# An introduction to phonological representations

EGG 2017, Olomouc

The Dialect of Grado (Walker (2005))

(Metaphonic alternations:  $e, o \rightarrow i, u$ ; No metaphony for  $\epsilon, c$ ) a. [ATR]/e/o/

- - Class I/II adjectives and nouns: i.

		Singular	Plural		
	Msc.	'vero	'viri	'true '	
	Msc.	'negro	'nigri	'negro'	
	Msc.	tempo	'timpi	'time	
	Msc.	roso	rusi	'red'	
	Msc.	'sordo	'surdi	'deaf '	
	Msc.	'tondo	'tundi	'round'	
ii.	Class III A	djectives and l	Nouns:		
		Singular	Plural		
	Masc.	fjor	fjuri	'flower'	
	Fm.	a'mor	a'muri	'love'	
iii.	Metaphon	ic alternations	in the presen	t singular of v	verbs:
	-	meto	kre-o	'romp-o	1 <sup>st</sup>
		'mit-i	'kri-i	'rump-i	2 <sup>nd</sup>
		'met-e	kre-e	'rump-e	3 <sup>rd</sup>
		'put'	'believe'	'break'	
-	-	-			

a. /e/ raised to [i]

	métt-o	'I put'	mítt-i		'you put'
	kréd-o	'I believe'	kríd-i		'you believe'
	kwést-o	'this (NEUT)'	kwíst-u		'this (MASC.SG)'
	kwést-e	'these (FEM.PL)'	kwíst-i		'these (MASC.PL)'
	pés-a	'heavy (FEM.SG)'	pís-u		'heavy (MASC.SG)'
	més-e	'month (MASC.SG)	mís-i		'month (MASC.PL)'
	métt-a=ča=la	'put it (FEM.SG)	mítt-u=č	u=lu	'put it (MASC.SG)
		there'			there'
	métt-e=če=le	'put it (FEM.PL)	mítt-i=či	i=li	'put it (MASC.PL)
		there'			there'
b.	/o/ raised to [	u]			
	fjór-e	'flower	fjúr-i	'flow	ver (MASC.PL)'
		(MASC.SG)'			
	spós-a	'wife (FEM.SG)'	spús-u	'hus	band (MASC.SG)'
	póč-e	'flea (MASC.SG)'	púč-i	'flea	(MASC.PL)'
	róšš-a	'red (FEM.SG)'	rúšš-u	'red	(MASC.SG)'
	skjifós-a	'fussy (FEM.SG)'	skjifús-u	'fuss	y (MASC.SG)'
	lóng-a	'long (FEM.SG)'	lúng-u	'long	g (MASC.SG)'

2) Metaphony:





C	/c/ raised to lel		
C.			

C.	/e/ raised to	o [e]		
	modést-a	'modest (FEM.SG)'	modést-u	'modest (MASC.SG)'
	sgwéz-a	'sinister (FEM.SG)'	sgwéz-u	'sinister (MASC.SG)'
	ššwért-a	'eccentric (FEM.SG)'	ššwért-u	'eccentric (MASC.SG)'
	pétten-e	'comb (MASC.SG)'	péttin-i	'comb (MASC.PL)'
	prédok-o	'I preach'	prédik-i	'you preach'
	pérsak-a	'peach tree (FEM.SG)'	pérsuk-u	'peach (MASC.SG)'
			pérsik-i	'peach (MASC.PL)
d.	/o/ raised to	0 [0]		
	spr <i>ót-a</i>	'pedantic (FEM.SG)'	sprót-u	'pedantic
				(MASC.SG)'
	тэ́r-е	'he dies'	mór-i	'you die'
	mórt-a	'dead (FEM.SG)'	mórt-u	'dead (MASC.SG)'
	móš-a	'depressed (FEM.SG)	móš-u	'depressed
				(MASC.SG)'
	birikókan-a	'apricot tree	birikókur	<i>i-u</i> 'apricot
		(FEM.SG)'		(MASC.SG)'

	i	e	3	a	Э	0	u
high	+	-	-	-	-		+
low	-	-	-	+	-	_	_
back	_	-	-	+	+	+	+
round	-	-	-	-	+	+	+
ATR	+	+		-	-	+	+

- Nibert (1998) assumes a constraint/filter \*[+high,-ATR] proposed by Calabrese (1991)
- 'hybrid' computational system with rules and constraints
- Are filters universal? How are they acquired?



