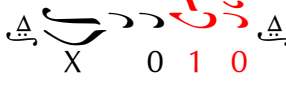

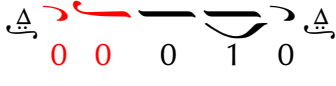
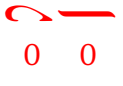
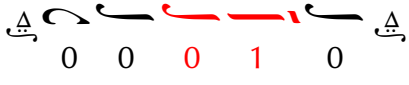
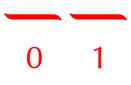
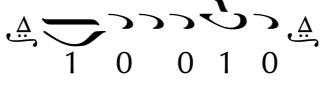
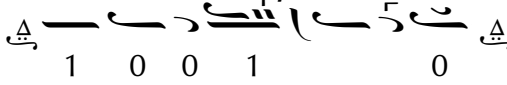
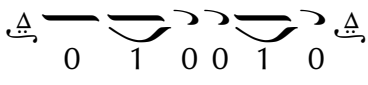
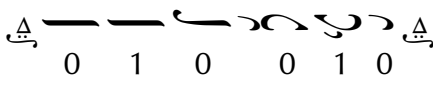
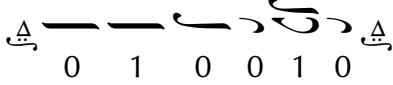
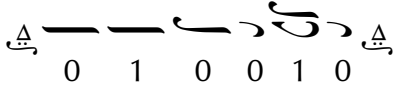
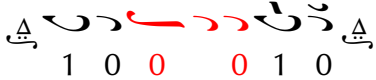

From Di

10 

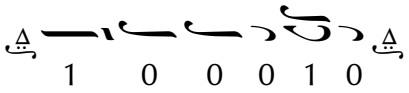
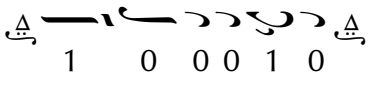
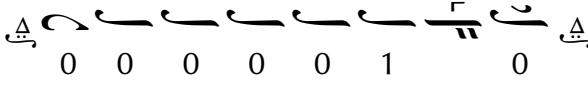


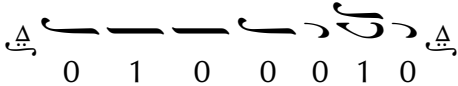
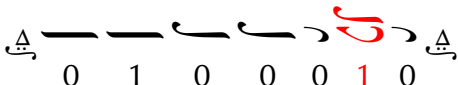

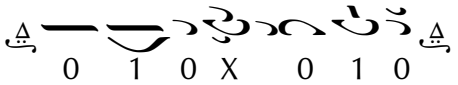
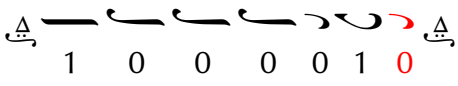

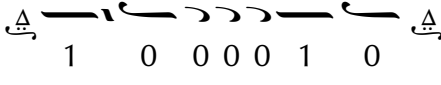
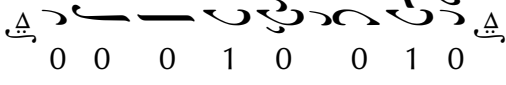
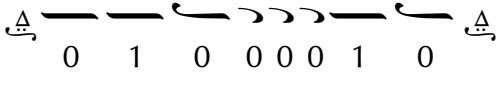
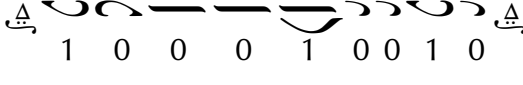
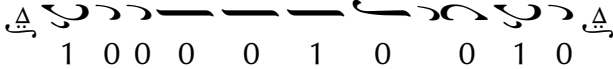
  
1 0

010 

*Plagal Second Mode - Heirmologic (Soft Chromatic)*

		
		
0010		
		
X010		
00010		
		
10010		
		
010010		
		
		
		
100010		

*Plagal Second Mode - Heirmologic (Soft Chromatic)*

		
		
0000010		
0010010		
0100010		
		
010X010		
1000010		
		
00010010		
		
100010010		
1000010010		

*Plagal Second Mode - Heirmologic (Soft Chromatic)*

01000100010

Accented on third to last syllable:

From Vou

100

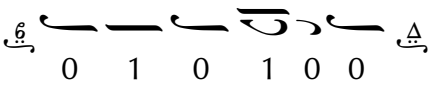
0100

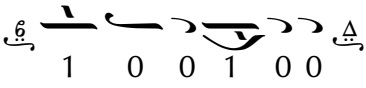
00100


10100

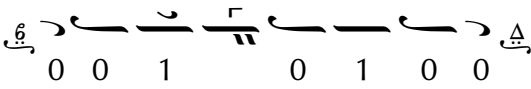


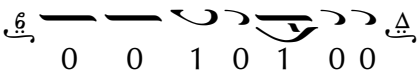
*Plagal Second Mode - Heirmologic (Soft Chromatic)*

