

BYZANTINE MUSIC FORMULAE

Grave Mode - Sticheraric

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* The Byzantine music formulae herein were extracted from sticheraric melodies found in the *Zoe Anastas74 imatarion* (14th edition, 2002) Volumes I, II, and III of *Mousike Kypsele* (1883 edition), the *Doxastarion* of Konstantinos Protopsaltis (1844 edition), and the two-volume *Athonias* (1906 edition) by Petros Philanthidis.

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

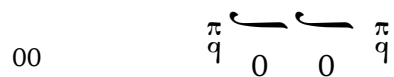
Medial Cadences on Pa

A) Accented on Last Syllable

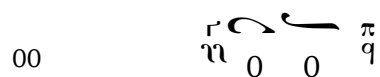
Notice that this mode has no medial cadences on Pa for phrases accented on the last syllable. In the event that a composer desires to have a cadence on Pa for a phrase accented on the last syllable, he may use a formula ending in the pattern "100".

Pa - Pa

This section is essentially empty, since such melodic movements in this mode are rare.



Ga - Pa



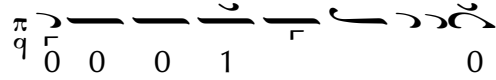
Di - Pa



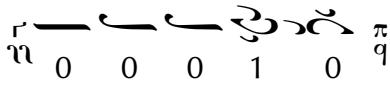
B) Accented on Second to Last Syllable

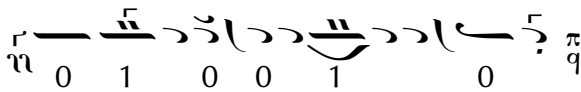
Pa - Pa

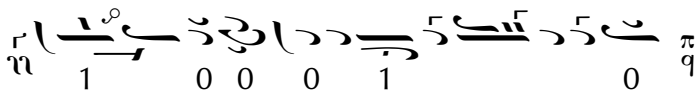
This section is almost empty, since such melodic movements in this mode are rare.

00010 

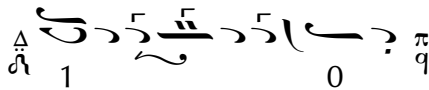
Ga - Pa


00010 

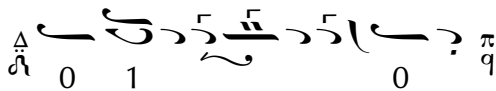
010010 

100010 

Di - Pa

10 

010 



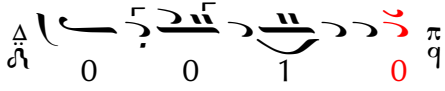


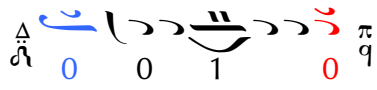







Grave Mode - Sticheraric

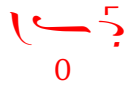
0010 $\overset{\Delta}{\mathfrak{A}}$ 


$\overset{\Delta}{\mathfrak{A}}$ 







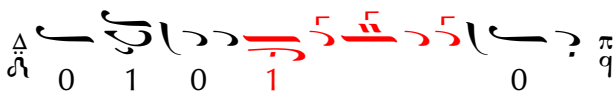


00010 $\overset{\Delta}{\mathfrak{A}}$ 







01010 $\overset{\Delta}{\mathfrak{A}}$ 



C) Accented on Third to Last Syllable

Pa - Pa

This section is empty, since such melodic movements in this mode are rare.

Ga - Pa

This section is also empty because melodies in this mode rarely move directly from Ga to Pa.

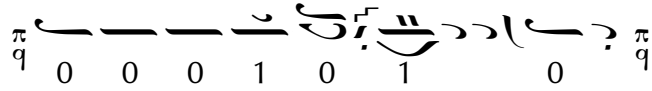
Di - Pa

100		
0100		
010X		
1100		
00100		

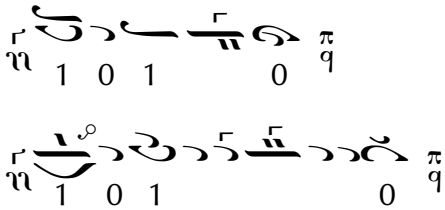
D) Accented on Fourth to Last Syllable

Pa - Pa

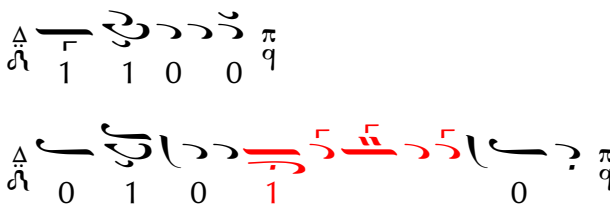
This section is almost empty, since such melodic movements in this mode are rare.