- the strategy employed by Servigliano is negation
- $*[-ATR,+high] \rightarrow -[-ATR,+high] \rightarrow [+ATR,-high]$
- a natural analysis of such data is the spreading of feature [+high] from the following vowel to the preceding one
- no such analysis is available under ET
- as a matter of fact the metaphony data should not exist
- In sum: ET allows for a much more natural account of vowel reduction, while the binary feature framework allows for a much more natural account of metaphony

- Is ET devenseless against the metaphony data?
- van Oostendorp and d'Alessandro (2016) 'Abruzzese metaphony and the |A|-eater'

#### (2) MASCULINE NOUNS

a> i	lu canə	li chinə	'the dog/s' <sup>3</sup>
e> i	lu velə	li vilə	'the veil/s'
ε> i	lu martɛllə	li martillə	'the hammer/s'
o>u	lu/la nəpətə	li nəputə	'the nephew-niece/s'
o>u	Ιυ waλλonə	li wassunə	'the young boy/girl/s'

#### (3) MASCULINE ADJECTIVES

a>i	mattə	mittə	'crazy sg-PL'
e>i	nerə	nirə	'black sG-PL'
$\epsilon > i$	bellə	billə	'beautiful sg-pL'
$\mathfrak{d} > \mathfrak{u}$	turdəllənə	turdəllunə	'dumb sG-PL'
o> u	novə	muvə	'new SG-PL'

#### (4) VERBS $(1^{ST} VS 2^{ND} PERSON SING. ALTERNATION)$

magnə	mignə	'I-eat/you eat'
vedə	vidə	'I see/you see'
leggə	liggə	'I read/you read'
dərmə	durmə	'I sleep/you sleep'
sonə	sunə	'I play/you play'
	magnə vedə lɛggə dɔrmə sonə	magnə mignə vedə vidə lɛggə liggə dərmə durmə sonə sunə

#### FEMININE NOUNS never show any metaphony:

(5) a	la mammə	li mammə	'the mother/s'
e	la cestə	li cestə	'the basket/s'
3	la cendə	li cɛndə	'the belt/s'
э	la yənnə	li yənnə	'the skirt/s'
0	la mojə	li mojə	'the wife/wives'
	-	-	

'The word muturettə can, for example, denote a small motor, when masculine, or a small motorbike, when feminine; the article will show which gender is used in the singular, but in the plural the presence or absence of metaphony will denote the distinction...'

(6) a. *mu/lu muturettə* 'a/the small motor'

ddu/li muturittə 'two/the small motors'

b. *na/la muturette* 

ddu/li muturettə 'a/the small motorbike' 'two/the small motorbikes'

• interaction with *a*-insertion

a. *la casə* the-F.SG house-F.SG 'the house'

b. *la casa roscə* the-F.SG house-F.SG red-F.SG 'the red house'

• interaction with *a*-insertion

a.	lu	canə	
	the-M.SG	dog-M.SG	
	'the dog'		
b.	lu	can <b>ə</b>	сіоррә
	the-M.SG	dog-M.SG	lame-sG
	'the lame do	og'	
c.	*lu cana cie	oppe	
	the-M.SG	dog-M.SG	lame-sG
d.	li	chin <b>a</b>	сіиррә
	the-M.PL	dogs-M.PL	lame-PL
	'the lame do	ogs'	

- interaction with *a*-insertion
- *a* surfaces in masculine plural forms due to the working of metaphony, which is moving of |A| to the word-final position
- how is that achieved?

 van Oostendorp and d'Alessandro assume that fearures [masculie, plural] are realized as a mora

• they assume the following Well Formedness Condition

a. Every mora should be linked to something (either higher-order prosody or segmental material)

b. A segment cannot be linked to more than one mora.

c. A syllable cannot host more than three mora's.

• the mora will attract the |A| because it is 'the most sonorous segment' (mora is the |A|-eater)

mesə/misə (month-M.SG/PL)





• 'The reason why metaphony targets only the stressed vowel is that all vowels following that vowel are reduced in Abruzzese, and therefore will not contain an |A| element.'