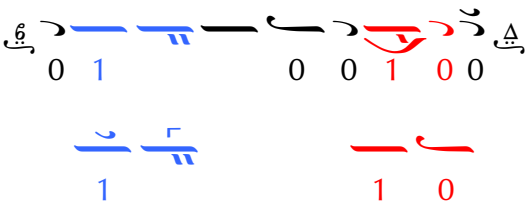
010100 


100100 

X00100 

0010100 

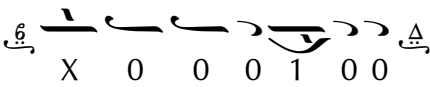


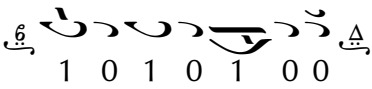
0100100 

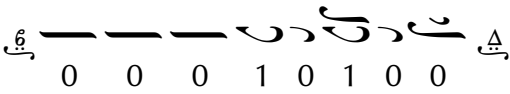




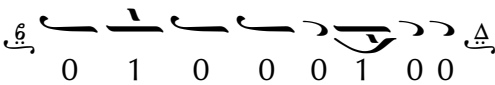


X000100 

1010100 

00010100 

01000100 



*Plagal Second Mode - Heirmologic (Soft Chromatic)*

10000100		1 0 0 0 0 1 0 0
01100100		0 1 1 0 0 1 0 0
100100100		1 0 0 1 0 0 1 0 0
0001000100		0 0 0 1 0 0 0 1 0 0
1000010100		1 0 0 0 0 1 0 1 0 0
01000000100		0 1 0 0 0 0 0 0 1 0 0
01000100100		0 1 0 0 0 1 0 0 1 0 0
01001000100		0 1 0 0 1 0 0 0 1 0 0

From Di

100		1 0 0
		1 0 0
		1 0 0
0100		0 1 0 0
00100		0 0 1 0 0
		0 0 1 0 0

*Plagal Second Mode - Heirmologic (Soft Chromatic)*

000100		
010100		
100100		
100110		
0100100		
1000100		

*Plagal Second Mode - Heirmologic (Soft Chromatic)*

1 0 0 0 1 0 0

1 0 0 0 1 0 0

01000100

0 1 0 0 0 1 0 0

0 1 0 0 0 1 0 0

01010100

0 1 0 1 0 1 0 0

010000100

0 1 0 0 0 0 1 0 0

010010100

0 1 0 0 1 0 1 0 0

101000100

1 0 1 0 0 0 1 0 0

0100000100

0 1 0 0 0 0 0 1 0 0

0100010100

0 1 0 0 0 1 0 1 0 0

0 1 0 0 0 1 0 1 0 0

0100100100

0 1 0 0 1 0 0 1 0 0


0101000100

0 1 0 1 0 0 0 1 0 0

100000X0100

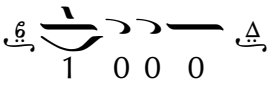
1 0 0 0 0 0 X 0 1 0 0


*Plagal Second Mode - Heirmologic (Soft Chromatic)*

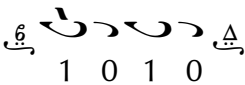
010001000100   $\Delta$

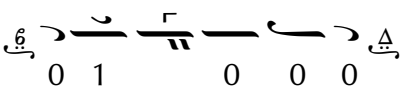
Accented on fourth to last syllable:

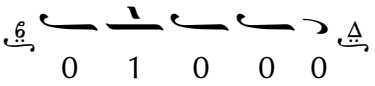
From Vou

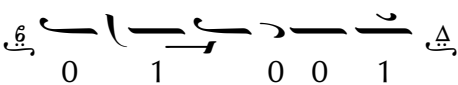
1000   $\Delta$

1001   $\Delta$

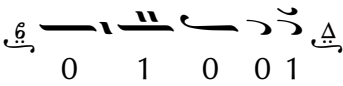
1010   $\Delta$

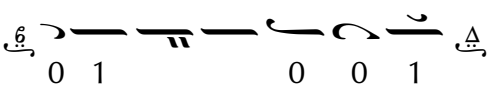
01000   $\Delta$

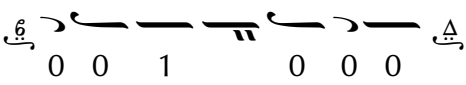
  $\Delta$


01001   $\Delta$

  $\Delta$

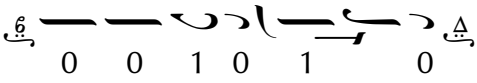
  $\Delta$

  $\Delta$

001000   $\Delta$

001001   $\Delta$

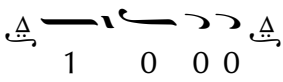
*Plagal Second Mode - Heirmologic (Soft Chromatic)*

