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Cross-linguistic connections

Conclusion 000000

## Nominal Reference Beyond Individuals

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MEANING IN LANGUAGE COLLOQUIUM @ HHU DÜSSELDORF

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#### (1) Numeral DPs in Subject position

- a. [Four pizzas] are vegetarian.
- b. [Four pizzas] is enough.

individual degree

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### (2) Numeral DPs in Object position

- a. Jane bought [three pizzas]. They were delicious.
- b. Jane bought [three pizzas]. It was more than we needed.

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### (2) Numeral DPs in Object position

- a. Jane bought [three pizzas]. They were delicious.
- b. Jane bought [three pizzas]. It was more than we needed.

## (3) Quantity-word DPs

- a. [Many/Three guests] **are** drunk.
- b. [Many/Three guests] is more than Bill had anticipated.

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### (2) Numeral DPs in Object position

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## (3) Quantity-word DPs

- a. [Many/Three guests] are drunk.
- b. [Many/Three guests] is more than Bill had anticipated.

### (4) Bare plurals

- a. [French fries] were eaten by the senators.
- b. [French fries] is not enough. The senators will need protein.

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### (2) Numeral DPs in Object position

- a. Jane bought [three pizzas]. They were delicious.
- b. Jane bought [three pizzas]. It was more than we needed.

## (3) Quantity-word DPs

- a. [Many/Three guests] **are** drunk.
- b. [Many/Three guests] is more than Bill had anticipated.

## (4) Bare plurals

- a. [French fries] were eaten by the senators.
- b. [French fries] is not enough. The senators will need protein.

## (5) **Pseudo-partitives**

- a. [Four feet of (the) plywood] are warped.
- b. [Four feet of (the) plywood] is more than Betty asked for.

Motivation	Distribution	Semantics	NA
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# A "polysemy"



### (6) **Definite DPs**

- a. [The paintings he salvaged] were damaged.
- b. [The paintings he salvaged] was enough.

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Conclusion

# A "polysemy"



### (6) **Definite DPs**

- a. [The paintings he salvaged] were damaged.
- b. [The paintings he salvaged] was enough.

### (7) Wh-questions with how many

- a. [How many books] are on the table?
- b. [How many books] is too many?

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# A "polysemy"



### (6) **Definite DPs**

- a. [The paintings he salvaged] were damaged.
- b. [The paintings he salvaged] was enough.

#### (7) Wh-questions with how many

- a. [How many books] are on the table?
- b. [How many books] is too many?

### (8) Existential quantifier

- a. [Some (of the) cookies] are delicious.
- b. [Some (of the) cookies] is more than they deserve.

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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- The degree reading corresponds to a salient measure (often quantity) of the denoted individual.
- It conditions agreement, licensing the singular, inanimate pronoun it.
- It is distinct from the specific/non-specific ambiguity.

**Properties**?

• Preliminary research suggests it's *very* common (Romance, Greek, Hebrew, at least some Germanic languages).

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclus
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### Questions

- Output: Book of the set of the
- Is this indicative of some polysemy or systematic denotational ambiguity in nominals?
- What syntactic/semantic principles underlie these alternations?

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusior
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## Basic contrast

(9) a. Tres libros son.PL suficientes.PL 'Three books are enough'
b. Tres libros es.SG suficiente.SG 'Three books is enough'

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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## Basic contrast

- (9) a. Tres libros son.PL suficientes.PL
  'Three books are enough'
  b. Tres libros es.SG suficiente.SG
  'Three books is enough'
- Enough of what?
  - (9a) → of books
  - (9b) → of some property that can be sensibly predicated of *three books*

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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### Basic contrast

- (9) a. Tres libros son.PL suficientes.PL
  'Three books are enough'
  b. Tres libros es.SG suficiente.SG
  'Three books is enough'
- Enough of what?
  - (9a) → of books
  - $\circ~$  (9b)  $\rightsquigarrow$  of some property that can be sensibly predicated of *three books*

(10) Tres libros es suficiente { peso / material / ...}'Three books is enough { weight / material / ...}'

Call (9b) and co. Non-Agreeing Degree Predicate constructions (NADPs).

Motivation	
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Conclusion

## Predicates

### What kind of predicates count as NADPs?

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## Predicates

What kind of predicates count as NADPs?

#### (11) a. Comparatives

En ajedrez dos torres es mejor (que una reina) 'In chess two towers is better than a queen'

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## Predicates

What kind of predicates count as NADPs?

#### (11) a. Comparatives

En ajedrez dos torres es mejor (que una reina) 'In chess two towers is better than a queen'

#### b. Superlatives

Tres juguetes es lo mejor (que le puedes regalar) 'Three toys is the best that you can gift him' Distribution Distribution

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## Predicates

What kind of predicates count as NADPs?