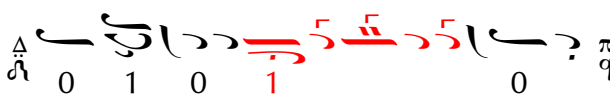
0001010 

Ga - Pa

1010 

Di - Pa

1100 

01010 



Medial Cadences on Ga

E) Accented on Last Syllable

Pa - Ga

01

0001

01001

Ga - Ga

000

X0X0X

1X0XX

101001

001X0X0X

Grave Mode - Sticheraric

0001X0X0X

101010X0X0X

Di - Ga

0

00

000

1001

001001

X01001


010001

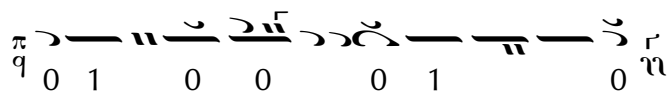
Grave Mode - Sticheraric


100X01		
0001001		
0101001		
X0X0X0X		
0100001		
01001001		
10001001		
10010001		
0001010X		

F) Accented on Second to Last Syllable

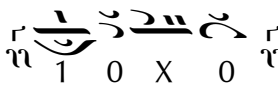
Pa - Ga

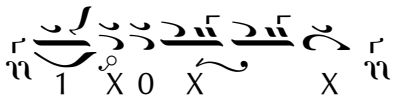
010 

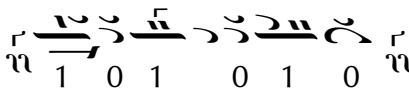
0100010 

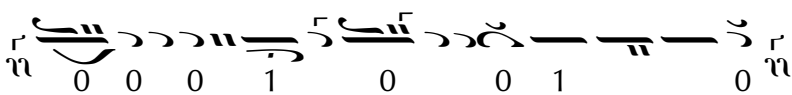
000100010 

Ga - Ga

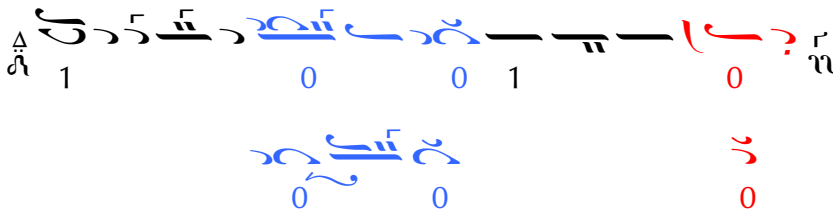
10X0 

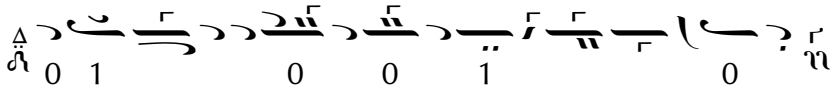
1X0XX 

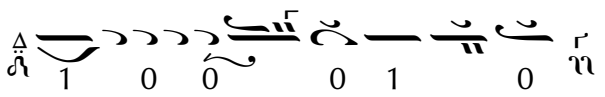
101010 


00010010 

Di - Ga

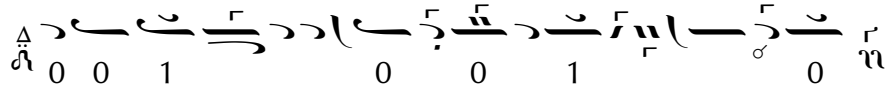
10010 

010010 

100010 

0010010 

Grave Mode - Sticheraric



 Δ 0 0 1 0 0 1 0 0



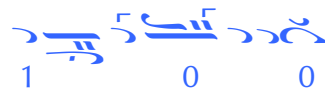
 Δ 0 0 1 0 0 1 0 0



 1 0 0 0



 1 0 0 0



 1 0 0 0



 0 0

0100010 Δ 0 1 0 0 0 1 0 0

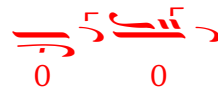


 0 0



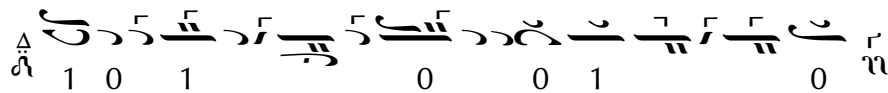
 Δ 0 1 0 0 0 1 0 0

1000010 Δ 1 0 0 0 0 0 1 0

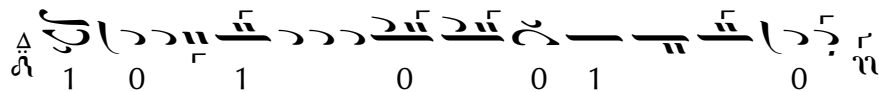


 0 0

1010010 Δ 1 0 1 0 0 1 0 1 0

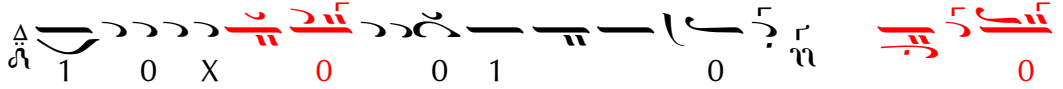


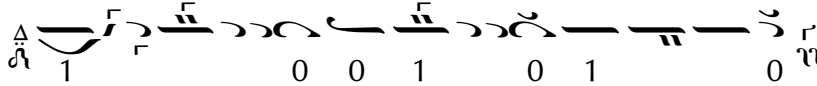
 Δ 1 0 1 0 0 1 0 0

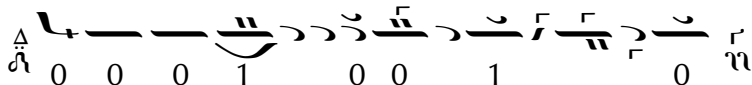


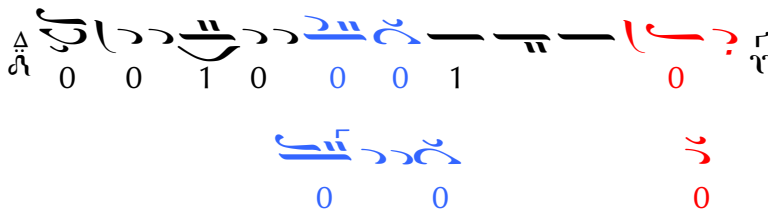
 Δ 1 0 1 0 0 1 0 0

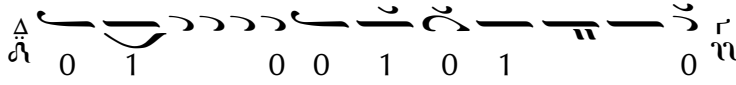
Grave Mode - Sticheraric

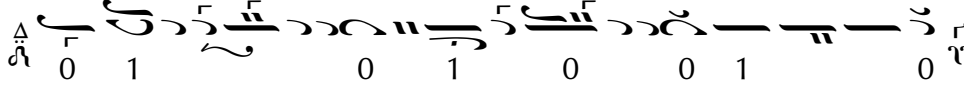
10X0010 

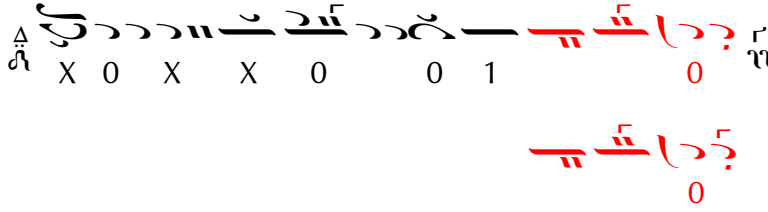
1001010 

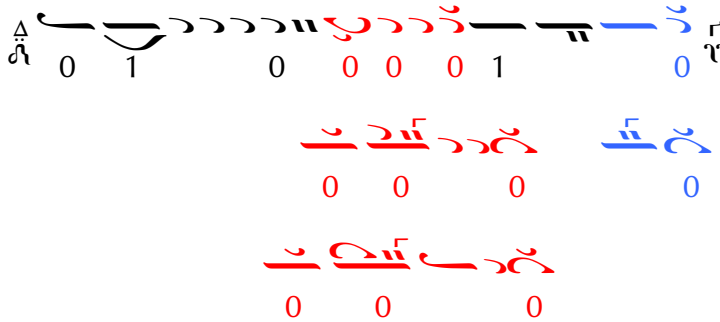
00010010 

00100010 

01001010 

01010010 

X0XX0010 

01000010 

Grave Mode - Sticheraric

010000010

Δ

 δ 0 1 0 0 0 0 0 1 0

 0 0 0 0 0

010001010

Δ

 δ 0 1 0 0 0 1 0 1 0

 0

101000010

Δ

 δ 1 0 1 0 0 0 0 1 0

 0 0 0 0 0

100000010

Δ

 δ 1 0 0 0 0 0 0 0 1 0

 0

0100000010

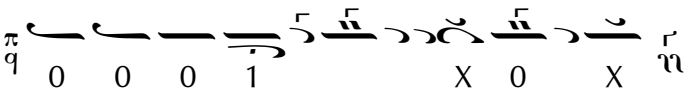
Δ

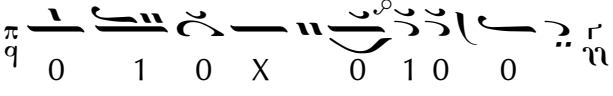
