Verb height indeed determines prosodic phrasing: evidence from Iron Ossetic

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In a nutshell

- We provide novel evidence in favor of flexible mapping between an Intonational Phrase (1) and syntactic constituents, based on evidence from Iron Ossetic (East Iranian).
- 1 is commonly assumed to map onto a **syntactic clause**, but a 'clause' has been variably defined: as a syntactic unit, a semantic/information-structural unit, etc.
- Hamlaoui & Szendrői (2015; 2017): **is flexible** and corresponds to the highest projection that hosts verbal material, together with its specifier (**HVP**, 'highest verbal projection'/ 'highest projection of the verb').

 \Rightarrow A **prediction** that it makes is that ι -size is also determined by HVP in languages where the height of the verb varies with utterance type.

Flexible *i*-mapping



(Szendrői 2017)

Iron Ossetic: basics

Highlights of grammar:

- East Iranian, spoken in North and South Ossetia
- SOV, but word order largely determined by information structure
- mostly left-branching/head-final
- rich morphology
- a system of aspectual prefixes
- second-position pronominal clitics



Iron Ossetic: basics

- Left-branching up to TP
- Finite verb assembled by head movement.
- Aspectual prefixes occupy Asp⁰
- Subject generated in Spec,vP and moves to Spec, TP.





Preverbal constituent(s) = Spec, XP(s)

Verb = X^0 of the lowest discourse projection with a non-empty specifier If a discourse projection is empty, it is not projected

Iron Ossetic prosody: basics

 ι in Iron Ossetic consists of one or more ϕ s

 H^* | $\iota(\varphi()_{\varphi} \varphi()_{\varphi} \varphi()_{\varphi})_{\iota}$

only the initial ϕ of an ι carries a high pitch accent H^*

Negative indefinites

(17) $_{\varphi}(abon)_{\varphi \iota}(_{(NegP} ni-ffi)_{\varphi} _{\varphi}([NegP} ni-kem-ej)_{\varphi \varrho}(_{(Neg'} a-l \geq \varepsilon d-i]])_{\varphi})_{\iota}.$ today NEG-who NEG-who-ABL PRV-run.away-PST.3SG 'Today no-one run away from anyone.'



Negative indefinites



Wh-questions

(21) φ(Abon)φ φ(indzen)φ ι(φ([wP saver wejgenedze binojnag)φ today cottage.cheese which seller's spouse
 φ([wP' elχene]])φ)ι? buys
 'Which seller's spouse buys cottage cheese today?'



Wh-questions



Narrow foci

(25) ('Who does no-one ever trust in your family?')

 $(ne \chi ezar\partial)_{\varphi} (alanol)_{\varphi} ((niffi)_{\varphi} (nik \partial)_{\varphi})_{\varphi} (ewwend\partial)_{\varphi})_{\iota}.$ our family.in Alan.SUP no-one never trusts 'In our family, no-one ever trusts ALAN.'



Narrow foci



Time (s)

More complex cases...

 \Rightarrow extras in the slides + supplementary handout (*a lot* more information there!)

To conclude:

- The **flexible 1-mapping approach** successfully accounts for the properties of 1formation in Iron Ossetic.
- The Iron Ossetic facts provide **support** for the flexible 1-mapping approach, which has not been tested on languages that have multiple projections available for verb raising, depending on context.

Thank you ~ Merci beaucoup ~ бузныг

Wh-questions with negative indefinites

(26) medine kemen nik^wo niso ra-zur-o?
Madina who.DAT never nothing PRV-tell-PRS.3SG
'Who does Madina never tell anything?'

 $_{\varphi}(Wh)_{\varphi \iota}(_{\varphi}(Neg)_{\varphi \iota}(V)_{\varphi})_{\iota} \leftarrow \text{predicted by the flexible } \iota\text{-mapping hypothesis}$

 $_{\iota}({}^{!}_{\varphi}(Wh)_{\varphi} _{\varphi}(Neg)_{\varphi} _{\varphi}(V)_{\varphi})_{\iota} \quad \leftarrow \text{ actually attested}$



Wh-questions with negative indefinites

Time (s)

Multiple wh-questions

(31) ([!]_φ(sever ged_∂)_φ ([!]_φ(sever w∂ng-me)_φ (nik^w_∂)_φ (raliz_∂)_φ)_ι? which cat which street-ALL never run.PRS.3SG
'Which cat never runs along which street?'

 $_{\varphi}(Wh)_{\varphi} _{\varphi}(Wh)_{\varphi} _{\iota}(_{\varphi}(Neg)_{\varphi} _{\varphi}(V)_{\varphi})_{\iota} \leftarrow \text{predicted}$

 ${}_{\iota}({}^{!}_{\varphi}(Wh)_{\varphi \iota}({}^{!}_{\varphi}(Wh)_{\varphi \varrho}(Neg)_{\varphi \varrho}(V)_{\varphi})_{\iota} \qquad \leftarrow \text{ attested }$

Multiple wh-questions



POST-%H DEPHRASING

(30) **POST-%H DEPHRASING**

delete all initial *i*-boundaries to the right of %H, other than those formed by %H (= no '_i(' to the right of '_i(')).

Evidence for %H:



Relevant OT constraints

Following Hamlaoui & Szendrői (2015; 2017), we propose that the correspondence between ι and syntactic projections in Iron Ossetic adheres to the flexible ι-mapping principle, governed by the family of ALIGN-R/L(HVP, ι) constraints:

• the right and left edges of the HVP are mapped onto the corresponding edges of 1, respectively.

Additionally:

- the right and left edges of smaller constituents that do not include the clausal spine (e.g. DPs, PPs) are mapped onto the right and left edges of φ , respectively, by ALIGN-R/L(XP, φ);
- the edges of the full ('illocutionary') clause are mapped onto the respective edges of υ by ALIGN-R/L(CP, υ).