#### (11) a. Comparatives

En ajedrez dos torres es mejor (que una reina) 'In chess two towers is better than a queen'

#### b. Superlatives

Tres juguetes es lo mejor (que le puedes regalar) 'Three toys is the best that you can gift him'

c. Equatives

Cuatro pizzas pequeñas es lo mismo (que dos grandes) 'Four small pizzas is the same as two big ones' Cross-linguistic connections

Conclusion

### Predicates

#### (12) a. Excessives

Tres libros es demasiada (lectura) 'Three books is too much reading' 

## Predicates

#### (12) a. Excessives

Tres libros es demasiada (lectura) 'Three books is too much reading'

#### b. Assetives

Cuatro pizzas es suficiente (comida) 'Four pizzas is enough food'

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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## Predicates

#### (12) a. Excessives

Tres libros es demasiada (lectura) 'Three books is too much reading'

#### b. Assetives

Cuatro pizzas es suficiente (comida) 'Four pizzas is enough food'

 Predicates expressing some form *measurement* or *comparison*, i.e. indicating different degrees of difference or similarity are good in NA contexts.

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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## Limitation I

Predicates expressing no measurement/comparison do not form good NADPs.

(13) a. Cinco defensas { \*puede.SG / pueden.PL } frenar al contrario

'Five defenders can stop the adversary'

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusi
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'Five defenders can stop the adversary'

b. Tres coches mal aparcados { \*puede.SG / pueden.PL } bloquear la salida

'Three poorly parked cars may block the exit'

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Co
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## Limitation I

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'Five defenders can stop the adversary'

b. Tres coches mal aparcados { \*puede.SG / pueden.PL } bloquear la salida

'Three poorly parked cars may block the exit'

c. Dos litros de producto { \*puede.SG / pueden.PL } desatascar el desagüe

'Two liters of product can unclogged the drainpipe'

d. Cinco artículos { \*es.SG / son.PL } necesarios para obtener la acreditación

'Five papers are requied in order to obtain the accreditation'

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# Limitation II

Predicates lexicalizing measurement/comparison do not form good NADPs.

## (14) Comparatives

- a. Dos sofás ocupan.PL más espacio del que disponemos 'Two couches take more space than we have
- b. Dos sofás es.SG más espacio del que disponemos 'Two couches is more space than we have available
- c. \* Dos sofás ocupa.SG más espacio del que disponemos

### (15) Excessives

- a. Tres libros pesan.PL demasiado 'Three books weight too much
- b. Tres libros es.SG demasiado peso 'Three books is too much weight
- c. \* Tres libros pesa.SG demasido

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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Limitation II



- (16) Assetives
  - a. Tres libros bastaron.PL para entretenerlos 'Three books sufficed to entertain them'
  - b. Tres libros fue.SG suficiente para entretenerlos 'Three books was enough to entertain them'
  - c. \* Tres libros bastó.SG para entretenerlos

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## Limitation III

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- Adjectives do not form good NADPs.
  - (17) a. Tres libros son.PL muy pesados 'Three books are very heavy
    - b. Tres libros es.SG mucho peso 'Three books is a lot of weight
    - c. \* Tres libros es.SG muy pesado(s)

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## Limitation III

- Adjectives do not form good NADPs.
  - (17) a. Tres libros son.PL muy pesados 'Three books are very heavy
    - b. Tres libros es.SG mucho peso 'Three books is a lot of weight
    - c. \* Tres libros es.SG muy pesado(s)
  - (18) a. Tres árboles son.PL demasiado altos 'Three tress are too high'
    - b. Tres árboles es.SG demasiada altura
       'Three trees is too much height'
    - c. \* Tres árboles es.SG demasiado altos(s)

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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Limita	tion IV				

- There is no variant of a "positive" form in NADPs, they *require* an overt degree predicate.
  - (19) a. Tres libros son pesados
    'Three books are heavy'
    b. \* Tres libros { es.SG / son.PL } peso
    'Three books is weight'

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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Limita	tion IV				

- There is no variant of a "positive" form in NADPs, they require an overt degree predicate.
  - (19) a. Tres libros son pesados
    'Three books are heavy'
    b. \* Tres libros { es.SG / son.PL } peso
    'Three books is weight'
  - (20) a. Tres árboles son altos 'Three trees are tall'
    - b. \* Tres árboles { es.SG / son.PL } peso
      'Three trees is weight

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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Limita	tions				

- The best results are obtained with copular (predicative) constructions; lexicaled variants of comparative/superlative constructions do not allow the alternation.
- Not any type of predicate/relation between degrees and individuals allows this alternation either: adjectives are not NADPs.
- There is no "positive" version of NADPs.

Motivation 000000	Distribution	Semantics 0000	NADPs 000000000000000000000000000000000000	Cross-linguistic connections	Conclusion
Subjec	ts				

• Quantifiers do not typically make good subjects of NADPs.