 δ 0 1 0 0 0 0 0 0 0 1 0

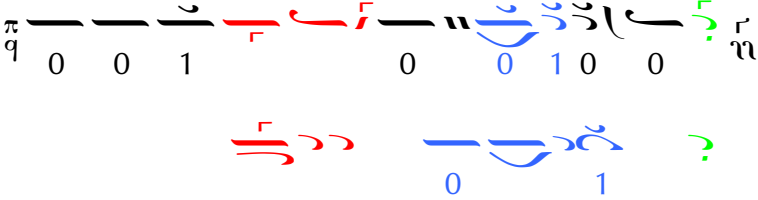
 0

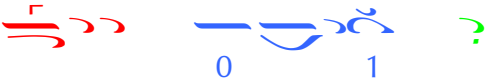
G) Accented on Third to Last Syllable

Pa - Ga


0001X0X 

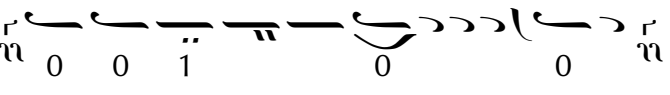
010X0100 

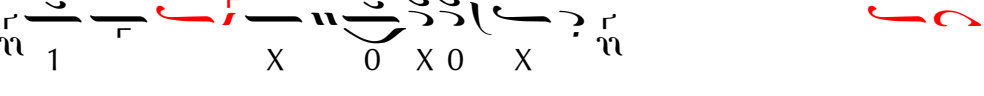
00100100 

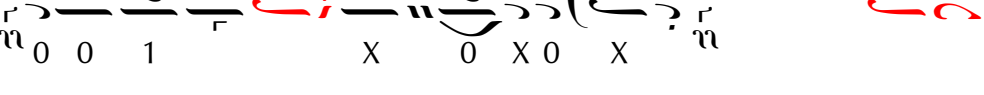


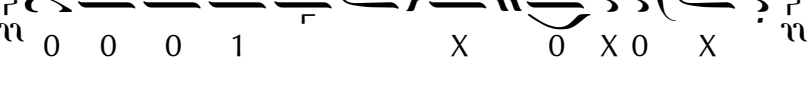
Ga - Ga

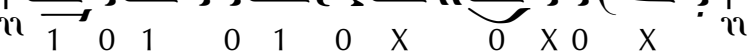
X0X0X 

00100 

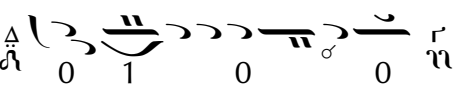
1X0X0X 

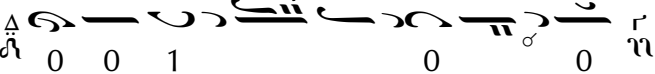
001X0X0X 

0001X0X0X 

101010X0X0X 

Di -Ga

0100 

00100 

Grave Mode - Sticheraric

	Δ		0	0	1	0	0	r			
	Δ		0	0	1	0	0	r			
10100	Δ		1	0	1	0	0	r			
	Δ		1	0	1	0	0	r			
00010X	Δ		0	0	0	1	0	X r			
100100	Δ		1			0	0	10	0		
	Δ		1	0	0	1	0	0	r		
	Δ		1	0	0	1	0	0	r		
			1	0	0	1	0				
			1			1	0				
0000100	Δ		0	0	0	0	1	0	0	r	
0100100	Δ		0	1			0	0	10	0	r
									1	0	

Grave Mode - Sticheraric

	Δ		
1000100	Δ		
	Δ		
0010100	Δ		
1010100	Δ		
X0X0X0X	Δ		
X010100	Δ		
0001010X	Δ		
00100100	Δ		
01000100	Δ		
	Δ		
10000100	Δ		

Grave Mode - Sticheraric

Δ
 δ 1 0 0 0 0 0 1 0 0 δ

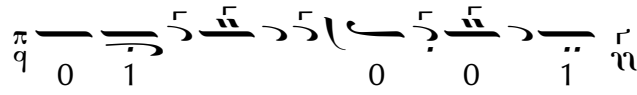
1 0

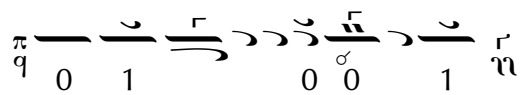
001000100

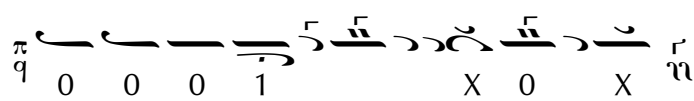
Δ
 δ 0 0 1 0 0 0 1 0 0 δ

H) Accented on Fourth to Last Syllable


Pa - Ga

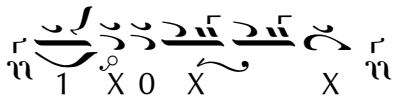
01001 

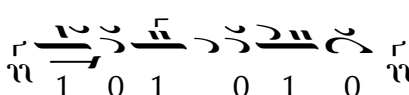


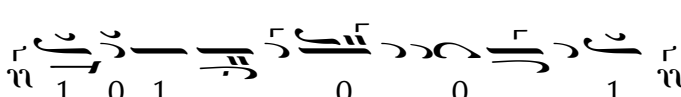
0001X0X 

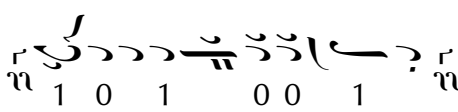
Ga - Ga

10X0 

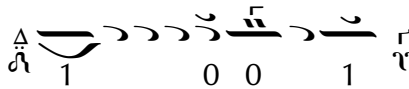
1X0XX 

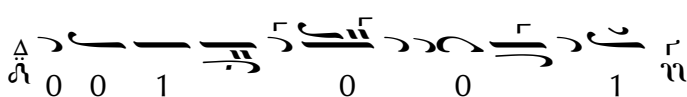
101010 

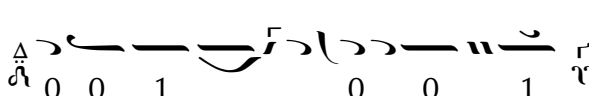
101001 

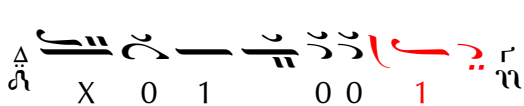


Di - Ga

1001 


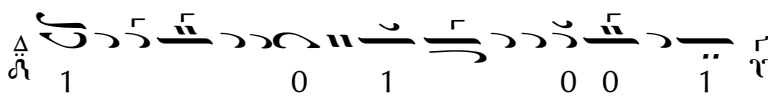
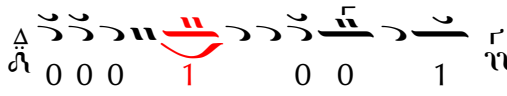
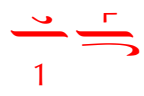
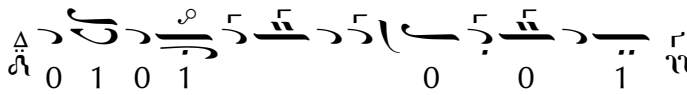
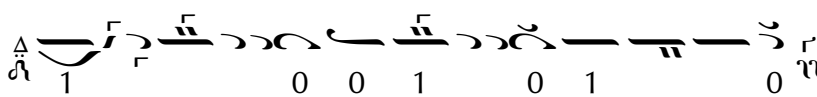
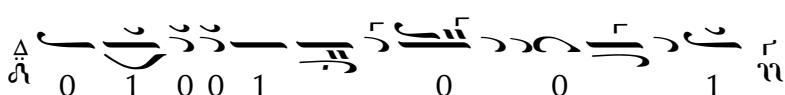

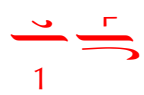
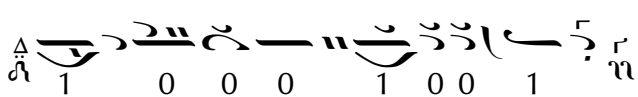
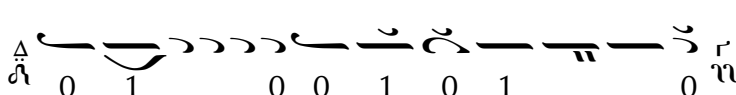
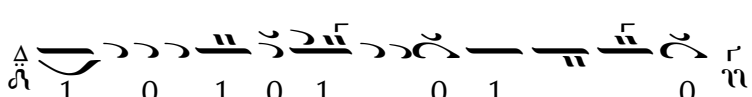
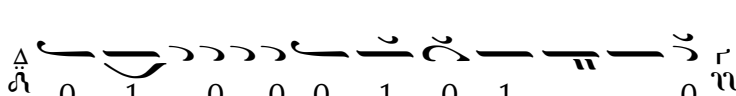
001001 



