NELS 50 @ MIT



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1. The phenomenon: German 'man' in	episodic sentences
 German 'man' is a dedicated impersonal pronot like English <i>one</i>, it can occur in generic sentences denoting "people in general": (1) Man muss sich die Zähne putzen. One has to brush one's teeth. 	 In; ► Unlike English one, German man also readily occurs in episodic sentences: "existential use" (≈ 'someone') (2) Man hat für dich angerufen. IMP has for you called 'IMP called for you.' (Fenger 2018:297)
 Dedicated impersonal pronouns: generally restrict ⇒ the brushing in (1) and the calling in (2) is done by German 'man': only nominative; suppletive forms in ⇒ suppletive forms do not occur in the existential use 	ted to talk about humans, unspecified for number y one or more humans (see Cabredo Hofherr 2015, Fenger 2018) the accusative (i.e., <i>einen</i>) and dative (i.e., <i>einem</i>) (see discussion in Kratzer 1997)
2. 'Man' as an existential quantifier?	3. 'Man' as an existentially closed variable?
 Proposal: In episodic sentences, man denotes an existential quantifier over humans (≈someone). (3) [man_{ex}] = λP.∃x[human(x) ∧ P(x)] Problem: man does not scopally interact as expected with other quantifiers or negation: it only has low scope (see Zifonun 2000) (4) Man hat mich dreimal angerufen. Jemand hat mich dreimal angerufen. 'Someone called me three times.' (5) Man hat bei uns nicht eingebrochen. Jemand hat bei uns nicht eingebrochen. 'Someone didn't break in at our place.' ⇒ jemand can scope over dreimal and nicht ⇒ man only allows for low scope 	 Proposal: man contributes an individual variable x that is bound by existential event closure ⇒ captures the obligatory low scope (see e.g., Malamud 2012) (6) [(2)]^c = ∃e, x[τ(e) < c_T ∧ call(c_A)(x)(e)] IN WORDS: there is an event e and an individual x such that the runtime of e precedes the utterance time c_T, and e is a calling-event by x in order to reach the addressee c_A. Problem: The "referent" of man cannot be picked up by a pronoun in the next sentence – unlike for the event. (7) Jones buttered a piece of toast. He did it with a knife in the bathroom. (Davidson 1967:37) (8) Man hat für dich angerufen. #Er wollte über das Projekt reden. 'IMP called for you. He wanted to talk about the project.'
 Upshot: Man in episodic sentences does not behave like a simple existential quantifier. 4. 'Man' as a contextually interpreted Proposal: man contributes an individual variable x the Worry: man ≠ 3rd sg personal pronoun deictic 3rd sg pronouns are traditionally analyzed as variables interpreted in context via g. (see Heim & Kratzer 19) Referents of 3rd sg pronouns are anaphorically accessible (cf. (4)) (9) He called for you. He wanted to talk about the project. 	 Upshot: Any existential force attributed to <i>man</i> must not introduce anaphorically accessible individuals. free individual variable? hat is interpreted arbitrarily via the variable assignment g. Problem: unlike type-e-expressions, <i>man</i> cannot associate with 'als'-phrases (Kratzer 1997, Zobel 2018) (10) Gestern verliefen wir uns in der Innenstadt. #Als Einheimischer zeigte man uns den Weg. (Cannot mean: As a local, a person showed us the way.)

Upshot: A context-based analysis must not use the same components as a type-*e*-variable analysis for pronouns.

A non-existential analysis for the German impersonal pronoun 'man' in episodic sentences

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Proposal: "existential" 'man' as an operator

posal: man is an operator (type $\langle evt, vt \rangle$) that fills the highest argument slot of a one-place predicate P with the imal individual that participates in the event e in the role belonging to the slot (cf. Chierchia 1995) (output: set of events $\langle v, t \rangle$)

 $\llbracket man_{ex} \rrbracket^{c} = \lambda P_{\langle e, vt \rangle} . \lambda e_{v} . P(max[\lambda y. P(y)(e)])(e)$

 $[(2)]^{c} = \exists e[\tau(e) < c_{T} \land call(c_{A})(\max[\lambda y.call(c_{A})(y)(e)])(e)]$

IN WORDS: there is an event e such that the runtime of e precedes the utterance time c_T , and e is a calling-for-the-addressee-event by the maximal individual who called the addressee c_A in e.

imal individual? man is compatible with a semantically plural subject, (13), and it is arguably always the mal plurality involved in the event that is understood, (14).

- Man hat sich gegenseitig gedeckt. (14) Gestern hat man mit Streichhölzern die Uni angezündet. 'IMP covered for each other.'

Properties of max[...]

The variable-based analysis in (6) provides a value of *max*[...] **depends only on** *P* and *e*: unified way to capture *man* in generic sentences ly information about the inferred individual is their participation in e \Rightarrow binding of x by the generic operator Gen otures the similarity to passivization with an implicit agent (see König & Mauner 1999, Cabredo-Hofherr 2010, Zobel 2017) (16) Gen x [has-to-brush-teeth(x)] identity of the individual often cannot and also does ► The **operator-based analysis** in (11) contains no have to be made explicit (\rightarrow "existential"). bindable variable for Gen conversational backgrounds of modals (e.g., Kratzer 2012) \Rightarrow man has to be analyzed as polysemous ..] is **compatible with additional inferences** about \Rightarrow only generic *man* contributes a variable alue based on further contextual information: **Positive consequence:** captures that existential Gestern war Vorstandssitzung. *man* cannot be bound by quantifiers (cf. Zobel 2017) Man hat Peters Antrag bewilligt. 'Yesterday the board meet. IMP accepted Peter's proposal.' (17) *Keiner₁ behauptet, dass man_1 die Uni angezündet hat. $MP \rightsquigarrow \text{the members of the board}$ lentifiability of max[...] depends on the context (**Cannot mean:** No one₁ claims they₁ set the uni on fire.)

summary: the proposal in brief

nan 'man' is polysemous: it contributes a variable in its generic use and an operator in its "existential" use. "existential use": the highest verbal argument is set as the maximal individual involved in the event ibed by the predicate **in the relevant role**; no variable or existential quantifier is involved in the interpretation. only information about the individual is its participation, the interpretation intuitively corresponds to "someone".

ences

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??Die anderen Täter haben Feuerzeuge benützt. 'Yesterday, IMP set the uni on fire using matches. The other culprits used lighters.'

7. "Existential" vs. generic 'man'

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