(21) a.\* {Varios / Pocos / Algunos / Muchos / Unos / Demasiados} libros es pred {A variety / Few / Some / Many / sm / too many} books is pred

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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Subjec	'ts				
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• Quantifiers do not typically make good subjects of NADPs.

(21) a.\* {Varios / Pocos / Algunos / Muchos / Unos / Demasiados} libros es PRED
{A variety / Few / Some / Many / sm / too many} books is PRED
b.\* {La mayoría de / Ámbos / Los / Cada (uno de)} libros es PRED

{Most / Both / The / Each (one of the)} books is pred

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusio
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## **Subjects**

- The best results are obtained with *counting* quantifiers involving (possibly modified) numerals:
  - (22) {Más de / Menos de / Unos } cuatro libros es pred
     {More than / Less than / Some } four books is pred

## Subjects



(23) a. Leer y resumir un libro { \*es.SG / son.PL } dos cosas differentes

'Reading and summarizing a book are two different things'

b. Leer y resumir un libro { es.SG / \*son.PL } mucho trabajo 'Reading and summarizing a book is a lot of work'

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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Trope-like DPs too:

Subjects

(24) a. La lectura y la presentación del libro { \*es.SG / son.PL } dos cosas differentes

Lit.: 'The reading and the commenting of a book are two different things'

b. La lectura y la presentación del libro { es.SG / \*son.PL } mucho trabajo

Lit.: 'The reading and the commenting of a book is a lot of work'
Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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So far					

- Predicates:
  - The best NADPs are formed by *predicative copular* clauses with some form of degree predicate (i.e. *too, enough, more, -est, as...as,* etc.).
  - However, adjectives (also predicative copular) do count as NADPs (i.e. there is no positive form).
  - The degree predicate may optionally come overtly restricted by a noun, typically an abstract mass noun like *weight, work, effort, distance, amount, entertainment...*

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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- Predicates:
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  - The degree predicate may optionally come overtly restricted by a noun, typically an abstract mass noun like *weight, work, effort, distance, amount, entertainment...*
- Subjects:
  - Numerals, modified or not, form the best subjects of NADPs.
  - Definite descriptions referring to abstract nouns work well.
  - Nonfinite clauses may also appear as subjects of NADPs. However:
    - Nonfinite clauses are OK with adjective (e.g. (23a) with *difficult*).
    - Agreement patters of nonfinite clauses in subject position have their own quirks.

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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Seman	tics				

What is the meaning of (9b) and how is it different from (9a)?

- (9) a. Tres libros son demasiados 'Three books are too many'
  - b. Tres libros es demasiado 'Three books is too much'
- Intuitively, (9a) is about books, (9b) is about something else:
  - For a writer who signed a contract, it could be work, commitment, effort...
  - For pre-schooler who has to carry them it could be too much weight.
  - For B&N executive it could be too many to give away.
  - For a struggling worker it could be too expensive.

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Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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Semant	tics				

- The ingredients of a NADP seem to include:
  - 1. A (possibly covert) noun providing a dimension.
  - 2. A degree predicate expressing a comparison to some degree on that dimension.
    - In comparatives, one term of the comparison is provided by the standard.
    - In assetives, excessives, by a conventionalized threshold.
    - In equatives by the complement of *as*.
  - 3. A subject that acts as a **measuring unit**; i.e. it provides the measure that must interpreted on the scale built upon the dimension.

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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Semant	tics				

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    - In assetives, excessives, by a conventionalized threshold.
    - In equatives by the complement of *as*.
  - 3. A subject that acts as a **measuring unit**; i.e. it provides the measure that must interpreted on the scale built upon the dimension.
- Consider:
  - Three kilos is too much weight Three kilo-units exceed some threshold of weight.
  - Three books is too much weight Three book-units exceed some threshold of weight.

Motivation 000000	Distribution 0000000000000	Semantics 00●0	NADPs 000000000000000000000000000000000000	Cross-linguistic connections	Conclusion
Seman	tics				

• This is not to say that such constructions are allowed syntactically:

(25) a. Tres kilos de peso
Lit.: 'three kilos of weight'
b. \* Tres libros de peso
Lit.: 'Three books of weight'

(26) a. a weight of three kilosb. \* a weight of three books

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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Seman	tics				

- It (perhaps) provides a way to think about why there is no "positive" form:
  - (27) a.  $[three kilos is weight]^c \approx the weight determined by three kilos is weight$ 
    - b. [[three books is weight]]  $^c \approx$  the weight determined by three books is weight

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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Seman	tics				

- It (perhaps) provides a way to think about why there is no "positive" form:
  - (27) a.  $[three kilos is weight]^c \approx the weight determined by three kilos is weight$ 
    - b. [[three books is weight]]  $^c \approx$  the weight determined by three books is weight
- Since these measuring units are by definition contextual (non-conventional) there can't be a standard of comparison for a positive form to supply. (I.e. perhaps we don't have standards of weight *measured in books*, only measured in conventional units.)