22)	a. 'mɔ.nə.kə	m <b>u</b> .nə.t∫ə	(monk-M.SG/PL)
	b. 'mə.b:ə.lə	m <b>u.</b> b:ə.lə	(furniture-M.SG/PL)
	c. ′jɛ.nə.mə	j <b>i.</b> nə.mə	(son-in-law.my-M.SG/PL)

(23) jenəmə, jinəmə



- Problem: *cane* 'dog' contains only element |A| in its stressed syllable
- this syllable surfaces with /i/ in the metaphony context

• interaction with *a*-insertion

a.	lu	canə	
	the-M.SG	dog-M.SG	
	'the dog'		
b.	lu	can <b>ə</b>	сіоррә
	the-M.SG	dog-M.SG	lame-sG
	'the lame do	og'	
c.	*lu cana cie	oppe	
	the-M.SG	dog-M.SG	lame-sG
d.	li	chin <b>a</b>	сіиррә
	the-M.PL	dogs-M.PL	lame-PL
	'the lame do	ogs'	

• interaction with *a*-insertion



 van Oostendorp and d'Alessandro (2016) provide two solutions:

- that /i/ is the 'default' realization of the stressed syllable in Abruzzese/Ariallese
- or that the [masc, plural] is actually a mora AND element [I]
- in *china 'dogs'* ||| surfaces on the stressed syllable
- this is legitimized by the final palatalization

monəke/ munətʃə (monk-M.SG/PL)



• interaction with *a*-insertion

a.	lu	canə	
	the-M.SG	dog-M.SG	
	'the dog'	-	
b.	lu	can <b>ə</b>	сіоррә
	the-M.SG	dog-M.SG	lame-SG
	'the lame dog	,	
c.	*lu cana ciop	pe	
	the-M.SG	dog-M.SG	lame-sG
d.	li	chin <b>a</b>	сіиррә
	the-M.PL	dogs-M.PL	lame-PL
	'the lame dog	s'	

- interaction with *a*-insertion
- the *a* is not etymological: historically the affix was /i/



 van Oostendorp and d'Alessandro claim that a is pronouced in intaphrasal position because it is like intra-word position

- /a/ does not reduce inside words, only at the end
- intraphrasal position is like intra-word position
  - (29) cavallə/ capabballə/ waglionə ('horse/ downhill/ boy')
  - (30) mamma, casa ('mother/ house')

• is the solution employed for Abruzzese extendable to Servigliano?

a.	/e/ raised to [	i]			
	métt-o	'I put'	mítt-i		'you put'
	kréd-o	'I believe'	kríd-i		'you believe'
	kwést-o	'this (NEUT)'	kwíst-u		'this (MASC.SG)'
	kwést-e	'these (FEM.PL)'	kwíst-i		'these (MASC.PL)'
	pés-a	'heavy (FEM.SG)'	pís-u		'heavy (MASC.SG)'
	més-e	'month (MASC.SG)	mís-i		'month (MASC.PL)'
	métt-a=ča=la	'put it (FEM.SG)	mítt-u=d	u=lu	'put it (MASC.SG)
		there'			there'
	métt-e=če=le	'put it (FEM.PL)	mítt-i=č	i=li	'put it (MASC.PL)
		there'			there'
b.	/o/ raised to [u]				
	fjór-e	'flower	fjúr-i	'flov	ver (MASC.PL)'
		(MASC.SG)'			
	spós-a	'wife (FEM.SG)'	spús-u	'hus	band (MASC.SG)'
	рóč-е	'flea (MASC.SG)'	púč-i	'flea	(MASC.PL)'
	róšš-a	'red (FEM.SG)'	rúšš-u	'red	(MASC.SG)'
	skjifós-a	'fussy (FEM.SG)'	skjifús-u	'fuss	y (MASC.SG)'
	lóng-a	'long (FEM.SG)'	lúng-u	'long	g (MASC.SG)'

C.	/ɛ/ raised to [e]		
-			

C.	/E/ Taised it				
	modést-a	'modest (FEM.SG)'	modést-u '	modest (MASC.SG)'	
	sgwéz-a	'sinister (FEM.SG)'	sgwéz-u '	sinister (MASC.SG)'	
	ššwért-a	'eccentric (FEM.SG)'	ššwért-u '	eccentric (MASC.SG)'	
	pétten-e	'comb (MASC.SG)'	péttin-i '	comb (MASC.PL)'	
	prédok-o	'I preach'	prédik-i '	you preach'	
	pérsak-a	'peach tree (FEM.SG)'	pérsuk-u '	peach (MASC.SG)'	
			pérsik-i "	peach (MASC.PL)	
d.	/s/ raised to [o]				
	spr <i>źt-a</i>	'pedantic (FEM.SG)'	sprót-u	'pedantic	
				(MASC.SG)'	
	тэ́r-е	'he dies'	mór-i	'you die'	
	mórt-a	'dead (FEM.SG)'	mórt-u	'dead (MASC.SG)'	
	móš-a	'depressed (FEM.SG)	' móš-u	'depressed	
				(MASC.SG)'	
	birikókan-a	a 'apricot tree	birikókun	-u 'apricot	
		(FEM.SG)'		(MASC.SG)'	