

# An Agreement Mismatch with Outstanding Problems

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# 1 Introduction

- Joint work with Chris Lucas (SOAS).
- Chomsky on levels of adequacy and the goals of linguistic theory:
  - Observational
  - Descriptive
  - Explanatory
- What good linguistics should look like:
  - detailed, accurate descriptions of phenomena in individual languages
  - accompanied by descriptively satisfying analyses properly formalised accounts

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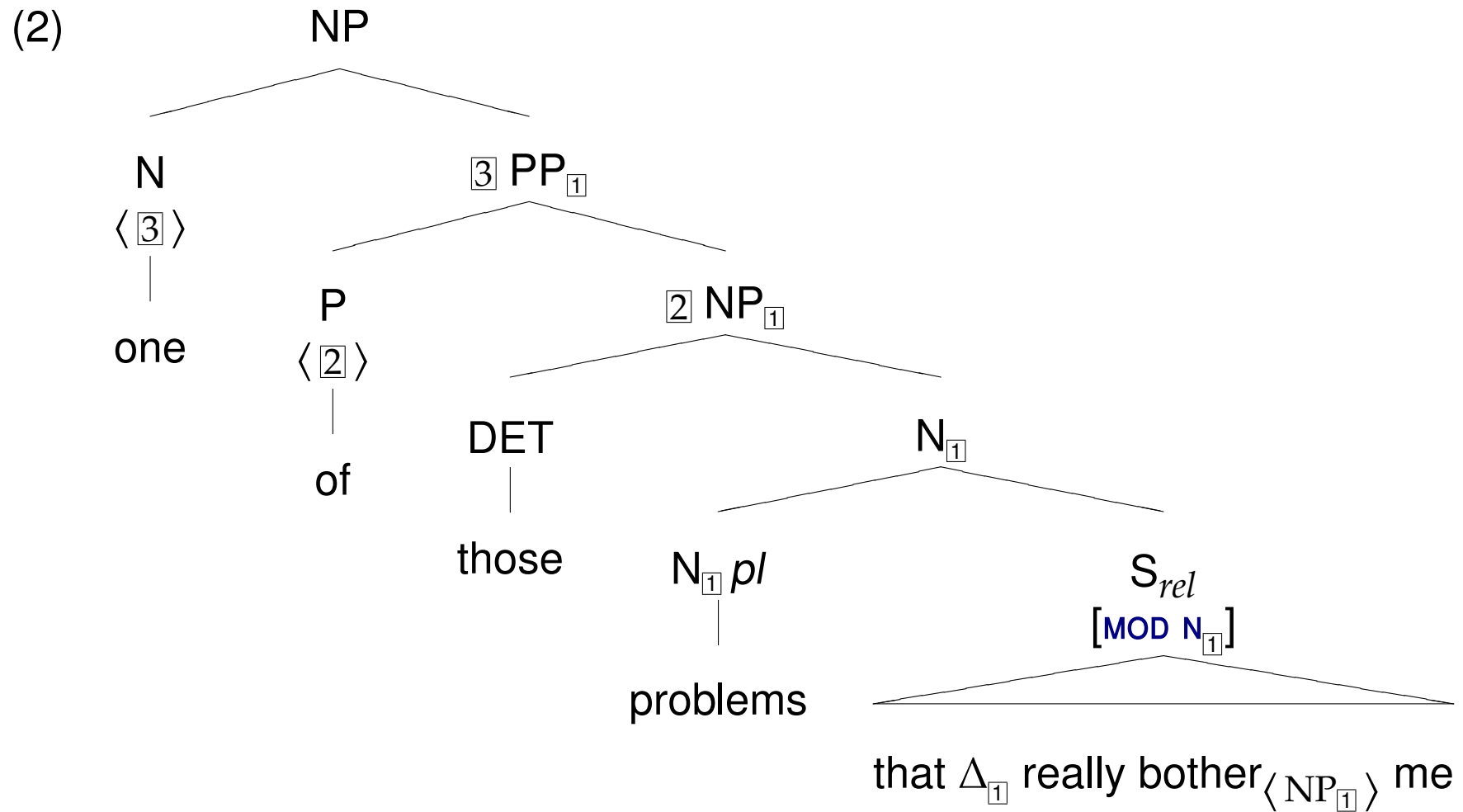
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## 2 Phenomenon

- (1) is a perfectly normal example of a restrictive relative in a partitive NP, for which (2) is a plausible representation:

(1) This is *one of those problems that really bother me*.

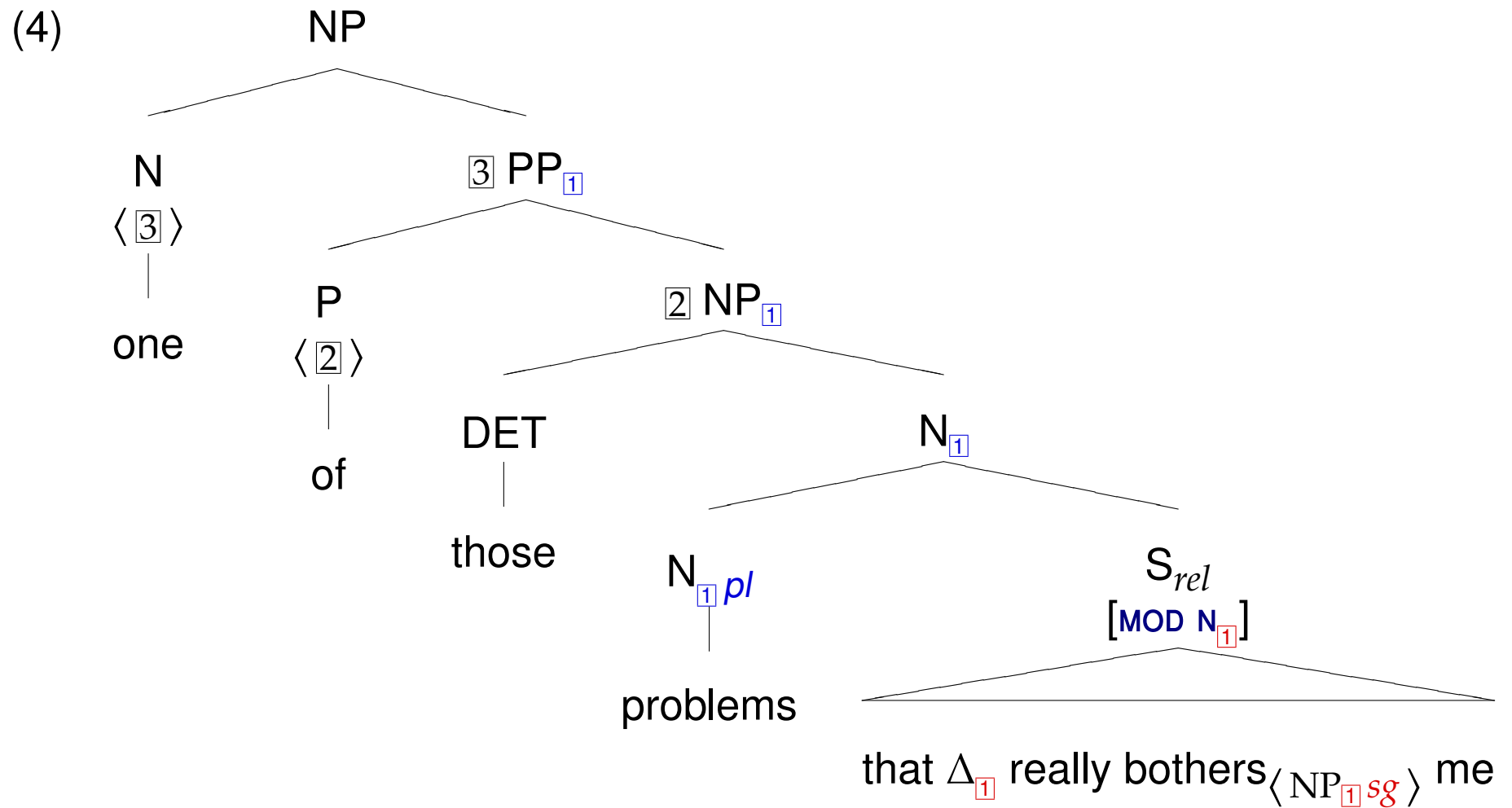
- I assume that the quantity word *one* is the nominal head which selects a non-predicative PP complement headed by *of* (Kim (2002), Flickinger (2008), Kim and Sells (2008)); I assume the analysis of relative clauses essentially as in Sag (1997).
- I assume indices are collections of features, including a **NUMBER** feature.