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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Founda	ations				

- Degrees are primitives, atomic types in the model (of type *d*).
- A scale is a tuple (D<sub>△i</sub>, ≥<sub>△i</sub>) including a set of degrees D<sub>△i</sub> along some dimension △ and an ordering relation ≥<sub>△i</sub>.
- The task of the ordering relation is to impose some restrictions on the types of sets of degrees that may constitute a scale:
  - (28) **Definition of scale**: A set of degrees  $\mathcal{D}$  with the ordering relation  $\geq$  is a scale *iff*  $\forall d, d' \in \mathcal{D}$ :
    - a.  $d \ge d' \lor d' \ge d$  linearity

**b.** 
$$d \ge d' \to \exists d'' \in \mathcal{D}[d \ge d'' \land d'' \ge d']$$
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Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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Founda	tions				

- The ordering relation must "make sense" given the set of degrees it orders. Each scale must be matched to a dimension △ of measurement. This comes with two important consequences:
  - COMMENSURABILITY Degrees cannot be compared across-scales, because no degrees on different scales are ordered with respect to each other (Kennedy and McNally 2005).
    - (29) They call him "The Bus" because he's kind of ...
      - a. as wide as he is tall.
      - b. # as wide as he is punctual.
  - Congruence

Units of measurements can only refer to degrees (i.e. points on a scale) that match the underlying dimension they are *conventionally* determined to measure.

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Gradab	oility				

(30) Sam is tall.

• Gradable adjectives like "tall" denote relations between individuals and degrees (Seuren 1973, Cresswell 1976, Klein 1980, 1991, von Stechow 1984, Heim 1985, Bierwisch 1989...).

(31)  $\llbracket tall \rrbracket = \lambda d \cdot \lambda x \cdot \mu_{HEIGHT}(x) = d$ 

• Degree morphology (e.g. POS, comparatives, degree modifiers) saturate and impose restrictions on the degree argument.

$$\begin{array}{l} (32) \quad \llbracket \mathsf{POS} \rrbracket^c = \lambda G_{\langle d, et \rangle} \cdot \lambda x_e \cdot \exists d \llbracket G(x) = d \land d > ST_C(G) \rrbracket \\ (33) \quad \llbracket (30) \rrbracket^c = \exists d \llbracket \mu_{\mathsf{HEIGHT}}(\mathsf{sam}) = d \land d > ST_C(\mathsf{tall}) \rrbracket \end{array}$$

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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Thresho	olds				

- Excessives and assetives establish a comparison to a conventionally determined **threshold**, not a standard:
  - (34) a.  $\llbracket too \rrbracket^c = \lambda G_{\langle d, et \rangle} \cdot \lambda x_e \cdot \exists d [G(x) = d \land d > TH_C^{max}(G)]$ b.  $\llbracket enough \rrbracket^c = \lambda G_{\langle d, et \rangle} \cdot \lambda x_e \cdot \exists d [G(x) = d \land d \ge TH_C^{min}(G)]$

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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b.  $\llbracket \operatorname{enough} \rrbracket^c = \lambda G_{\langle d, et \rangle} \cdot \lambda x_e \cdot \exists d [G(x) = d \land d \ge TH_C^{min}(G)]$ 

(35) a. # Sam is tall<sub>ST</sub> {but not tall<sub>ST</sub> / she's tall<sub>ST</sub> in fact}.

- b. Sam is  $tall_{ST}$  {but not too  $tall_{TH}$  / too  $tall_{TH}$  in fact}.
- c. Sam is  $tall_{ST}$  {but not  $tall_{TH}$  enough /  $tall_{TH}$  enough in fact}.

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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b.  $\llbracket \text{enough} \rrbracket^c = \lambda G_{\langle d, et \rangle} \cdot \lambda x_e \cdot \exists d [G(x) = d \land d \ge TH_C^{min}(G)]$ 

(35) a. # Sam is tall<sub>ST</sub> {but not tall<sub>ST</sub> / she's tall<sub>ST</sub> in fact}.

- b. Sam is  $tall_{ST}$  {but not too  $tall_{TH}$  / too  $tall_{TH}$  in fact}.
- c. Sam is  $tall_{ST}$  {but not  $tall_{TH}$  enough /  $tall_{TH}$  enough in fact}.
- If Sam is 40 but discounts are only available for kids under 12 and seniors above 70, then Sam is too old and too young to get a discount:

(36)  $\exists d[\mu_{AGE}(sam) = d \land d > TH_C^{max}(old) \land d > TH_C^{max}(young)]$ 

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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#### Base case



• PL agreement only allows an interpretation were *three books* are too many *books*. We use an individual measurement operator *M* and assume an elided nominal.