X01001 



Grave Mode - Sticheraric

		
101001		
0001001		
0101001		
1001010		
01001001		
10001001		
		
01001010		
10101010		
010001010		

Medial Cadences on Di

I) Accented on Last Syllable

Pa - Di

0	π q $\frac{\text{—}}{0}$ $\overset{\Delta}{\text{Di}}$
00	π q $\frac{\text{—}}{0}$ $\frac{\text{—}}{0}$ $\overset{\Delta}{\text{Di}}$
001	π q $\frac{\text{—}}{0}$ $\frac{\text{—}}{0}$ $\frac{\text{—}}{1}$ $\overset{\Delta}{\text{Di}}$
	π q $\frac{\text{—}}{0}$ $\frac{\text{—}}{0}$ $\frac{\text{—}}{1}$ $\overset{\Delta}{\text{Di}}$
1001	π q $\frac{\text{—}}{1}$ $\frac{\text{—}}{0}$ $\frac{\text{—}}{0}$ $\frac{\text{—}}{1}$ $\overset{\Delta}{\text{Di}}$
	π q $\frac{\text{—}}{1}$ $\frac{\text{—}}{0}$ $\frac{\text{—}}{0}$ $\frac{\text{—}}{1}$ $\overset{\Delta}{\text{Di}}$
	π q $\frac{\text{—}}{1}$ $\frac{\text{—}}{0}$ $\frac{\text{—}}{0}$ $\frac{\text{—}}{1}$ $\overset{\Delta}{\text{Di}}$
01001	π q $\frac{\text{—}}{0}$ $\frac{\text{—}}{1}$ $\frac{\text{—}}{0}$ $\frac{\text{—}}{0}$ $\frac{\text{—}}{1}$ $\overset{\Delta}{\text{Di}}$
00001	π q $\frac{\text{—}}{0}$ $\frac{\text{—}}{0}$ $\frac{\text{—}}{0}$ $\frac{\text{—}}{0}$ $\frac{\text{—}}{1}$ $\overset{\Delta}{\text{Di}}$
00101	π q $\frac{\text{—}}{0}$ $\frac{\text{—}}{0}$ $\frac{\text{—}}{1}$ $\frac{\text{—}}{0}$ $\frac{\text{—}}{1}$ $\overset{\Delta}{\text{Di}}$
001001	π q $\frac{\text{—}}{0}$ $\frac{\text{—}}{0}$ $\frac{\text{—}}{1}$ $\frac{\text{—}}{0}$ $\frac{\text{—}}{0}$ $\frac{\text{—}}{1}$ $\overset{\Delta}{\text{Di}}$
	π q $\frac{\text{—}}{0}$ $\frac{\text{—}}{0}$ $\frac{\text{—}}{1}$ $\frac{\text{—}}{0}$ $\frac{\text{—}}{0}$ $\frac{\text{—}}{1}$ $\overset{\Delta}{\text{Di}}$

$\frac{\text{—}}{0}$

Grave Mode - Sticheraric

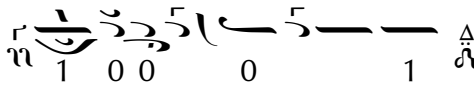
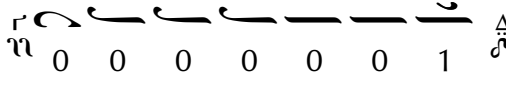

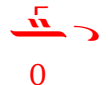
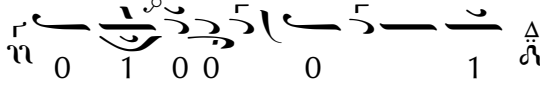
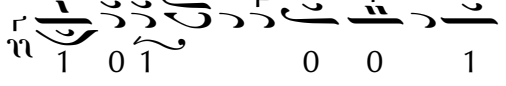
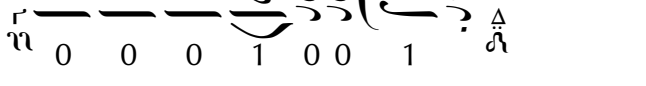


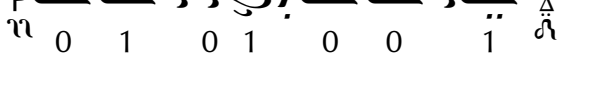
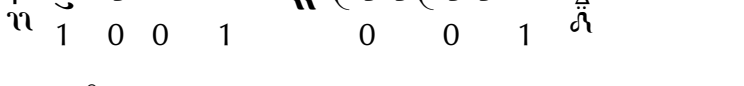

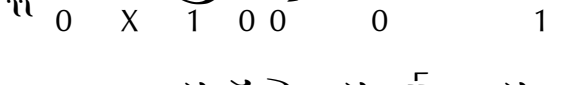
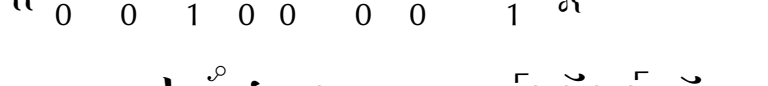

Ga - Di

These formulae are used also as initial formulae.


0	
0000	
01	
001	
0001	
0X01	
1001	
01001	

1

Grave Mode - Sticheraric

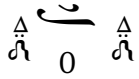
10001		
000001		
010001		
101001		
0001001		
0010001		
0101001		
1001001		
1010001		
0X10001		
00100001		
00101001		
10010001		

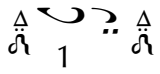
Grave Mode - Sticheraric

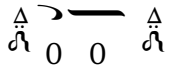
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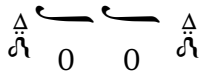
Di - Di

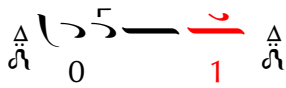
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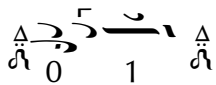


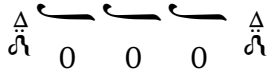
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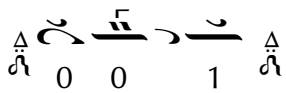
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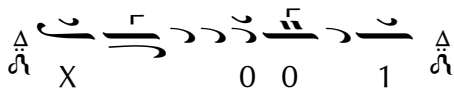


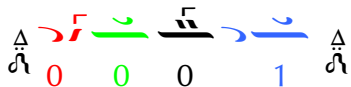
01 



000 


001 

X001 


















Grave Mode - Sticheraric

 0  1

 1 $\frac{x}{q}$

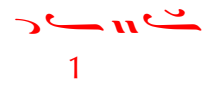
0000 Δ  0  0  0  0 Δ






1001 Δ  1  0  0  1 Δ  1

Δ  1  0  0  1 Δ

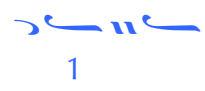
 1  1

 1  1






 1

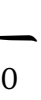

00001 Δ  0  0  0  0  1 Δ

 0  1

 1

 1 $\frac{x}{q}$

Δ  0  0  0  0  1 Δ

01001 Δ  0  1  0  0  1 Δ

Grave Mode - Sticheraric

	 Δ 0 1 0 0 1 Δ	 1
10001	 Δ 1 0 0 0 1 Δ	 1
010001	 Δ 0 1 0 0 0 1 Δ	
0X0001	 Δ 0 X 0 0 0 1 Δ	
	 X	 1
	 X	 1
100001	 Δ 1 0 0 0 0 1 Δ	
000101	 Δ 0 0 0 1 0 1 Δ	
0001001	 Δ 0 0 0 1 0 0 1 Δ	
0010001	 Δ 0 0 1 0 0 0 1 Δ	
	 Δ 0 0 1 0 0 0 1 Δ	
	 1	
	 1	
	 1	 1

