Epistemic indefinites in Daakaka

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Triple A III

1 Introduction

2 Possible solutions

Specificity Domain widening/shifting Modal restriction

③ Preliminary conclusions

Conditional clauses:

- a. ka vyanten tuswa te me te saka ko=n sóró subconj person tuswa dist come conj nec.mod 2s=nec speak myane with 'if anyone comes, don't talk to them'
 - b. ka vyanten **swa** te me te saka ko=n sóró subconj person swa dist come conj neg.mod 2s=nec speak myane

with

'if someone comes, don't speak to him/her' (I have someone specific in mind)

- (2) a. Wotop **swa** to pwer. breadfruit swa REAL;NEG stay 'One breadfruit is missing.'
 - b. Wotop **tuswa** to pwer./? breadfruit TUSWA REAL;NEG stay
 - (i) 'There is no breadfruit.'
 - (ii) 'Is there no breadfruit?'

- (3) a. Wotop swa mwe pwer. breadfruit swa REAL stay 'One breadfruit remains.'
 - b. Wotop tuswa mwe pwer? breadfruit TUSWA/ a.bit(NPSUP) REAL stay 'Is there a breadfruit (left)?'
 - c. #Wotop **tuswa** mwe pwer. breadfruit TUSWA/ a.bit(NPSUP) REAL stay intended: 'there is one breadfruit left'

The Specificity Hypothesis

Swa signals familiarity with a referent on the side of the speaker, *tuswa* signals that the referent is not identifiable

(4) a. webung tuswa yaapu ka we kueli me day TUSWA/ SWA big.man MOD.REL POT return come 'one day, God will return'
b. #?webung swa yaapu ka we kueli me day SWA big.man MOD.REL POT return come

"on a certain day, God will return (namely next Tuesday)"

The Specificity Hypothesis: Contra

- (5) a. Yan swa ka ta ane mees swa te sanga yen tes, te wa on one сомр DIST eat food swa DIST BAD in sea DISC POT kuowilye ka wa tiye ngok know сомр рот fight 2sg "Sometimes, if [this kind of fish] has eaten something bad, it may attack you"
 - b. Yene en=tak, ka ko=t esi ka ó **swa** te now DEM=DEM.PROX COMP 2SG=DIST see COMP coconut SWA DIST mur me te ra=m esi na sa vyaven en=te fall come DISC 1PL.IN=REAL see COMP TOP woman DEM=DEM.PROX met-an sa nge eye.of-3SG.POSS TOP NGE "Nowadays, if you see **a coconut** fall down from a tree, we see

this woman's eyes there."

Hypothesis: Domain widening and/or shifting

Both *swa* and *tuswa* introduce existential quantifiers, but *tuswa* either lifts the contextual restriction on the quantifier or shifts the method of identification from the contextually salient one to a different one.

• In the context of Els in European languages, the processes of domain widening (Alonso-Ovalle & Menéndez-Benito, 2010: e. g.) or domain shifting (Aloni & Port, 2006) are preferred methods to account for the difference between simple indefinites and epistemic indefinites.

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- This hypothesis would be able to deal with the examples seen so far.

Domain widening/shifting: Contra

But it fails to account for the differences between *swa/tuswa* and their English or German counterparts:

- Outside of generic temporal and conditional clauses, the use of *swa* indicates that the speaker has a specific referent in mind. The same is not true for simple indefinites like *a* in Standard European languages.
- 2 Tuswa cannot generally occur in past realis contexts:
 - (2) #Wotop tuswa mwe pwer. breadfruit TUSWA/ a.bit(NPSUP) REAL stay intended: 'there is one breadfruit left'
 - (6) Some breadfruit(s) is/ are left.
 - (7) Irgendeine Brotfrucht ist noch da/ irgendwelche Brotfrüchte sind noch da.

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Note that this observation is compatible with the Specificity Hypothesis under the assumption that familiarity with a concrete situation is a sufficient condition for identifiability of the referent on the side of the speaker.

Hypothesis: Modal restriction

Tuswa takes a property P and an individual x and asserts that the property P holds for non-realis indices. Swa asserts P(x) for realis indices.