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#### Base case

(38) 
$$\llbracket M \rrbracket = \lambda P_{\langle et \rangle} \cdot \lambda n_d \cdot \lambda x_e \cdot P(x) \wedge |x| = n$$
  
(39)  $\llbracket (37) \rrbracket^c \Leftrightarrow \exists x [libros(x) \wedge |x| = 3 \wedge 3 > TH_c^{max}(|x|)]$ 

- Numerals are modifiers:  $[NP]^c = \lambda x_e$ . libros $(x) \land |x| = 3$ .
- The NP is lifted to a GQ type *via* A (Partee 1987; CFs work too).
- The semantics of *too* is possibly not accurately represented (see Zhang 2018 and Grano 2022 for discussion).

Motivation Distrib	oution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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## NADP case: Take I



Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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NADP	case: Take I				

(41)  $\llbracket \text{DegP} \rrbracket^c = \lambda x_e . \exists d [\mu_{\text{weight}}(x) = d \land d > TH_c^{max}(\text{weight})]$ 

• If we proceed as before...

(42)  $\llbracket (40) \rrbracket^c \Leftrightarrow \exists x [libros(x) \land |x| = 3 \land \exists d [\mu_{WEIGHT}(x) = d \land d > TH_c^{max}(WEIGHT)]]$ 

- This is not quite right:
  - we don't want to commit ourselves to existential quantification over books.
  - more generally, this is a statement about *books*. But *three books is too much weight* is not a statement about books, it's a statement about *weight* (using books as weight units).
  - it doesn't account for why adjectives are not good NADPs.

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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# NADP case: Take I

#### (43) a. Three books is too much work.

b. 
$$[(43a)]^c \Leftrightarrow \exists x [books(x) \land |x| = 3 \land \exists d [\mu_{WORK}(x) = d \land d > TH_c^{max}(WORK)]]$$

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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## NADP case: Take I

- (43) a. Three books is too much work.
  - b.  $\llbracket (43a) \rrbracket^c \Leftrightarrow$  $\exists x [books(x) \land |x| = 3 \land$  $\exists d [\mu_{WORK}(x) = d \land d > TH_c^{max}(WORK)]]$
- (44) a. Three books is more work than I did d-much work
  - b.  $[(44a)]^c \Leftrightarrow \exists x [books(x) \land |x| = 3 \land Max(\lambda n'.work(x) \land \mu_{WORK}(x) = n') > Max(\lambda d. \exists y [work(y) \land I did d-much y])]$

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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NADP	case: Take I				

- How can we rule out (45a) but not (46a)? Why isn't whatever sanctions (46a) available to (45a)?
  - (45) a. \* Three books is heavy.

D. 
$$[[(43a)]^c \Leftrightarrow \exists x [books(x) \land |x| = 3 \land \exists d [\mu_{weight}(x) = d \land d > ST_c(weight)]]$$

(46) a. Three books is a lot of weight.

b. 
$$[[(43a)]]^c \Leftrightarrow \exists x [books(x) \land |x| = 3 \land \exists d [\mu_{weight}(x) = d \land d > TH_c^{max}(weight)]]$$

Motivation 000000	Distribution 0000000000000	Semantics 0000	NADPs 000000000000000000000000000000000000	Cross-linguistic connections	Conclusion
NADP	case: Take II				

• A simple idea: subjects of NADPs cannot simply denote fully extensional objects. Instead they denote nominalized functions (*à la* Chierchia 1985):

(47) If  $\beta$  is a *n*-place predicative expression,  $^{\cap}\beta$  is a singular term.

 This is the nominalization operator in its most general form: unlike in Chierchia (1998), <sup>∩</sup>f is defined for all f ∈ D<sub>(στ)</sub>, so they can but need not be kinds:

As is clear from the previous discussion, not any old property will have a corresponding kind. The property of being a broken old shoe that Leo left behind is unlikely to have a corresponding kind.

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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INAUP	case: Take II				

• A simple idea: subjects of NADPs do not denote ordinary extensional objects. Instead they denote nominalized functions (*à la* Chierchia 1985):

(48)  $\bigcap [three books]^c = \lambda x_e \cdot book(x) \land |x| = 3$ the individual correlate of the property of being three books

- A nominalization of *three books* is the entity correlate of the property *something* holds when it is three books.
- Since that *something* is three books, that *something* shares all qualities of three-book individuals (and has none of non-three-book individuals).
- Whether entity correlate have or not property *P* depends however on the fate and composition of its extensional instances.