Grave Mode - Sticheraric

0X00001

1000101

0010001

0101001

1100001001

J) Accented on Second to Last Syllable


Pa - Di

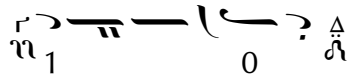
10	π_q		Δ	
		1 0		
010	π_q		Δ	
		0 1 0		
	π_q		Δ	
		0 1 0		
	π_q		Δ	
		0 1 0		
0010	π_q		Δ	
		0 0 1 0		
	π_q		Δ	
		0 0 1 0		
	π_q		Δ	
		0 0 1 0		
	π_q		Δ	
		0 0 1 0		
	π_q		Δ	
		0 0 1 0		
	π_q		Δ	
		0 0 1 0		
	π_q		Δ	
		0 0 1 0		
	π_q		Δ	
		0 0 1 0		
	π_q		Δ	
		0 0 1 0		
01010	π_q		Δ	
		0 0 0 1 0		
	π_q		Δ	
		0 0 0 1 0		
	π_q		Δ	
		0 0 0 1 0		
	π_q		Δ	
		0 0 0 1 0		
	π_q		Δ	
		0 0 0 1 0		
	π_q		Δ	
		0 0 0 1 0		
00X010	π_q		Δ	
		0 0 X 0 1 0		
	π_q		Δ	
		0 0 X 0 1 0		
	π_q		Δ	
		0 0 X 0 1 0		
	π_q		Δ	
		0 0 X 0 1 0		
	π_q		Δ	
		0 0 X 0 1 0		
	π_q		Δ	
		0 0 X 0 1 0		
001010	π_q		Δ	
		0 0 1 0 1 0		
	π_q		Δ	
		0 0 1 0 1 0		
	π_q		Δ	
		0 0 1 0 1 0		
	π_q		Δ	
		0 0 1 0 1 0		
	π_q		Δ	
		0 0 1 0 1 0		
	π_q		Δ	
		0 0 1 0 1 0		
	π_q		Δ	
		0 0 1 0 1 0		
0010010	π_q		Δ	
		0 0 1 0 0 1 0		
	π_q		Δ	
		0 0 1 0 0 1 0		
	π_q		Δ	
		0 0 1 0 0 1 0		
	π_q		Δ	
		0 0 1 0 0 1 0		
	π_q		Δ	
		0 0 1 0 0 1 0		
	π_q		Δ	
		0 0 1 0 0 1 0		
	π_q		Δ	
		0 0 1 0 0 1 0		
1010010	π_q		Δ	
		1 0 1 0 0 1 0		
	π_q		Δ	
		1 0 1 0 0 1 0		
	π_q		Δ	
		1 0 1 0 0 1 0		
	π_q		Δ	
		1 0 1 0 0 1 0		
	π_q		Δ	
		1 0 1 0 0 1 0		
	π_q		Δ	
		1 0 1 0 0 1 0		
	π_q		Δ	
		1 0 1 0 0 1 0		
	π_q		Δ	
		1 0 1 0 0 1 0		

Grave Mode - Sticheraric

Ga - Di

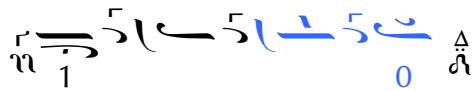
These formulae are used also as initial formulae.

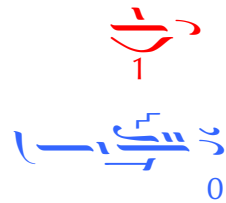
10 

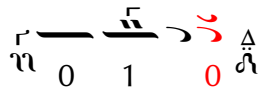


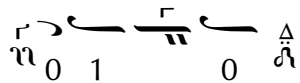


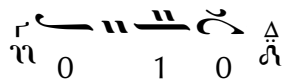


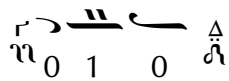


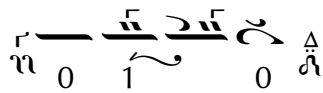


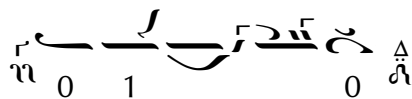
010 

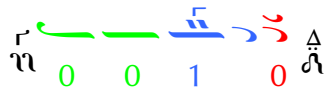


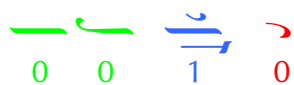








0010 



Grave Mode - Sticheraric

0 0 1 0

0 0 1 0

1 0

0 1 0

0 1 0

1010

1 0 1 0

00010

0 0 0 1 0

0 0 0 1 0

0 0 0

01010

0 1 0 1 0

0 1 0 1 0

10010

1 0 0 1 0

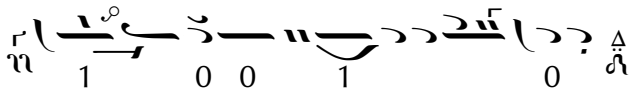
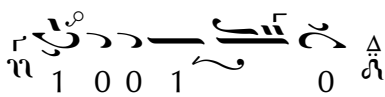
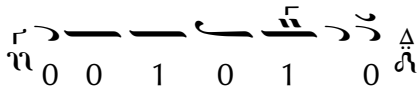
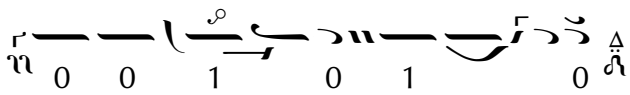
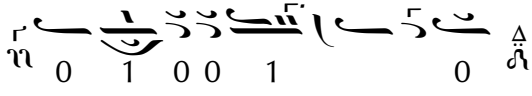
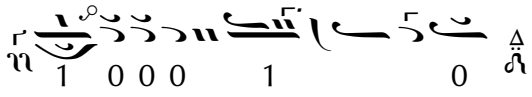
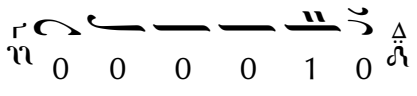
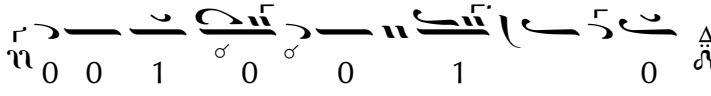
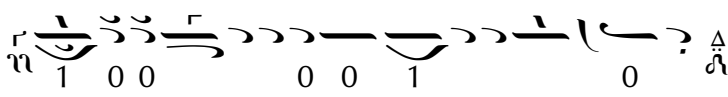
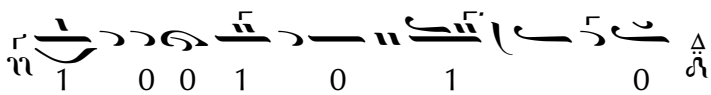
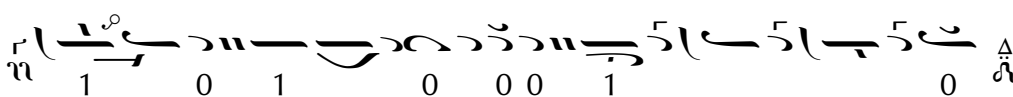
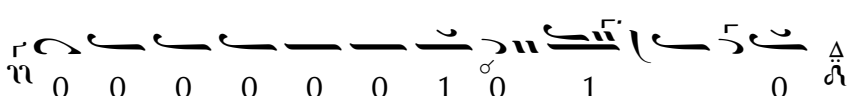
1 0 0 1 0

1 0 0 1 0

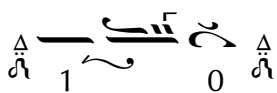
1 0 0 1 0

1 0 0

Grave Mode - Sticheraric

	
	
001010	
	
010010	
100010	
000010	
0010010	
1000010	
1001010	
10100010	
000001010	

Di - Di

10	
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Grave Mode - Sticheraric