- However, alongside (1), we also find examples like (3), which involve an agreement ‘mismatch’ between the Relative and the nominal it appears to modify:

(3) This is **one of those problems that really bothers me**.

- In (3) **bothers** is singular (requires a singular subject), which means the relative clause must be singular (adjunct of a singular nominal). So in (4), ① must be at once *singular*, and *plural*, which is impossible.





- Examples like (3) are very common – in fact more common than examples that show ‘normal’ agreement, even in writing. Searching google books for *one of the things that bother(s) me* gives about 5860 results for the mismatch form *bothers*, compared to 698 for *bother*).
- Some examples from the BNC are given in (5).

- (5) a. Dr Hemingway and colleagues [. . .] have also found one of the **genes** that **makes** malaria-transmitting mosquitoes resistant to pesticides such as DDT. [AKD/871]
- b. This generation of vipers has again bitten one of the **hands** that **was** stretched out in blessing it. [B1J/1984]
- c. They raised one of the **questions** that **has** been consistently debated.
- d. He will try to train one of **the dogs** that **has** been brought in today.
- e. This outstanding work [. . .] is one of the best **books** on economics and sustainable development that **has** ever been published.
- f. The Cullen report is widely recognised as one of the most excellent **reports** that **has** ever been produced on matters that affect industrial safety. [HHX/19354]
- g. It was, and remains, one of the best **goals** that **has** ever been scored at Carrow Road. . . [Edward Couzens-Lake, *Norwich City in the Eighties*, Amberley Pub., Stroud, 2015]

- It is hard to argue that (3) are ungrammatical – this ‘mismatch’ construction seem to be fully part of English.
- There is evidence for a similar construction in at least Maltese, Spanish, and Dutch.
- The construction has sometimes been mentioned in the literature (e.g. [Huddleston and Pullum \(2002:p506\)](#), [Pinker \(2014:p250\)](#)) and in some prescriptive grammars (e.g. [Burchfield \(2004:p30,550\)](#)). [de Hoop et al. \(n.d.\)](#) is a formal analysis of a similar construction in Dutch.
- This construction seems to pose a fundamental problem for existing theories of agreement (e.g. in HPSG [Pollard and Sag \(1994\)](#), [Kathol \(1999\)](#), [Wechsler and Zlatić \(2003\)](#), ...).
- [Arnold and Lucas \(2016\)](#) suggest an HPSG analysis for the construction. But there are problems.

- Arnold and Lucas (2016) provide a relatively detailed discussion of the construction, and consider (and reject) a number of potential approaches.
- ('acceptable ungrammaticality')
- pretending that the NP *those problems* is singular...
- analysing the PP *of those problems* as singular...
- pretending that the Relative is really plural...
- exploiting the difference between CONCORD and INDEX agreement...
- using something like the 'restriction' operator of LFG (Kaplan and Wedekind, 1993)...
- reducing the mismatch to one of the other more familiar agreement mismatches...
- assigning a different structure from that in (4)...

- ‘Respecification’ (Huddleston and Pullum (2002:p354); also Maekawa (2015), and other cases of in Pollard and Sag (1994:Ch2))

(6) [That ten days we spent in Florida] **was** fantastic.

(7) [Whoever’s dogs are running around outside ] **is** in big trouble.

(8) [The hash browns at table nine] **is** getting impatient/**are** getting cold.

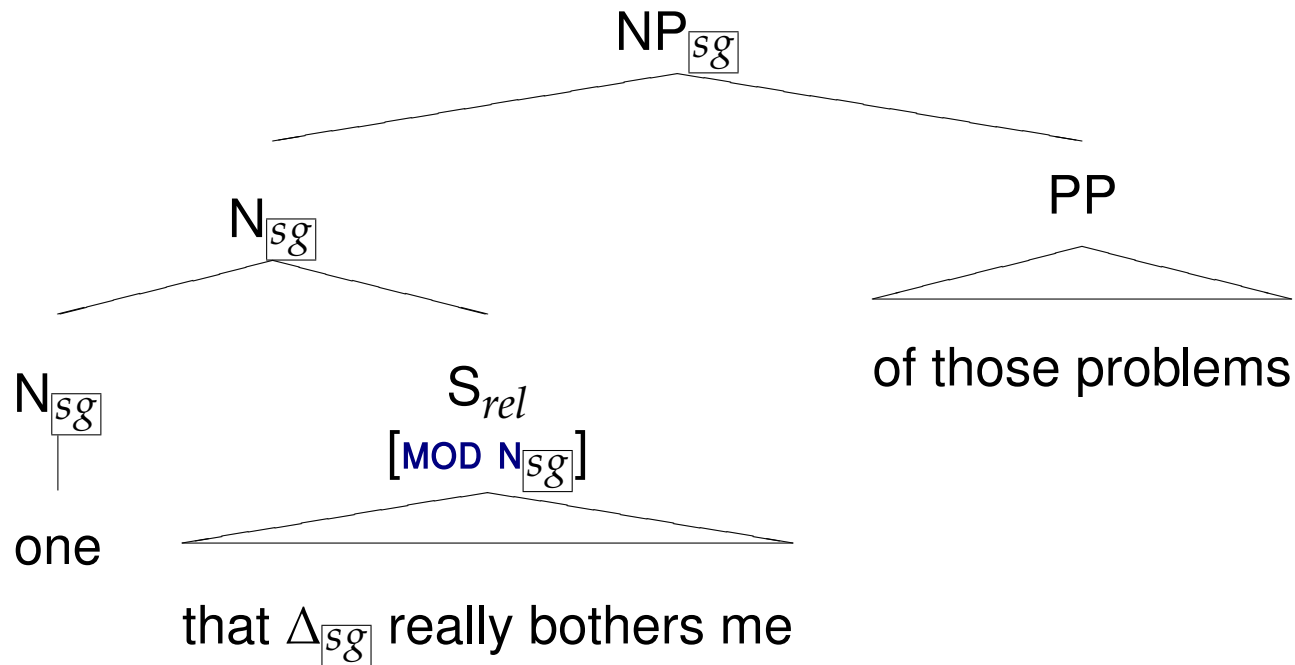
- Pseudo-partitives (measure phrases)

(9) a. That pile<sub>sg</sub> of problems<sub>pl</sub> that has<sub>sg</sub> puzzled people down the ages...

b. That pile<sub>sg</sub> of problems<sub>pl</sub> that have<sub>pl</sub> puzzled people down the ages...