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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# NADP case: Take II

(49) 
$$\llbracket (40) \rrbracket^c \Leftrightarrow \exists d [\mu_{\mathsf{WEIGHT}} (^{\cap} \lambda x_e . \mathsf{book}(x) \land |x| = 3) = d \land d > TH_c^{max}(\mathsf{WEIGHT})]$$

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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#### NADP case: Take II

(49) 
$$\llbracket (40) \rrbracket^c \Leftrightarrow \exists d [\mu_{\mathsf{WEIGHT}} (^{\cap} \lambda x_e . \mathsf{book}(x) \land |x| = 3) = d \land d > TH_c^{max}(\mathsf{weight})]$$

- Obes it makes sense to say that an entity correlate may be an argument of a measure function?
  - We no longer have a statement about books but about weight.
  - We are no longer committed to the existence of books.

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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NADP	case: Take II				

**?** Does it makes sense to say that an entity correlate may be an argument of a measure function? (I.e.:  $\mu_{WEIGHT}(^{\cap}\lambda x_e \cdot book(x) \land |x| = 3)$ ?)

Motivation 000000	Distribution 0000000000000	Semantics 0000	NADPs 000000000000000000000000000000000000	Cross-linguistic connections	Conclusion
NADP of	case: Take II				

- **?** Does it makes sense to say that an entity correlate may be an argument of a measure function? (I.e.:  $\mu_{WEIGHT}(^{\cap}\lambda x_e \cdot book(x) \land |x| = 3)$ ?)
  - Let's compare with adjectives:
    - Adjectival predicates denote relations between degrees and ordinary (extensional) individuals on a *conventionally* determined dimension.

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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NADP	case: Take II				

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  - Let's compare with adjectives:
    - Adjectival predicates denote relations between degrees and ordinary (extensional) individuals on a *conventionally* determined dimension.
    - NADPs involve nominals directly denoting the dimension. This has the effect of allowing us greater flexibility in terms of the units of measurement that we might deploy to build a scale on the basis of that dimension.

Motivation 000000	Distribution 0000000000000	Semantics 0000	NADPs 000000000000000000000000000000000000	Cross-linguistic connections	Conclusion
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    - NADPs involve nominals directly denoting the dimension. This has the effect of allowing us greater flexibility in terms of the units of measurement that we might deploy to build a scale on the basis of that dimension.
  - Two different tasks:
    - Adjectives *place* individuals on a scale by attributing them a degree along a dimension.
    - NADPs *use* individuals to exemplify a degree on a scale along the required dimension.

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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- **?** Does it makes sense to say that an entity correlate may be an argument of a measure function? (I.e.:  $\mu_{WEIGHT}(^{\cap}\lambda x_e . book(x) \land |x| = 3)$ ?)
- Let's compare with adjectives:
  - Adjectival predicates denote relations between degrees and ordinary (extensional) individuals on a *conventionally* determined dimension.
  - NADPs involve nominals directly denoting the dimension. This has the effect of allowing us greater flexibility in terms of the units of measurement that we might deploy to build a scale on the basis of that dimension.
- Two different tasks:
  - Adjectives *place* individuals on a scale by attributing them a degree along a dimension.
  - NADPs *use* individuals to exemplify a degree on a scale along the required dimension.
- This is better represented in (49) vis-à-vis (40).

Motivation 000000	Distribution 00000000000000	Semantics 0000	NADPs 00000000000000000000000	Cross-linguistic connections	Conclusion
NADP	case: Take II				

- Some other advantages: cases with non-finite subjects are straightforward:
  - (50) a. Leer el Quijote es demasiado. 'To read El Quijote is too much' b.  $\mu_{\text{DIM}}(^{\cap}\lambda e_{\nu} \cdot \text{read}(e) \wedge Th(e) = \text{EQ}) = d \wedge d > TH_{c}^{max}(\text{DIM})$

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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NADP	case: Take II				

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- The semantic equivalence between (50) and (51) follows easily:
  - (51) La lectura del Quijote es demasiado. 'The reading of El Quijote is too much'

Motivation 000000	Distribution 0000000000000	Semantics 0000	NADPs 0000000000000000000●	Cross-linguistic connections	Conclusion

NADP case: Take II

- SG agreement in NADPs is also less mysterious:
  - $\varphi$ -morphology on the subject is "encapsulated" inside it's own phrase due to nominalization.
  - $\circ~$  This renders its  $\varphi$ -features opaque for other predicates in the clause, triggering neuter/default agreement.
- SG is not indicative of polysemy or coercion, but of nominalization.

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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NADP case: Take II

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  - This renders its  $\varphi$ -features opaque for other predicates in the clause, triggering neuter/default agreement.
- SG is not indicative of polysemy or coercion, but of nominalization.
- Finally, we also gain some insight on why strong quantifiers do not form good NADP subjects: they can't nominalize easily.