Ⲁ ⲛ̅ⲓ ⲛ̅ⲓ Ⲁ
ⲁ 1 0 ⲁ

Ⲁ ⲛ̅ⲓ ⲛ̅ⲓ Ⲁ
ⲁ 1 0 ⲁ

Ⲁ ⲛ̅ⲓ ⲛ̅ⲓ Ⲁ
ⲁ 1 0 ⲁ

Ⲁ ⲛ̅ⲓ ⲛ̅ⲓ ⲛ̅ⲓ ⲛ̅ⲓ Ⲁ
ⲁ 1 0 ⲁ

Ⲁ ⲛ̅ⲓ ⲛ̅ⲓ ⲛ̅ⲓ ⲛ̅ⲓ Ⲁ
ⲁ 1 0 ⲁ

Ⲁ ⲛ̅ⲓ ⲛ̅ⲓ ⲛ̅ⲓ ⲛ̅ⲓ ⲛ̅ⲓ Ⲁ
ⲁ 1 0 ⲁ

010

Ⲁ ⲛ̅ⲓ ⲛ̅ⲓ ⲛ̅ⲓ Ⲁ
ⲁ 0 1 0 ⲁ

ⲛ̅ⲓ
0

Ⲁ ⲛ̅ⲓ ⲛ̅ⲓ ⲛ̅ⲓ Ⲁ
ⲁ 0 1 0 ⲁ

Ⲁ ⲛ̅ⲓ ⲛ̅ⲓ ⲛ̅ⲓ ⲛ̅ⲓ Ⲁ
ⲁ 0 1 0 ⲁ

Ⲁ ⲛ̅ⲓ ⲛ̅ⲓ ⲛ̅ⲓ ⲛ̅ⲓ ⲛ̅ⲓ Ⲁ
ⲁ 0 1 0 ⲁ

Ⲁ ⲛ̅ⲓ ⲛ̅ⲓ ⲛ̅ⲓ ⲛ̅ⲓ Ⲁ
ⲁ 0 1 0 ⲁ

Ⲁ ⲛ̅ⲓ ⲛ̅ⲓ ⲛ̅ⲓ ⲛ̅ⲓ ⲛ̅ⲓ Ⲁ
ⲁ 0 1 0 ⲁ

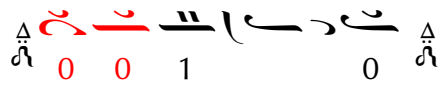
Ⲁ ⲛ̅ⲓ ⲛ̅ⲓ ⲛ̅ⲓ ⲛ̅ⲓ ⲛ̅ⲓ ⲛ̅ⲓ Ⲁ
ⲁ 0 1 0 ⲁ

0010

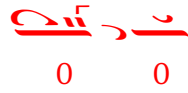
Ⲁ ⲛ̅ⲓ ⲛ̅ⲓ ⲛ̅ⲓ ⲛ̅ⲓ Ⲁ
ⲁ 0 0 1 0 ⲁ

ⲛ̅ⲓ
0 0

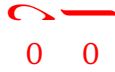
Grave Mode - Sticheraric



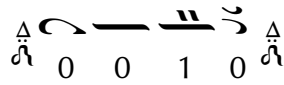
 0 0 1 0



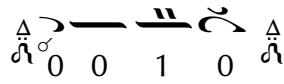
 0 0



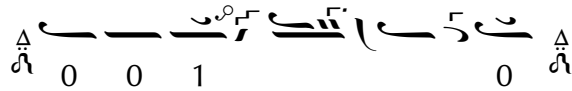
 0 0



 0 0 1 0



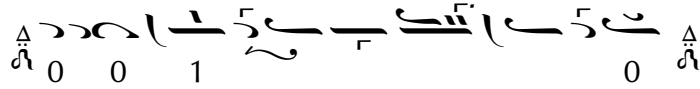
 0 0 1 0



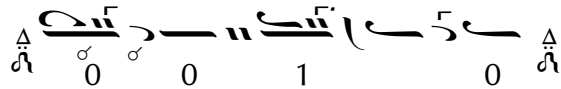
 0 0 1 0



 0 0 1 0

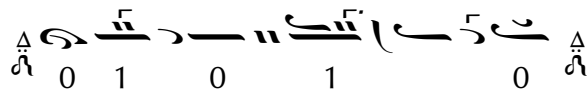


 0 0 1 0

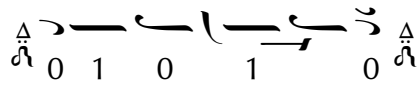


 0 0 1 0

01010

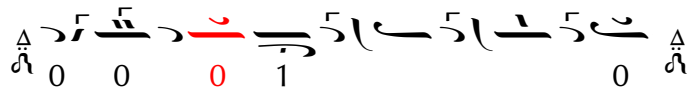


 0 1 0 1 0



 0 1 0 1 0

00010



 0 0 0 1 0



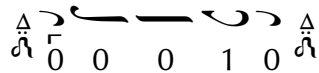
 0



 0 0 0 1 0



 0




 0 0 0 1 0


Grave Mode - Sticheraric

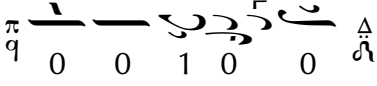
10010		
000010		
010010		
100010		
0010010		
0100010		

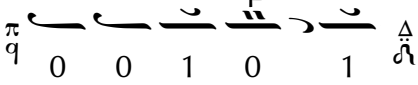
K) Accented on Third to Last Syllable

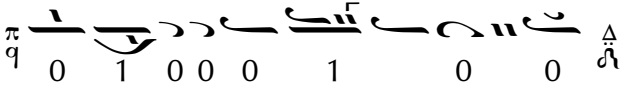
Pa - Di

0100 



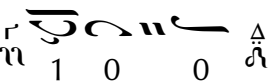
00100 

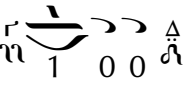
00101 


01000100 

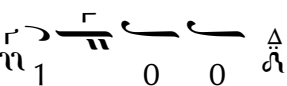
Ga - Di

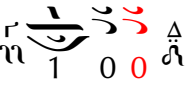
These formulae are used also as initial formulae.


100 

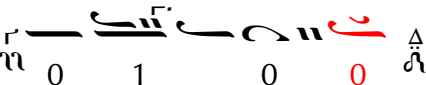











0100 









Grave Mode - Sticheraric

0X01	
00100	
X0100	
10100	
000100	
0X010X	
010100	
100100	

Grave Mode - Sticheraric

0100100	
10000100	
10X00010X	

Di - Di

100		
0100		

Grave Mode - Sticheraric

$\overset{\Delta}{\text{A}}$
 $\underset{\text{A}}{\text{A}}$
 0 1 0 0

$\overset{\Delta}{\text{A}}$
 $\underset{\text{A}}{\text{A}}$
 0 1 0 0

$\overset{\Delta}{\text{A}}$
 $\underset{\text{A}}{\text{A}}$
 0 1 0 0

0

 0

0

 0

010X

$\overset{\Delta}{\text{A}}$
 $\underset{\text{A}}{\text{A}}$
 0 1 0 X

$\overset{\Delta}{\text{A}}$
 $\underset{\text{A}}{\text{A}}$
 0 1 0 X

00100

$\overset{\Delta}{\text{A}}$
 $\underset{\text{A}}{\text{A}}$
 0 0 1 0 0

$\overset{\Delta}{\text{A}}$
 $\underset{\text{A}}{\text{A}}$
 0 0 1 0 0

$\overset{\Delta}{\text{A}}$
 $\underset{\text{A}}{\text{A}}$
 0 0 1 0 0

0

 0

0

 0

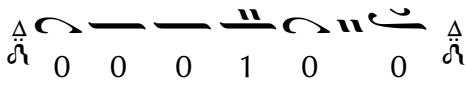
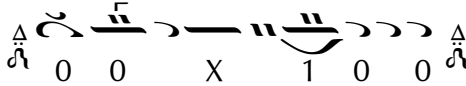
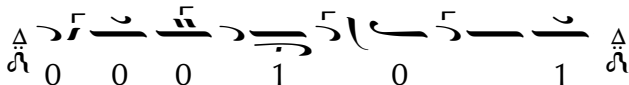