- Perhaps the Relative is modifying *one* (which is singular):

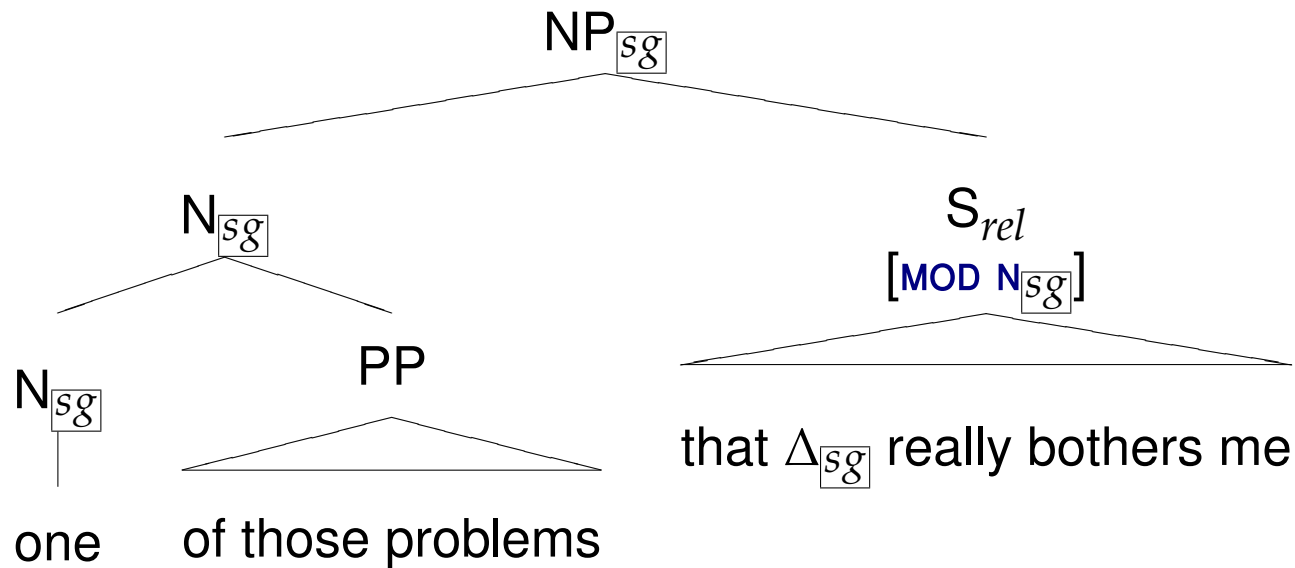
(10)



(11) This is one (that really bothers me) of those problems

- Perhaps the Relative is modifying *one of those problems* (which is singular):

(12)



(13) This is one of those problems (and it really bothers me).

- Neither of these structures can be right.
- They will give the wrong semantics: the semantics involves one of a collection of *problems that bother me* (not a set of problems, one of which bothers me)



- Consider the interpretation of the pronoun *them* in (14):

(14) This is one of those problems that really bothers me.  
I wish I could ignore *them*.

- *Them* = ‘the problems that really bother me’

- *Them* ≠ ‘the problems’

(15) This is one (that really bothers me) of those problems.  
I wish I could ignore *them*. (*them*=‘problems’)

(16) This is one of those problems (and it really bothers me).  
I wish I could ignore *them*. (*them*=‘problems’)

(17) This is a problem that really bothers me. #I wish I could ignore *them*.

- The mismatch construction introduces a plurality of ‘problems that bother me’ into the discourse (not just a plurality of problems).
- This requires the Relative to attach ‘low’ (i.e. to *(those) problems*)

- Superlative adjectives create contexts which permit NPIs like *ever* in their scope:

- (18) a. the most impressive goals that have ever been scored here  
b. \*the impressive goals that have ever been scored here

- (19) a. one of the most impressive goals that have ever been scored here  
b. \*one of the impressive goals that have ever been scored here

- NPIs are permitted in ‘mismatch’ relatives in the same way

- (20) a. one of the most impressive *goals* that *has* ever been scored here  
b. \*one of the impressive *goals* that *has* ever been scored here

- The Relative is interpreted attached ‘low’ – somehow in the scope of the superlative, like other modifiers of the downstairs noun (i.e. *problems*) .

- There are no restrictions on the kind of relative clause that is possible in the mismatch construction.

- Relatives involving *which* and other relative pronouns are possible:

- (21) a. This is one of those *problems* which really *bothers* me.  
b. She is one of those *people* who really *annoys* me.

- The relativized NP need not be a ‘top-level’ subject:

- (22) a. one of those *problems* that [we think [ $\Delta_i$  *deserves* urgent attention]]  
b. one of those *problems* which<sub>i</sub> [we think [ $\Delta_i$  *deserves* urgent attention]]

- Examples involving non-subject relatives can also be found:

- (23) a. This is one of those **numbers** (that) you can add  $\Delta_i$  to **itself**<sub>*i*</sub> to get an interesting result.  
b. He is one of those **people** (who<sub>*i*</sub>) you should leave  $\Delta_i$  strictly to **himself**<sub>*i*</sub>.  
c. He is one of those **patients** (who<sub>*i*</sub>) you can't understand  $\Delta_i$  until you have met **his**<sub>*i*</sub> mother.

- Bare relatives are possible:

- (24) This is one of those **problems** [we think [ $\Delta_i$  **deserves** urgent attention]].

■ Examples with pied-piping, and non-finite relative clauses:

- (25) a. He's one of those **people** [about whom<sub>i</sub>] even **his<sub>i</sub>** best friends have reservations.  
b. He's one of those **candidates** [about whose<sub>i</sub> electoral prospects] not even **his<sub>i</sub>** strongest supporters could be certain.  
c. He may turn out to be one of those **musicians** [whose<sub>i</sub> appeal] is only clear when you actually see **him<sub>i</sub>** live.
- (26) a. His sister had married one of the first **merchants** [to establish **himself** as a plantation owner in Virginia].  
b. The Weisswurst is one of those **sausages** [intended to be eaten without **its** skin].

- The presence of *one* is crucial to the construction:

- The construction is impossible without *one*:

- (27) a. \*those problems that really bothers me  
b. those problems that really bother me

- Other quantity words do not allow the construction:

- (28)  $\left\{ \begin{array}{l} *Two \\ *Some \\ *Many \\ *All \\ *None \end{array} \right\}$  of the problems that bothers you have been solved.

- Partitive *one* seems to license a singular relative clause modifying a plural partitive;

(29) This is one of those *problems*<sub>pl</sub> [that  $\Delta_{sg}$  really *bothers* me].

- What we would like is a way of ‘pluralising’ the relative – but this is *difficult*...