¹The following is joint work with Manfred Krifka

Defining realis vs. non-realis indices: Branching Times



Realis: $i \leq i_0$ Non-realis: $i \leq i_0$

Definition: *swa* (one.sp)

 $\llbracket swa \rrbracket = \lambda i \lambda R \lambda P. \exists i', i' \leq i_0. \exists x P(x)(i'), R(x)(i)$

Definition: *tuswa* (one.nsp)

 $\llbracket tuswa \rrbracket = \lambda i \lambda R \lambda P. \exists i', i' \leq i_0. \exists x P(x)(i'), R(x)(i)$

(8) a. [ka vyanten swa/tuswa te me] te saka ko=n SUBCONJ person SWA/ TUSWA DIST COME CONJ NEG.MOD 2S=NEC sóró myane speak with 'if someone specific/ anyone comes, don't talk to them'

Definition: *tV* (DISTAL)

 $\llbracket \texttt{DIST} \rrbracket = \lambda i.i \neq i_0$

- (9) (if) someone specific comes: $\lambda i.i \neq i_0, \exists i'.i' \leq i_0, \exists x.person(x)(i'), come(x)(i)$
- (10) (if) anyone comes: $\lambda i.i \leq i_0, \exists i'.i' \neq i_0, \exists x.person(x)(i'), come(x)(i)$

Definition: to (NEG.REAL)

Wide scope: $\llbracket \text{Neg.real} \rrbracket = \lambda p. \neg \exists i \in R_i, i \leq i_0, p(i)$ Narrow scope: $\llbracket \text{Neg.real} \rrbracket = \lambda P \lambda x. \neg \exists i \in R_i, i \leq i_0, P(x)(i)$

- Wotop swa/tuswa to pwer.
 breadfruit swa/ TUSWA REAL;NEG stay
 'One breadfruit is missing/ there are no breafruits.'
- (12) $[[breadfruit swa]]([[neg.real be.present]]) = \exists i, i \leq i_0.\exists x.breadfruit(x)(i), \neg \exists i'.i' \in R_I, i' \leq i_0, be.present(x)(i')$
- (13) # [[breadfruit TUSWA]]([[NEG.REAL be.present]]) = $\exists i.i \leq i_0, \exists x.breadfruit(x)(i), \neg \exists i'.i' \in R_l, i' \leq i_0.be.present(x)(i')$
- (14) $[[NEG.REAL]]([[breadfruit TUSWA be.present]]) = \neg \exists i' \in R_i, i' \leq i_0 \exists i, i \leq i_0 \exists x.breadfruit(x)(i), be.present(x)(i')$

(15) barvinye swa ka we luk tevesye m-ada em grass one ASR POT grow side.of CL2-1D.IN house "a plant will grow at the side of our house"

...this plant does not exist yet, contrary to the prediction from definition swa.

(15) barvinye swa ka we luk tevesye m-ada em grass one ASR POT grow side.of CL2-1D.IN house "a plant will grow at the side of our house"

...this plant does not exist yet, contrary to the prediction from definition *swa*. Note that, again, this example is compatible with the Specificity Hypothesis, since the speaker of the sentence has a specific individual plant in mind. A weaker version of the modal-restriction hypothesis may be able to deal with (15):

Only *tuswa* may include a modal restriction to non-actual indices, *swa* may be underspecified with respect to its modal domain.

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But then we would still fail to account for the specificity difference in future contexts. Examples like the following are problematic for both versions:

- (16) a. webung tuswa yaapu ka we kueli me day TUSWA/ SWA big.man MOD.REL POT return come 'one day, God will return'
 - b. #?webung **swa** yaapu ka we kueli me day swa big.man MOD.REL POT return come "on a certain day, God will return (namely next Tuesday)"

A map of hypotheses and their relations to evidence



Thank you!

Generic temporal clauses with tuswa

- (17) a. or tuswa na ka te vyan syokilyene an mees ar an place one COMP MOD PAST go find DEF food place DEF te ane mees tuswa te ka we mas pwer a-te DISC eat food one DISC MOD POT must stay LOC.DEM-DEM.MED mur sii we piece three first "somewhere, if it finds some food there, it has to stay there for a little while first"
 - b. ka ra=t du a ongane baséé en=te te pwe COMP 1PL.IN=DIST stay and hear bird DEM=DEM.PROX DIST stay sóró yan bweti le-wotop **tuswa** te bwe ka na talk on stem.of tree.of-breadfruit one DIST CONT say that wotop ka we pa breadfruit ASR POT bear.fruit "When we hear this bird sing on a breadfruit tree, then it's announcing that this tree will soon bear fruit."

There is one occurrence in my corpus with *tuswa* in a positive past realis context, where it gets a partitive reading.

(18) temeli vyaven tuswa mwe me kueli
 child female TUSWA REAL come return
 'then one of the (two) girls returned' "then one of the woman returned."

- Aloni, Maria, & Port, Angelika. 2006. Epistemic indefinites crosslinguistically. *Pages 1–14 of:* Elfner, Emily, & Walkow, Martin (eds), *Proceedings of nels*, vol. 36.
- Alonso-Ovalle, Luis, & Menéndez-Benito, Paula. 2010. Modal indefinites. *Natural Language Semantics*, **18**, 1–31. 10.1007/s11050-009-9048-4.