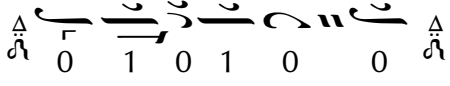

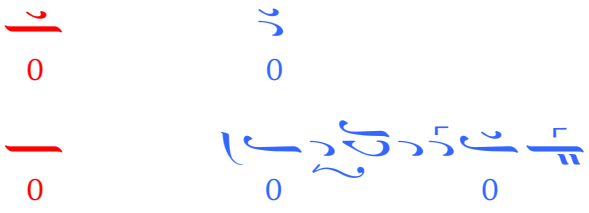
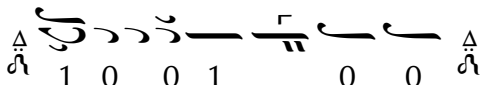
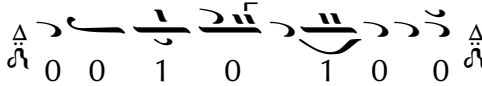
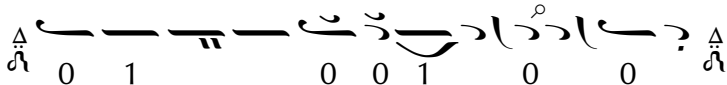
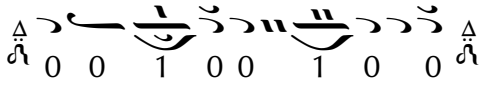
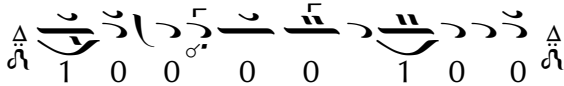
000100

$\overset{\Delta}{\text{A}}$
 $\underset{\text{A}}{\text{A}}$
 0 0 0 1 0 0

$\overset{\Delta}{\text{A}}$
 $\underset{\text{A}}{\text{A}}$
 0 0 0 1 0 0

0

Grave Mode - Sticheraric

	 0 0 0 1 0 0
00X100	 0 0 X 1 0 0
000101	 0 0 0 1 0 1
010100	 0 1 0 1 0 0
	 0 1 0 1 0 0
	 0 1 0 1 0 0
	 0 0 0 0
100100	 1 0 0 1 0 0
0010100	 0 0 1 0 1 0 0
0100100	 0 1 0 0 1 0 0
00100100	 0 0 1 0 0 1 0 0
10000100	 1 0 0 0 0 1 0 0

L) Accented on Fourth to Last Syllable

Pa - Di

1001	π_q	
		1 0 0 1 $\overset{\Delta}{\delta}$
	π_q	
		1 0 0 1 $\overset{\Delta}{\delta}$
	π_q	
		1 0 0 1 $\overset{\Delta}{\delta}$
01001	π_q	
		0 1 0 0 1 $\overset{\Delta}{\delta}$
01010	π_q	
		0 0 0 1 0 $\overset{\Delta}{\delta}$
001001	π_q	
		0 0 1 0 0 1 $\overset{\Delta}{\delta}$
	π_q	
		0 0 1 0 0 1 $\overset{\Delta}{\delta}$
00X010	π_q	
		0 0 X 0 1 0 $\overset{\Delta}{\delta}$
001010	π_q	
		0 0 1 0 1 0 $\overset{\Delta}{\delta}$

Ga - Di

These formulae are used also as initial formulae.

1001	π_q	
		1 0 0 1 $\overset{\Delta}{\delta}$
1010	π_q	
		1 0 1 0 $\overset{\Delta}{\delta}$
01001	π_q	
		0 1 0 0 1 $\overset{\Delta}{\delta}$

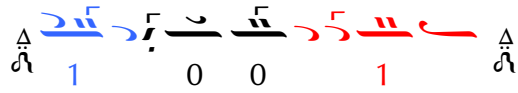
Grave Mode - Sticheraric

01010	
101001	
001010	
0001001	
0101001	
1001001	
1001010	
00101001	
0X0101001	
000001010	

Di - Di

1001		
------	--	--

Grave Mode - Sticheraric



 1 0 0 1



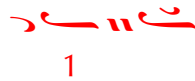
 1



 1



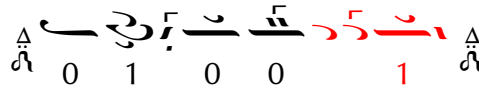
 1



 1

01001
 

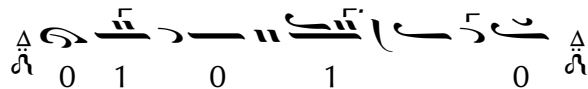
 0 1 0 0 1



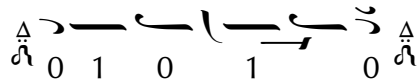
 0 1 0 0 1



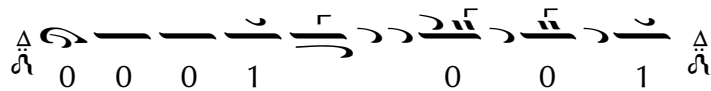
 1

01010
 

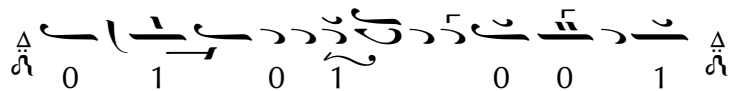
 0 1 0 1 0



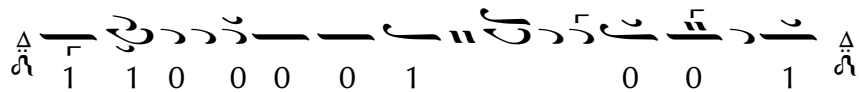
 0 1 0 1 0

0001001
 

 0 0 0 1 0 0 1

0101001
 

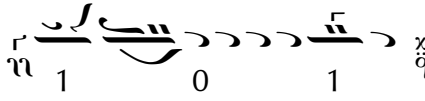
 0 1 0 1 0 0 1

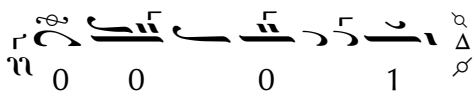
1100001001
 

 1 1 0 0 0 0 1 0 0 1

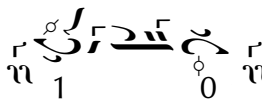
M) Fthores


Accented on last syllable:

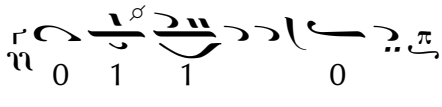
101 

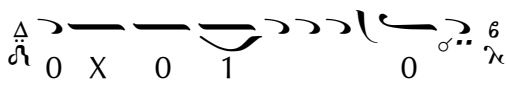
0001 

Accented on second to last syllable:

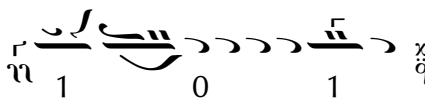
10 

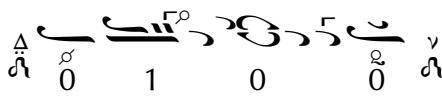
010 

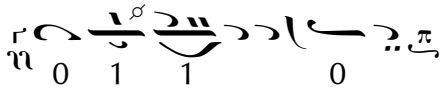
0110 

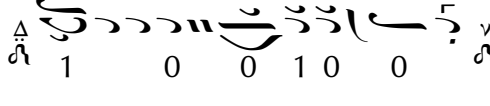
0X010 


Accented on third to last syllable:

101 

0100 

0110 

100100 

1000100 

Grave Mode - Sticheraric

Accented on fourth to last syllable:

0X010 $\overset{\Delta}{\text{A}}$ $\overset{6}{\lambda}$

0001010 $\overset{\Delta}{\text{A}}$ π

0 1

N) Old (slow) Sticheraric Formulae

Interestingly, grave mode has only a few old sticheraric formulae, whereas all other modes (except for third mode) have dozens.