- Singular vs plural is not just a morphosyntactic matter (e.g. [Kamp and Reyle \(1993\)](#), [Winter and Scha \(2015\)](#) and references there);
- We have to distinguish plural individuals from ordinary singular ones (cf. the way indices are treated in HPSG)
- We have to distinguish plural predicates from ordinary singular ones:

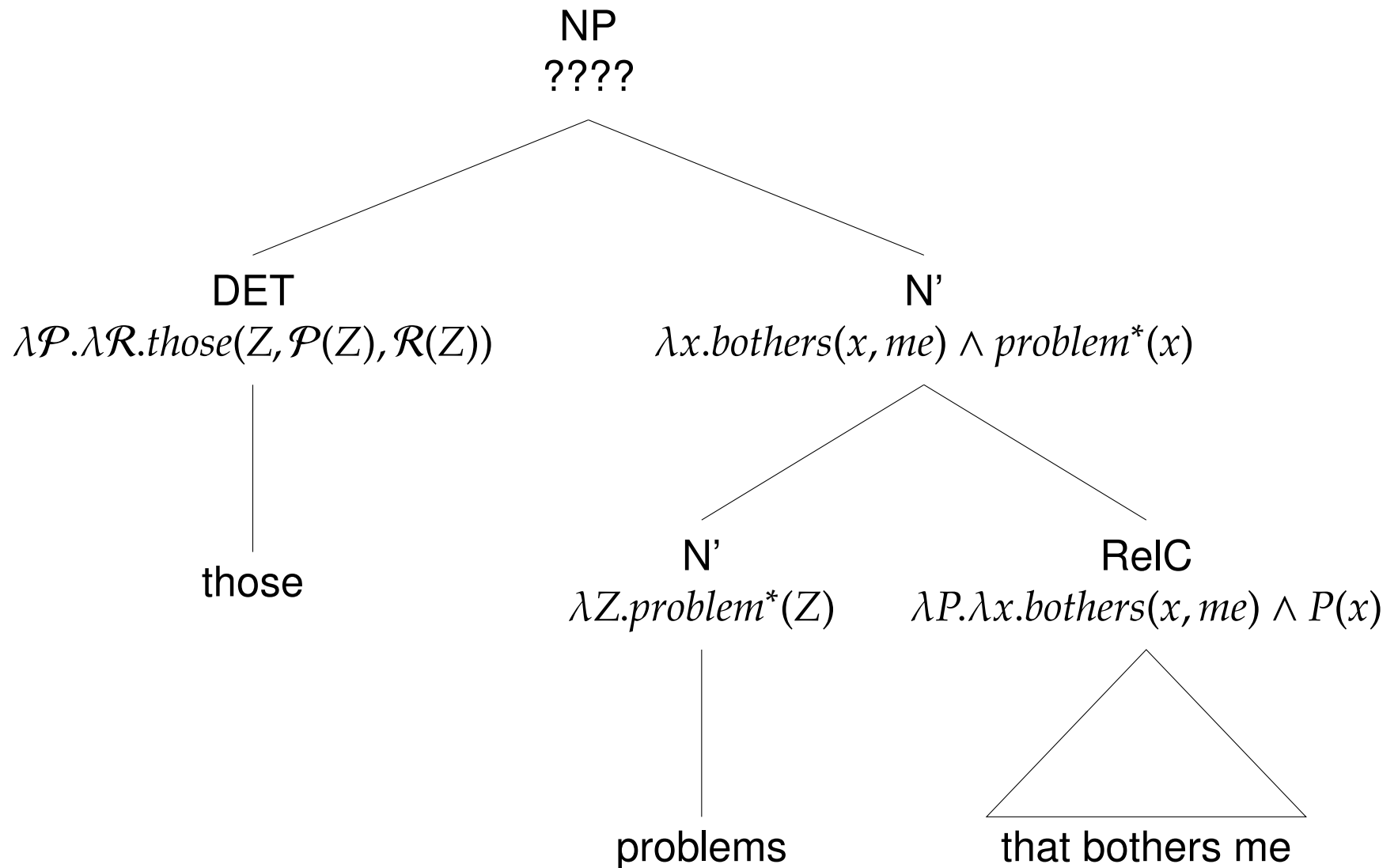
- (30) a. No problem that fixes itself bothers me.  
b.  $\neg \exists x [problem(x) \wedge fixes(x, x) \wedge bothers(x, me)]$

- (31) a. No problems that fix themselves are bothering me.  
b.  $\neg \exists X [problem^*(X) \wedge fix^*(X, X) \wedge bother^*(X, me)]$   
c.  $\neg \exists X [problems(X) \wedge fix(X, X) \wedge bother(X, me)]$



(32) This is one of those problems that really bothers<sup>s</sup> me.

(33)



- Singular relatives involve singular indices *and* singular predicates – it's not enough to 'change the indices': 'pluralizing' a relative poses a serious formal challenge.

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## 3 Analysis

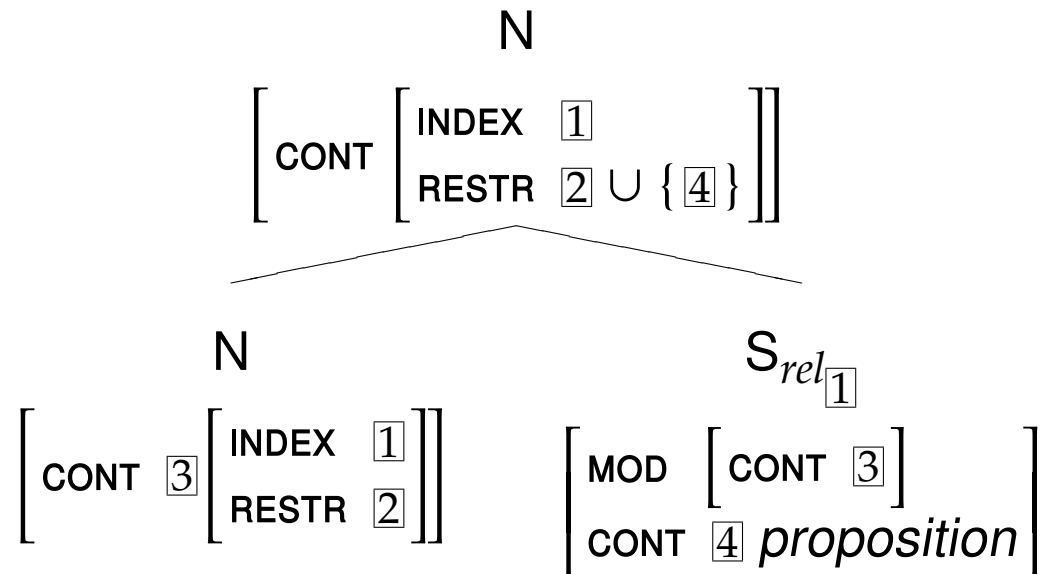
- We want the analysis to be:
  - Precise;
  - Formalised;
  - If possible, conservative – compatible with existing theory and analyses;
- Suggestion: partitive *one* can license a singular relative clause.