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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#### Pancake constructions

- In Scandinavian (Swedish, Norwegian, Danish), predicative adjectives normally agree with the subject in terms of gender and number (data from Haugen and Enger 2019; their glosses).
  - (52) Pannekaker er gode pancake.f.def.pl be.prs good.f.pl 'The pancakes are good'
- This agreement pattern is sometimes disrupted, with interesting *seman- tic* consequences:
  - (53) Pannekakene er godt pancake.f.INDEF.PL be.PRS good.N.SG 'Pancakes are good'

#### Pancake constructions

we argue that a crucial semantic feature of pancake subjects is absence of boundedness in space, and... we widen the semantic analysis to include constructions where the subject is a de-verbal noun... [we] hypothesize that pancake agreement originated in the semantics of infinitive subjects

[from Haugen and Enger 2019]
#### Pancake constructions

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[from Haugen and Enger 2019]

an example from Swedish is the sentence "Pannkakor är nyttigt", literally translating to "Pancakes is healthy" and meaning "Eating pancakes is healthy."

[from wikipedia]

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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- Modern Hebrew has two major types of copula: PronH (homophonous to nominative 3rd person pronouns) and PronZ (homophonous to demonstratives/impersonal pronouns).
- Unlike PronH, which always agrees, PronZ may surface with default agreement (see Greenberg 2008).
  - (54) yeladim ktanim ze avoda kaša children.M.PL small.M.PL PronZ.M.SG work.F.SG hard.F.SG "Little children is hard work"

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  - (54) *yeladim ktanim ze avoda kaša* children.m.pl small.m.pl PronZ.m.sg work.f.sg hard.f.sg "Little children is hard work"
- The choice of copula has a semantic impact:

for instance, sentence [(54)] means that something related to little children, such as raising them or dealing with them, is hard work—not that children themselves are hard work

[from Danon 2012, 86]

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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- (55) a. *me'a kariyot ze kaved* 100 pillows.F.PL PronZ.M.SG annoying.M.SG '100 pillows is heavy'
  - b. *šney orxim ze me'acben* two guests.M.PL PronZ.M.SG annoying.M.SG 'Two guests is annoying'

thus (55a) cannote mean that there are two specific guests that are annoying and (55b) cannot mean that there are 100 heavy pillows; such readings are only possible with the agreeing copula PronH.

[from Danon 2012, 91]

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusio
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(56) \* rov ha-kariyot ze kaved most the-pillows.F.PL PronZ.M.SG heavy.M.SG Lit.: most pillows is heavy'

this is explained by the fact that... the subjects... cannot receive an interpretation at the type of predicates.

[from Danon 2012, 104]

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#### Questions

3 How general are these alternations?

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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Questic	ons				

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*Very* general across languages, but quite limited in terms on the linguistic contexts in which they may appear; they're limited to certain types of degree predicates **and** certain types of subjects.

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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Questic	ons				

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Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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Is this indicative of some polysemy or systematic denotational ambiguity in nominals?
It does not look like it. If so, why do other types of measuring predicates (e.g. exceed, suffice, measure, etc.) form good NADPs?

What syntactic/semantic principles underlie these alternations?

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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It does not look like it. If so, why do other types of measuring predicates (e.g. *exceed*, *suffice*, *measure*, etc.) form good NADPs?

What syntactic/semantic principles underlie these alternations? These are constructions where a non-conventional unit of measurement is used on a scale formed by a dimension that is directly supplied by either context or an abstract nominal. Motivation Distribution S

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Cross-linguistic connections

Conclusion ○●○○○○

## Making units of measurements

- The ingredients of NADPs include:
  - an overt Degree Predicate, such as a comparative/superlative/...in a predicative copular construction;
  - an often abstract mass noun, complement to the Degree Predicate that denotes a dimension along which the Degree Predicate establishes the relevant comparison;
  - a nominalized property in subject position that acts as a unit of measurement along said dimension.

Motivation Distribution

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Cross-linguistic connections

Conclusion

## Making units of measurements

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  - an often abstract mass noun, complement to the Degree Predicate that denotes a dimension along which the Degree Predicate establishes the relevant comparison;
  - a nominalized property in subject position that acts as a unit of measurement along said dimension.
- This sheds light on:
  - SG agreement:  $\varphi$ -feature encapsulation.
  - The class of subjects: must be able to nominalize.
  - The ban on adjectives: different semantic tasks.
  - The obligatory degree predicate: avoids triviality.

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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No poly	ysemy?				

- Brasoveanu (2009) says we still can get *bona fide* individual/degree polysemy; but the examples are actually not as clear as desired:
  - (57) a. The lump of cheese was two kilograms and Linus ate both of them in one sitting.
    - b. The cable's length was two meters, one of which Megan used to fix the car.
    - c. The milk in the bucket was worth ten dollars, which Gabby tucked away safely in the inner pocket of her jacket.
    - d. The milk cost Gabby the ten dollars Megan had given her.

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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### No polysemy?

- There seems to be better candidates for polysemy:<sup>1</sup>
  - (58) a. The 200 dollars that I've got in my pocket are/is all yours
    - b. The 20M dollars that I've got invested in funds are/is all yours

<sup>&</sup>lt;sup>1</sup>Thanks for Peter Sutton for discussion.

