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Variable-force modality and inevitability in Tatyshly Udmurt:

the case of the -(o)no modal form

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modal participle on *-(o)no*, which displays the effects of variable-force modality (see Rullmann et al. 2008, Deal 2011, Newkirk 2022, a.o.)

> Where & when:

Tatyshly Udmurt < Permic < Uralic languages
Fieldwork in the Tatyshly district of the Republic of
Bashkortostan (Russia) in 2022-2023
More details: https://tatyshly-udmurt.tilda.ws

Methodology:

elicitation sessions with 8 native speakers of Tatyshly Udmurt

- ✓ translation task from Russian into Udmurt (context types according to Vander Klok 2022)
- ✓ felicity judgment task (to evaluate whether the form is felicitous in the designed contexts triggering possibility or necessity reading)
- ✓ diagnostics suggested for variable-force modals (e.g. downward-entailing contexts (Neg, UQ, etc.), see Mirrazi & Zeijlstra 2022)

attributive



Interpretation of -ono depends on its syntactic position:



Circumstantial necessity reading only: *p* is necessary due to the external circumstances

- Affirmative contexts: variable modal force (1) or "generic" (2) meaning
- (1) mon **uža-no** zadač'a-jez tod-is'ko-Ø.
 - I work-deb task-acc know-prs-1sg
 - 'I know which task I can / must work on'.
- (2) a. *ul-ono gurt* b. *lob-ono tâloburdo* 'a village where people live' 'a migratory bird'
- ➤ Negation: possibility/ ?necessity, esp. for more lexicalized items like (3)
- (3) ton mônôm les't-on-tem už-ez s'ot-i-d.

 you I.dat do-deb-neg work-acc give-pst-2sg

 'You've given me a task which is impossible to do'. [neg>can]

 *'You've given me a task which needn't be done'.

 [neg>must = can>neg]
- [neg>must = can>neg]

 (4) mon mis'k-on-tem derem-ez vaj-i- Ø.

 I wash-deb-neg shirt-acc bring-pst-1sg

 'I brought a shirt that needn't be washed {it's clean}'.

 [neg>must = can>neg]
 - ?'I brought a shirt that is **impossible to wash** {the stains cannot be removed}' [neg>can]
- > Universal quantifier: ??possibility / necessity
- (5) *nôl škaf-is'* van' **lôdž'-ono** kn'iga-jos-ôz bas't-i-z.
 girl bookcase-el all read-deb book-pl-acc take-pst-3sg
 {The girl must read all the books from the list for her literature class. /
 The girl has learnt to read and would like to take all the books from the bookcase.} 'The girl took from the bookcase all the books that she **must** / ??**can** read'.

> «No choice»:

(6) mon gorod-e môn-ono lii-o-Ø.

I city-ill go-deb become-fut-1sg
'I have to go/*can go to the city {I have no choice}'.

> Scientific predictions:

(7) *šukaje* s'iz'əm sägät kuamən minut-ən met'eorit tomorrow seven hour thirty minute-loc meteorite muzjem-en pumis'k-ono lu-o-z.

Earth-ins meet-deb become-fut-3sg
'At 7:30 tomorrow the meteorite will collapse with Earth'.

> Negation:

(8) ataj šukaje **uža-no jevôl**.
father tomorrow work-deb neg
'Father **isn't working** tomorrow' {it is already decided}.
[must>neg]

> Construction with a dative subject (mostly dynamic necessity):

(9) $3'\hat{\partial}r$ vis'-e, $m\hat{\partial}n\hat{\partial}m$ $pe^{\gamma}lo$ **pot-ono**. head hurt-prs.3sg I.dat outside go_out-deb 'I've got a headache, I **need to go out** {to get a breath of fresh air} / *can go out'.

semantics

Yanovich (2016): "collapse variable-force" semantics of Old English *motan (> must)

*motan(p) 1) asserts that the situation p is an open **possibility**; 2) presupposes that if p gets a chance to actualize, it **inevitably** will do so.

- → Due to the presupposition, *motan is only used in a limited set of contexts, where the future is predetermined.
- (10) and gedo me bæs wyrðne bæt ic be and make me that.gen worthy that I you mote geseon.

 motan.prs.sbj.1sg see

 'and make me worthy of it that I mote see you.' (Sol:1.55.23)

 (= if God makes it possible for the speaker to see them, then obviously the speaker would use that chance)

> Semantics for *V-ono*:

- 1) in **predicative** contexts, *V-ono* entails an absence of alternatives for *V*: there is a possibility for *V* (assertion), and *V* will inevitably actualize (presupposition);
- 2) in **attributive** contexts, *V-ono* is no longer the only component of the clause assertion, and its interpretation (whether the situation actualizes due to the possibility at the subject's disposal or their necessity to act in a particular way) depends on the contextual environment.

remarks on diachrony & discussion

Serebrennikov (1963): -ono is derived from the **verbal noun on -on**, encoding possibility and purpose (\check{z} ' \dot{u} -on $\dot{v}\dot{u}$ 'drinking water') + **attributive -o**, encoding a (usually inalienable) feature of an entity (\dot{v} o \check{z} ' \dot{s} ' \dot{s} ' a green-eyed cat')

- inner form ('permanent possibility/purpose') motivating the "generic" readings and the inevitability component ('smth. destined')?
- * 'more lexicalized' negative forms (with a single [neg>can] interpretation) derived from the older *-on* form?
- * habitual-future polysemy as a closely related phenomenon? (see Tatevosov 2005 on development of habituals into futures via modality)
- Cf. Shagal (2017:111): "participles expressing future meaning are used to describe modified nouns with regard to possible or necessary situations", presumably due to "pragmatic inefficiency of characterizing a participant by referring to an event that has not yet taken place".

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