## 3.1 Background

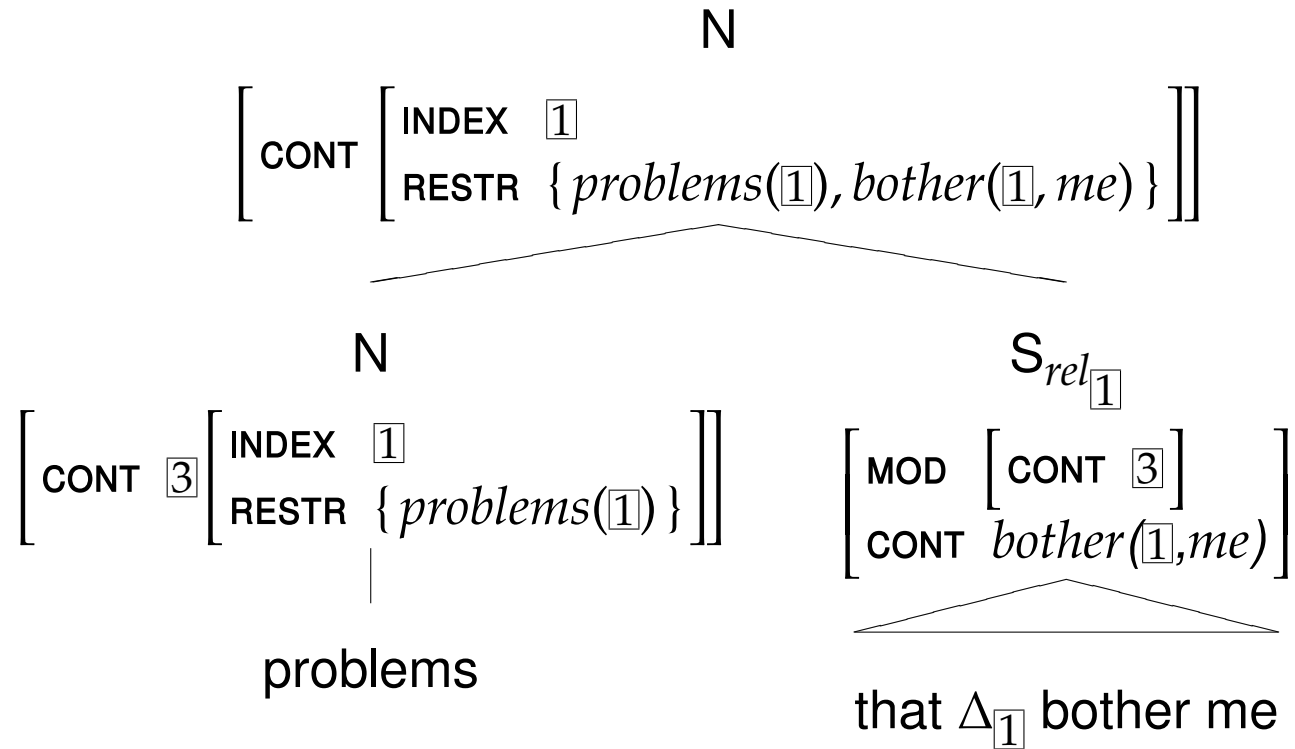
- Sag (1997)'s constructional analysis:
  - A relative clause is a clause with a REL value – the referential index of the relative pronoun;
  - when a relative clause modifies a nominal whose index is [1] and whose restrictions are [2]:
    - ▶ the REL value is unified with the index of the index of the nominal
    - ▶ the result is a nominal whose index is [1], and whose restrictions are [2] plus the propositional content of the relative clause.



(34)



(35)



(36)  $\lambda Q \lambda Y. Q(Y) \wedge \text{bother}^*(Y, \text{me})$

## Normal Partitive *one*

- A lexical entry for normal partitive *one* (as in *one of the problems*).

$$(37) \left[ \begin{array}{c} \text{SS} \mid \text{LOC} \left[ \begin{array}{c} \text{CONT} \left[ \begin{array}{c} \text{one-part-rel} \\ \text{INDEX } \boxed{x} \left[ \text{NUM } \text{sg} \right] \\ \text{RESTR } \left\{ \boxed{x} \in \boxed{X} \right\} \cup \boxed{R} \end{array} \right] \\ \text{ARG-ST} \left\langle \begin{array}{c} \text{LOC} \mid \text{CONT} \left[ \begin{array}{c} \text{npro} \\ \text{INDEX } \boxed{X} \\ \text{RESTR } \boxed{R} \end{array} \right] \end{array} \right\rangle \end{array} \right] \end{array} \right]$$

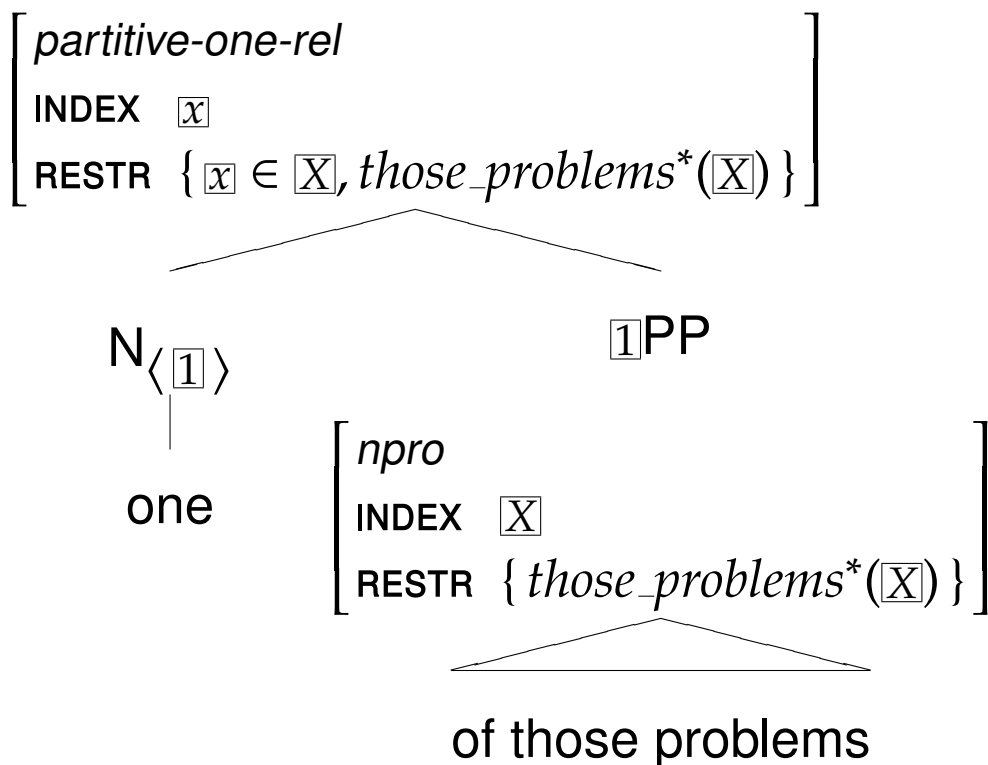
$PP_{of}$

- *One* combines with a non-predicative *of*-PP complement which denotes a plurality  $\boxed{X}$  with restrictions  $\boxed{R}$ , ...
- and produces a singular NP whose index  $\boxed{x}$  is interpreted as an element of the plurality.

$$(38) \lambda Q. \lambda P. One_x x \in X \wedge Q(X) \wedge P(x)$$

(39)

NP



(40)  $\lambda P. \text{One}_x x \in X \wedge \textit{those\_problems}^*(X) \wedge P(x)$