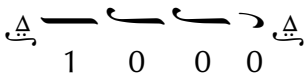
001010 

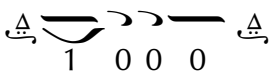
10X01001 

From Di


1000 





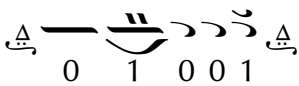


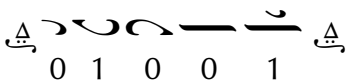
1001 

1010 

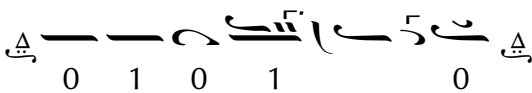
X010 



01001 





01010 

*Plagal Second Mode - Heirmologic (Soft Chromatic)*

101010	 1 0 1 0 1 0	 1 0
	 1 0 1 0 1 0	
0101000	 0 1 0 1 0 0 0	
0101001	 0 1 0 1 0 0 1	
0101010	 0 1 0 1 0 1 0	 1
010X010	 0 1 0 X 0 1 0	
10001001	 1 0 0 0 1 0 0 1	
0100001010	 0 1 0 0 0 0 1 0 1 0	
0101001001	 0 1 0 1 0 0 1 0 0 1	
1000101001	 1 0 0 0 1 0 1 0 0 1	

*Plagal Second Mode - Heirmologic (Soft Chromatic)*

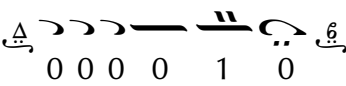
C) Final Cadences

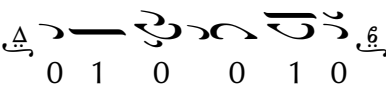
Accented on last syllable:

(Use a formula ending in 100 or 1001)

Accented on second to last syllable:

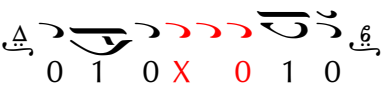
10010 

000010 

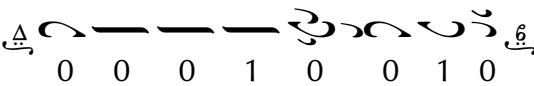
010010 

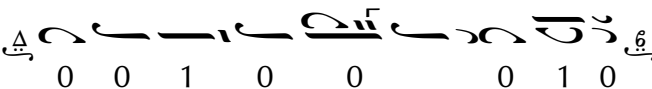
10X010 



010X010 



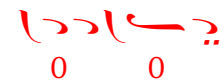
00010010 

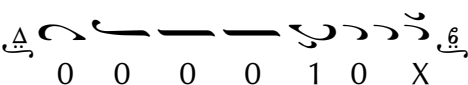
00100010 



Accented on third to last syllable:

100100 



000010X 





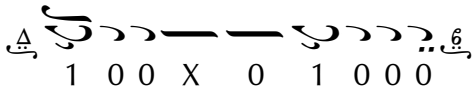
*Plagal Second Mode - Heirmologic (Soft Chromatic)*

0010X0X		
10X0100		
01000100		
100X0100		
10100100		
010000100		
1010010X0X		
01010010X0X		

Accented on fourth to last syllable:

10X010		
1001001		
010X010		

*Plagal Second Mode - Heirmologic (Soft Chromatic)*

10X01010	
10101010	
100X01000	

*Plagal Second Mode - Heirmologic (Soft Chromatic)*

**D) Formulae with Fthoras**

Accented on last syllable:

100001

1 0 0 0 0 1

Accented on second to last syllable:

100010

1 0 0 0 1 0

Accented on third to last syllable:

From Vou

10100

1 0 1 0 0

0100100

0 1 0 0 1 0 0

01000100

0 1 0 0 0 1 0 0

From Di

100000100

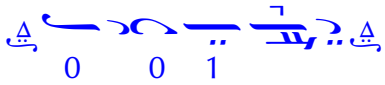
1 0 0 0 0 0 1 0 0

1000100100

1 0 0 0 1 0 0 1 0 0


**E) Endings for Theotokia\***

Accented on last syllable:

001 

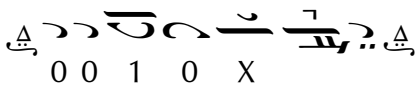
Accented on second to last syllable:


10 


00010 


Accented on third to last syllable:

100 

0010X 

10010X 

100010X 

100010X 

\* The formulae in blue in this section are from the Athonite oral tradition, as represented in the book *Παρακλητική, Μουσικὸν Ἐγκόλπιον, Πλάγιοι Ἦχοι*, Ἱεροθέου Ἱερομονάχου, ἐκδόσεις Ἱ.Μ. Φιλοθέου, Ἄγιον Ὄρος, 2004.

*Plagal Second Mode - Heirmologic (Soft Chromatic)*

Accented on fourth to last syllable:

1001

01001

01010