Accented on last syllable:

0010001 $\overset{\nu}{\text{A}}$ ν

Accented on second to last syllable:

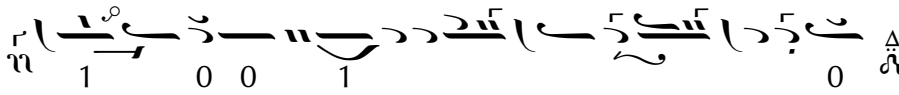
10 $\overset{\Delta}{\text{A}}$ ν

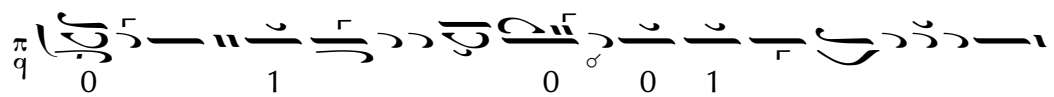
10 $\overset{\Delta}{\text{A}}$ π


010 $\overset{\nu}{\text{A}}$ ν

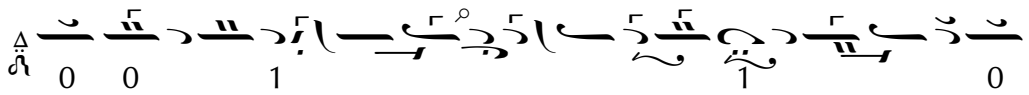
00010 $\overset{\pi}{\text{A}}$ π

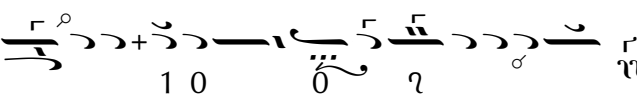
Grave Mode - Sticheraric


10010 

10010 

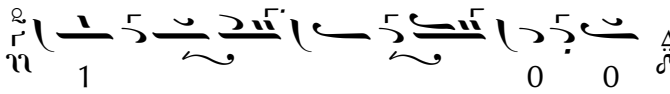


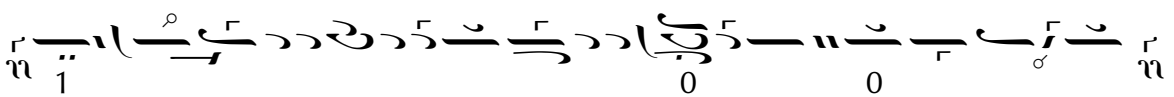
001100 

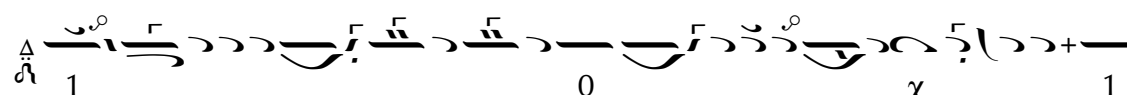


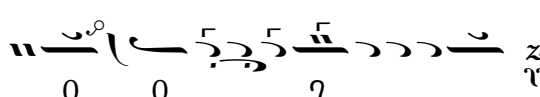
100010 

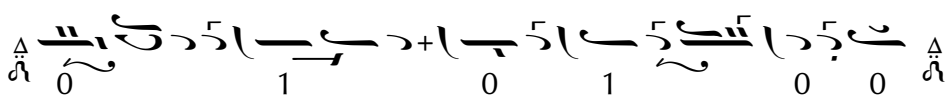
Accented on third to last syllable:

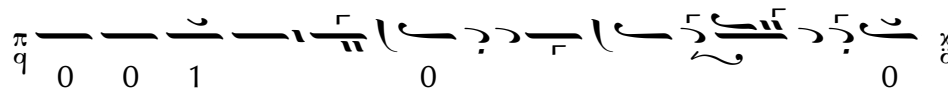
100 

100 

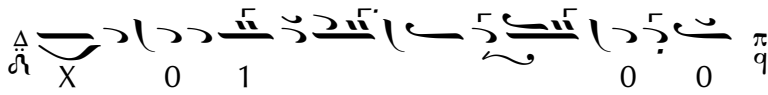
100 

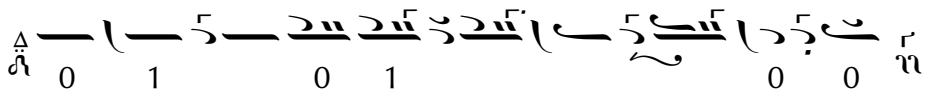


0100 

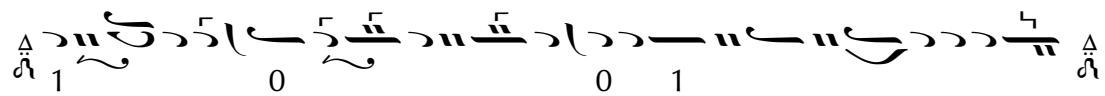
00100 

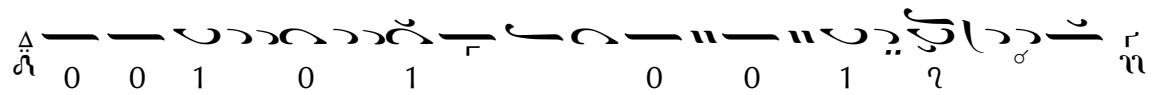
Grave Mode - Sticheraric


X0100 

010100 

Accented on fourth to last syllable:

1001 

00101001 

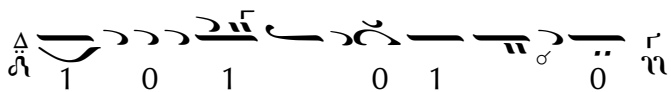
000001 

O) Final Cadences:

Accented on last syllable:

(Use formulae below ending with 100 or 1001)

Accented on second to last syllable:

101010 

Grave Mode - Sticheraric

0X00010

10001010

X0XX0010

Accented on third to last syllable:

100

01100

000100

Grave Mode - Sticheraric

100100

1 0 0 1 0 0

(orthographically incorrect but frequent in the *Zoe Anastasimatarion*)

100100

1 0 0 1 0 0

1000100

1 0 0 0 1 0 0

1 0 0 0 1 0 0

0101010X

0 1 0 1 0 1 0 X

Accented on fourth to last syllable:

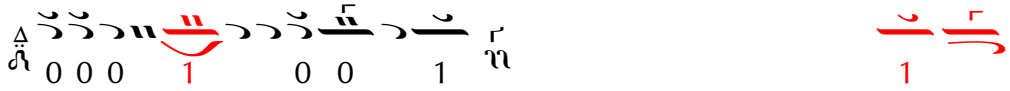
001001

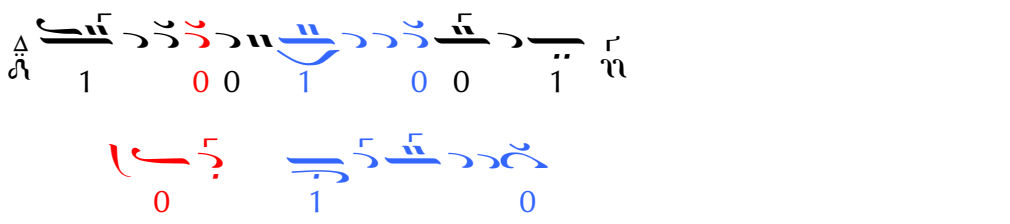
0 0 1 0 0 1

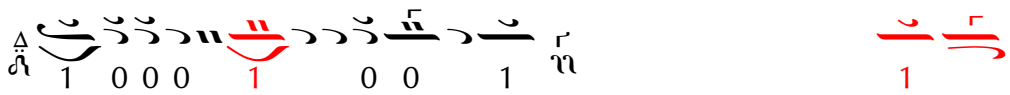
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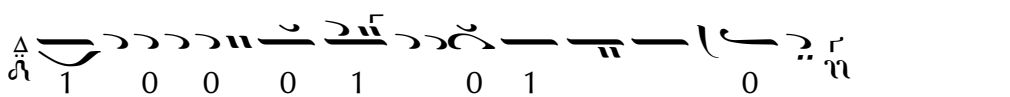
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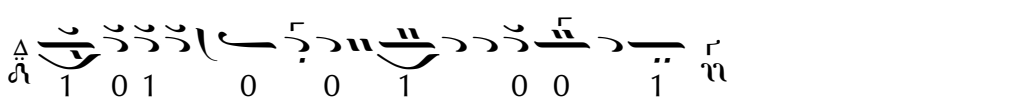
Grave Mode - Sticheraric

0001001 


1001001 


10001001 

10001010 

101001001 

P) Final Cadences for Theotokia

100010X 

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