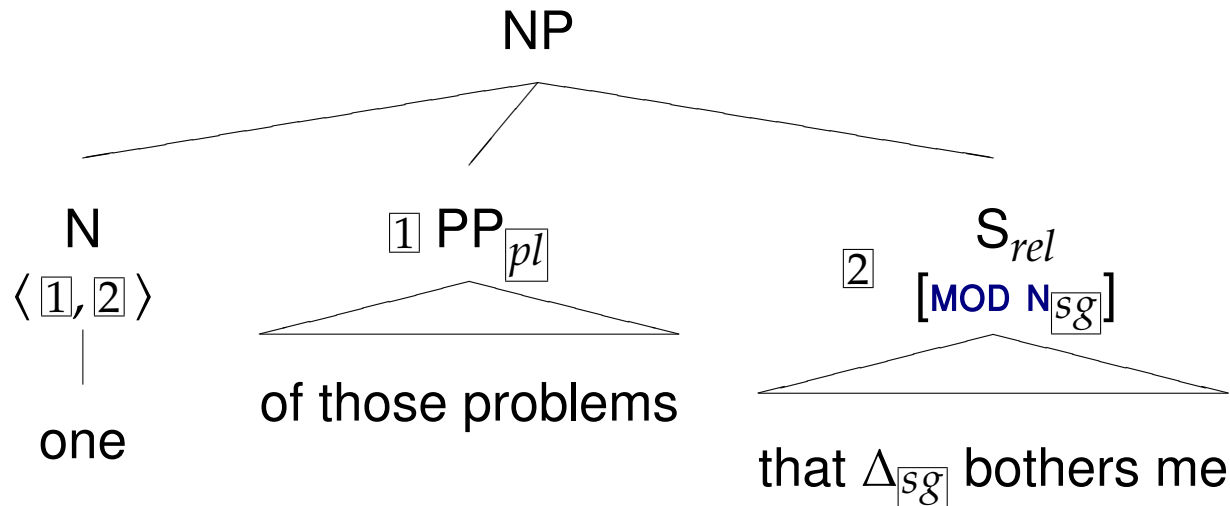
- (41) a.  $\text{One}_x x \in X \wedge \textit{those\_problems}^*(X) \wedge \textit{has\_been\_solved}(x)$   
 b. One of those problems has been solved.

## 3.2 Proposal

- I have suggested that *one* can also license a singular relative clause.
- The easiest way to capture this is to treat the relative clause as an (optional) complement of *one*, adding suitable additional restrictions to the resulting semantics ( $\boxed{R'}$ ):

$$(42) \left[ \begin{array}{c} \text{SS} \mid \text{LOC} \left[ \text{CONT} \left[ \begin{array}{c} \textit{partitive-one-rel} \\ \text{INDEX } \boxed{x} \left[ \text{NUM } \textit{sg} \right] \\ \text{RESTR } \left\{ \boxed{x} \in \boxed{X} \right\} \cup \boxed{R} \cup \boxed{R'} \end{array} \right] \right] \\ \text{ARG-ST} \left\langle \begin{array}{c} \textit{PP}_{of} \left[ \text{LOC} \mid \text{CONT} \left[ \begin{array}{c} \textit{npro} \\ \text{INDEX } \boxed{X} \\ \text{RESTR } \boxed{R} \end{array} \right] \right] , \quad \textit{Relc} \left[ \begin{array}{c} \text{REL } \left\{ \boxed{y} \right\} \\ \text{LOC } \left[ \text{CONT } \boxed{p} \right] \end{array} \right] \end{array} \right\rangle \end{array} \right]$$

(43)



- The problem now is to combine the content of the Relative (e.g. propositional content) with the content of the PP.
- This cannot be done directly (because the Relative is an open predication over singular entities, potentially containing other predicates over the same singular entities, and the PP denotes a plurality)
- We want a way to ‘pluralize’ the Relative.

- A solution is to ‘distribute’ the interpretation of the relative clause across the parts of the plurality  $\Box$  denoted by the PP, by means of a condition that every atomic part of the plurality  $X$  satisfies the propositional content of the relative clause. . .

- The restriction we add is that every atomic part  $y$  of the plurality  $X$  should satisfy the proposition expressed by the Relative:

$$(44) \quad \boxed{R'} = \left\{ \left[ \begin{array}{l} \text{QUANTS} \left\langle \begin{array}{l} \text{foreach} \\ \text{INDEX } \boxed{y} \\ \text{RESTR } \{ \text{partof}(\boxed{y}, \boxed{X}), \text{atomic}(\boxed{y}) \} \end{array} \right\rangle \\ \text{NUCLEUS } \boxed{p} \end{array} \right] \right\}$$

- In the case of *which bothers me*:

$$(45) \quad \begin{array}{l} \text{a. } \left\{ \left[ \begin{array}{l} \text{QUANTS} \left\langle \begin{array}{l} \text{foreach} \\ \text{INDEX } \boxed{y} \\ \text{RESTR } \{ \text{partof}(\boxed{y}, \boxed{X}), \text{atomic}(\boxed{y}) \} \end{array} \right\rangle \\ \text{NUCLEUS } \text{bothers}(\boxed{y}, \text{me}) \end{array} \right] \right\} \\ \text{b. } \{ \text{foreach}(\boxed{y}, \boxed{y} \in \boxed{X} \wedge \text{atomic}(\boxed{y}), \text{bothers}(\boxed{y}, \text{me})) \} \\ \text{c. } \{ \text{foreach}(\boxed{y}, \boxed{y} \in \boxed{X}, \text{bothers}(\boxed{y}, \text{me})) \} \end{array}$$

$$(46) \quad \lambda X. \forall y. y \in X \wedge \text{atomic}(y) \rightarrow \text{bothers}(y, \text{me})$$



(47) one of *those problems* that *bothers* me

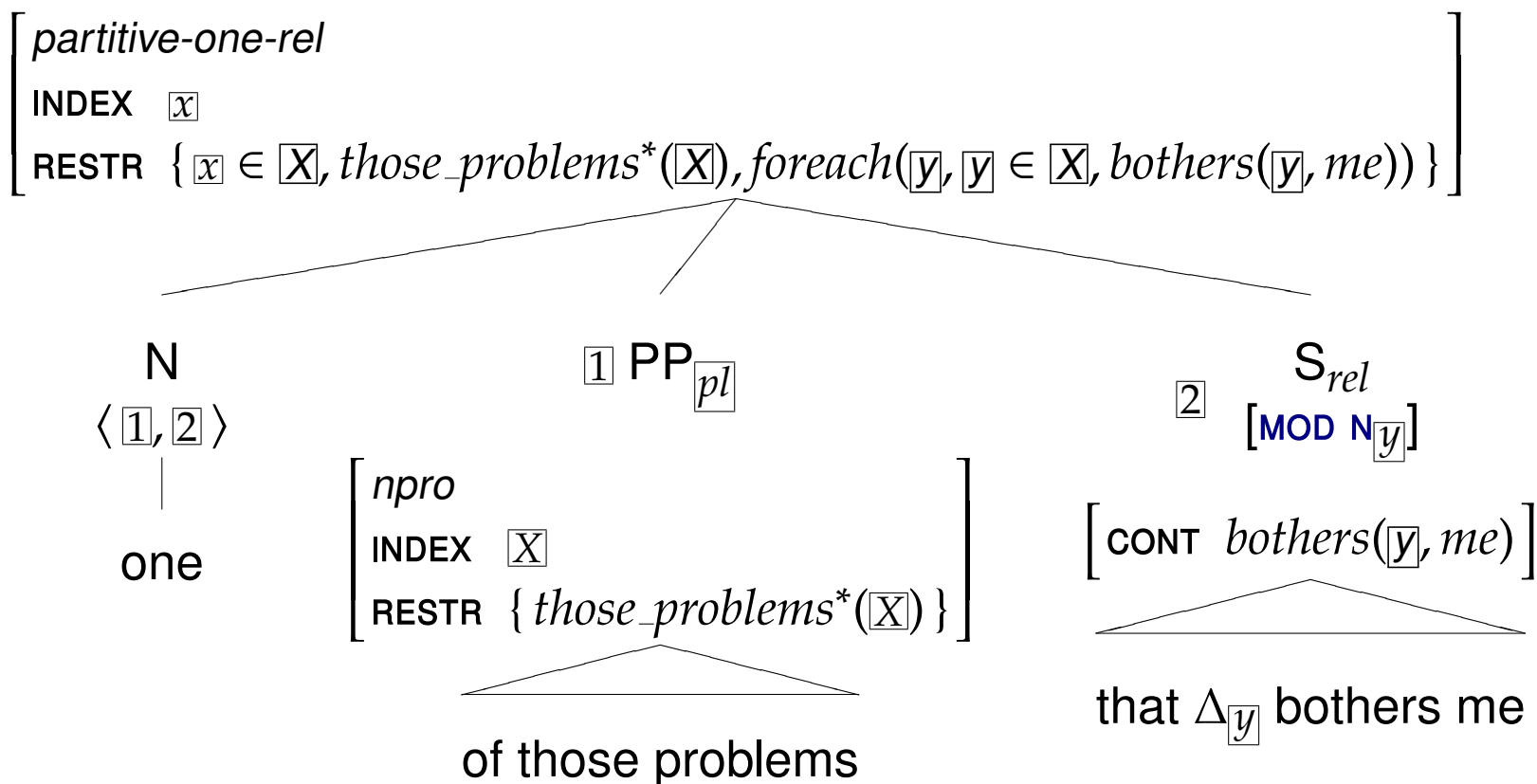
(48) 
$$\left[ \begin{array}{l} \textit{partitive-one-rel} \\ \text{INDEX } \boxed{x} \\ \text{RESTR } \{ \boxed{x} \in \boxed{X}, \textit{those\_problems}^*(\boxed{X}), \textit{foreach}(\boxed{y}, \boxed{y} \in \boxed{X}, \textit{bothers}(\boxed{y}, \textit{me})) \} \end{array} \right]$$