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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## No polysemy?

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  - (58) a. The 200 dollars that I've got in my pocket are/is all yours
    - b. The 20M dollars that I've got invested in funds are/is all yours
- However, co-predication and agreement don't go hand in hand:
  - (59) a. The tenner in my pocket is enough for lunch.
    - b. The fiver in my pocket is enough for two coffees.
    - c. The tenners/fivers I have in my pocket are/#is all yours.

<sup>&</sup>lt;sup>1</sup>Thanks for Peter Sutton for discussion.

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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    - b. The fiver in my pocket is enough for two coffees.
    - c. The tenners/fivers I have in my pocket are/#is all yours.
- This goes against the sentiment often found in the literature that singular agreement in such constructions might be due to coercion of a plural entity into a singular group / amount / kind

[from Brasoveanu 2009]

<sup>&</sup>lt;sup>1</sup>Thanks for Peter Sutton for discussion.

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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No poly	/semy?				

• Moreover, Spanish does not pattern alike, which would be unexpected if being a good subject on NADPs would be indicative of good polysemous status:

(60) Los 20M\$ que invertí en fondos se { \*evaporó.SG / evaporaron.PL } cuando colapsaron los mercados
'The 20M\$ that I had invested in funds were/was wiped out when the markets collapsed

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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No poly	/semy?				

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(60) Los 20M\$ que invertí en fondos se { \*evaporó.SG / evaporaron.PL } cuando colapsaron los mercados
'The 20M\$ that I had invested in funds were/was wiped out when the markets collapsed

It seems that we must dissociate NADP from polysemy; these look like two different phenomena. Motivation 000000 Distribution 0000000000000 Semantics 0000 Cross-linguistic connections

Conclusion 00000●

# Thanks!

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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- Bierwisch, M. (1989). The semantics of gradation. In Bierwisch, M. and Lang, E., editors, Dimensional adjectives: Grammatical structure and conceptual interpretation, pages 71–261. Springer.
- Brasoveanu, A. (2009). Measure noun polysemy and monotonicity: evidence from Romanian pseudopartitives. In Schardl, A., Walkow, M., and Abdurrahman, M., editors, *Proceedings of NELS* 38, pages 139–150.
- Chierchia, G. (1985). Formal semantics and the grammar of predication. *Linguistic Inquiry*, 16(3):417-443.
- Chierchia, G. (1998). Reference to kinds across languages. *Natural Language Semantics*, 6(4):339-405.
- Cresswell, M. J. (1976). The semantics of degree. In Partee, B. H., editor, *Montague grammar*, pages 261–292. Academic Press, New York.
- Danon, G. (2012). Nothing to agree on: non-agreeing subjects of copular clauses in Hebrew. Acta Linguistica Hungarica, 59(1-2):85-108.
- Grano, T. (2022). Enough clauses, (non)finiteness, and modality. *Natural Language Semantics*.
- Greenberg, Y. (2008). Predication and equation in Hebrew (nonpseudocleft) copular sentences. In Armon-Lotem, S., Danon, G., and Rothstein, S., editors, *Current Issues in Generative Hebrew Linguistics*, pages 161–196. John Benjamins.
- Haugen, T. A. and Enger, H.-O. (2019). The semantics of Scandinavian pancake constructions. *Linguistics*, 57(3):531–557.

Motivation	Distribution	Semantics	NADPs	Cross-linguistic connections	Conclusion
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- Heim, I. (1985). Notes on comparatives and related matters. Manuscript, University of Texas at Austin.
- Kennedy, C. and McNally, L. (2005). Scale structure, degree modification and the semantics of gradable predictes. *Language*, 81(2):345–381.
- Klein, E. (1980). A semantics for positive and comparative adjectives. *Linguistics and Philosophy*, 4(1):1–45.
- Klein, E. (1991). Comparatives. In von Stechow, A. and Wunderlich, D., editors, Semantik/semantics: An international handbook of contemporary research, pages 673–691. de Gruyter, Berlin.
- Partee, B. (1987). Noun phrase interpretation and type-shifting principles. *Studies in* Discourse Representation Theory and the theory of generalized quantifiers, 8:115–143.

Rett, J. (2014). The polysemy of measurement. Lingua, 143:242-266.

- Seuren, P. A. M. (1973). The comparative. In Kiefer, F. and N., R., editors, *Generative grammar in Europe*, pages 528–564. Reidel, Dordrecht.
- von Stechow, A. (1984). Comparing semantic theories of comparison. *Journal of Semantics*, 3(1-2):1-77.
- Zhang, L. (2018). *Enough, too,* and causal dependence. In Sauerland, U. and Solt, S., editors, *Proceedings of Sinn und Bedeutung 22*, volume 2, page U. Sauerland and S. Solt.