$\lambda P. \textit{One}_x x \in X \wedge \textit{those\_problems}^*(\boxed{X}) \wedge \forall y. y \in X \wedge \textit{atomic}(y) \rightarrow \textit{bothers}(y, \textit{me}) \wedge P(x)$

$\lambda P. \textit{One}_x x \in X \wedge \textit{those\_problems}^*(X) \wedge \textit{bother}^*(X, \textit{me}) \wedge P(x)$

(49)

NP



$$(50) \left[ \begin{array}{c} \text{SS} \mid \text{LOC} \\ \text{CONT} \left[ \begin{array}{c} \text{partitive-one-rel} \\ \text{INDEX } \boxed{x} \left[ \text{NUM } sg \right] \\ \text{RESTR } \left\{ \boxed{x} \in \boxed{X} \right\} \cup \boxed{R} \end{array} \right] \\ \text{ARG-ST} \left\langle \begin{array}{c} \text{LOC} \mid \text{CONT} \left[ \begin{array}{c} npro \\ \text{INDEX } \boxed{X} \\ \text{RESTR } \boxed{R} \end{array} \right] \\ \text{REL } \left\{ \boxed{y} \right\} \\ \text{LOC } \left[ \text{CONT } \boxed{p} \right] \end{array} \right\rangle, \left[ \begin{array}{c} \text{QUANTS } \left\langle \begin{array}{c} \text{foreach} \\ \text{INDEX } \boxed{y} \\ \text{RESTR } \left\{ partof(\boxed{y}, \boxed{X}), atomic(\boxed{y}) \right\} \end{array} \right\rangle \\ \text{NUCLEUS } \boxed{p} \end{array} \right] \end{array} \right]$$

- In words: partitive *one* takes a plural PP and (optionally) a singular relative clause; it combines the restrictions on the PP with the condition that every atomic element in the PPs denotation must satisfy the proposition expressed by the relative clause.

- This treats the Relative as completely singular throughout, and gets the right interpretation:

- (51) a. This is one of those **problems** that really **bothers** me.  
b. This is one of a set (plurality) of problems, each of which bothers me.
- (52) This is one of those problems that really bothers me. I wish I could ignore *them*.  
(*them*='the problems each of which bothers me')

- An alternative implementation of these ideas might involve some kind of covert head that projects a phrase with the right semantic properties (say, a ‘kind’ head, projecting a ‘KindP’)
- This would be observationally equivalent, and not obviously more attractive (e.g. one would still need a way to make sure *one* licenses this phrase, and other items do not).

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## 4.1 Other Words/Constructions



- Some other words are similar to *one*, at least for some speakers (from the BNC):
  
- (53) a. *another* of those *volcanoes* which *was* thought to be extinct until something nasty happened. [ASR/837]
- b. *another* of those *chores* which *is* easier to carry out during post-production editing... [CBP/901]
- c. an individual programme fitted for *each* of *those* who *is* going on. [ASY/1463]

- There are also a number of constructions that include partitive *one*:

- (54)
- a. At least one of the *problems* that *bothers* me has been solved.
  - b. More than one of the *problems* that *bothers* me has been solved.
  - c. Every one of the *problems* that *bothers* me has been solved.
  - d. Not one of the *problems* that *bothers* me has been solved.
  - e. Not a single one of the *problems* that *bothers* me has been solved.

- Why are the following not permitted?

- (55)
- a. \*Fewer than one of the *problems* that *bothers* me has been solved.
  - b. \*Less than one of the *problems* that *bothers* me has been solved.

- (I confess I am not entirely sure about the data here).

- More work needed.

## 4.2 'Selected Relatives'

- A potential objection to the analysis is that it involves treating a Relative Clause as a complement (Relatives are prototypically Adjuncts)
- There are other cases of heads selecting complements that are normally Adjuncts:

- (56) a. I worded the letter \*(carefully).  
b. The management has treated Sandy \*(contemptuously).  
c. This book reads \*(easily).

- Cleft constructions are often analysed as involving a kind of Relative, which might be selected by *be*, in the case of *it*-clefts:

- (57) It was the president [ (that) they were talking about ].

- Relative clauses associated with superlative adjectives are complements of the superlative:

(58) a. This is the best [(that) we could hope for].  
b. \*This is the [(that) we could hope for ].

(59) a. This group of students is the most intelligent [(that) we have taught].  
b. \*This group of students is the intelligent [(that) we have taught].

- (60) a. \*Those came.  
b. Those [who had something useful to say] came.
- (61) a. The/\*Those poor will not be able to take advantage of this proposal.  
b. The/Those poor [who live locally] will not be able to take advantage of this proposal.

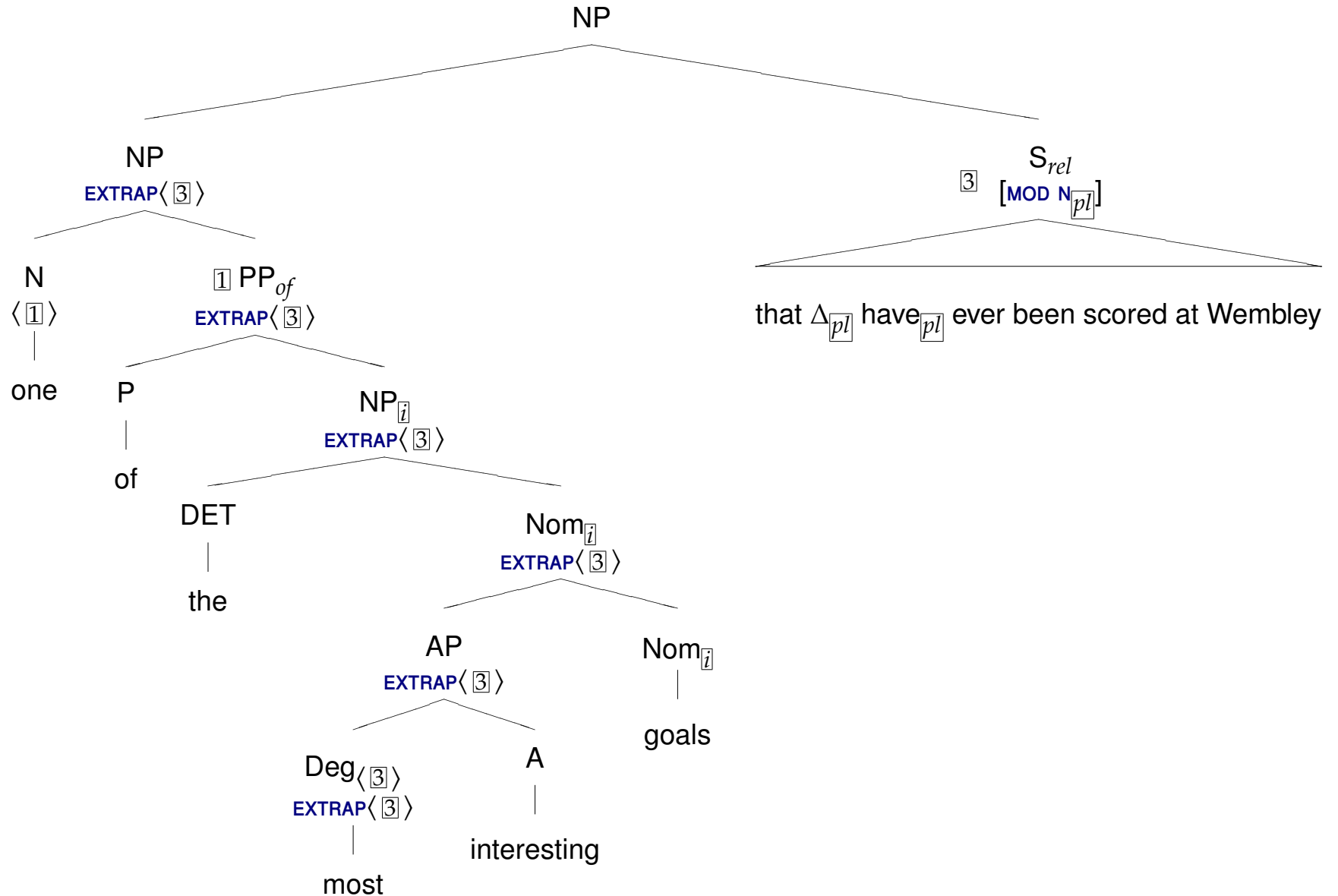
## 4.3 A Refinement

- Notice that this analysis does not treat the Relative as a real modifier inside the partitive PP.
- But this means don't really account for the possibility of NPIs in the Relative – recall:
  - (62) a. one of the most impressive **goals** that **has ever** been seen here
  - b. one of the most impressive goals that have **ever** been seen here
  - c. \*one of the goals that have **ever** been seen here
- We need a way of getting the Relative into the scope of the superlative, most likely as a complement of **-est**, or similar, cf.
  - (63) a. This suggestion is the **most** interesting [**that we could ever hope for**].
  - b. \*This suggestion is the interesting [that we could ever hope for].
- We have to allow for Relatives that have been **extraposed**.

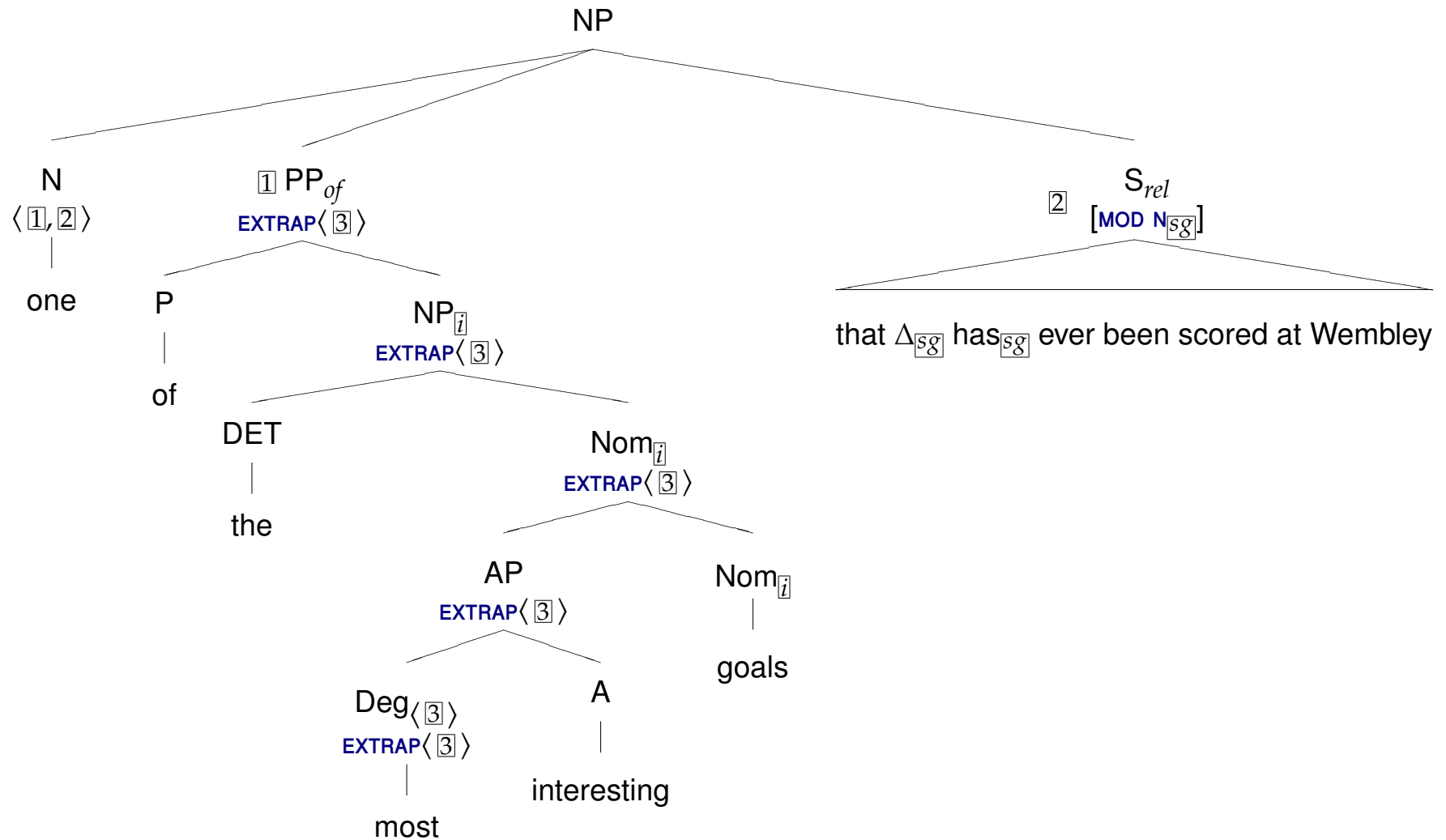
- Of course, we need this for normal relatives as well (see (64));
- Standard HPSG accounts use an 'EXTRAP' list which is passed around (Pollard and Sag (1994:p386), Keller (1995), Van Eynde (1996), Kay and Sag (2012), Crysmann (2013)).
- Elements of the EXTRA list are passed down the tree to a point where they can be interpreted as complements or adjuncts;
- Instead of being realised locally, a complement or adjunct can be placed on the EXTRA list, and passed up the tree, to be realised later.



(64)

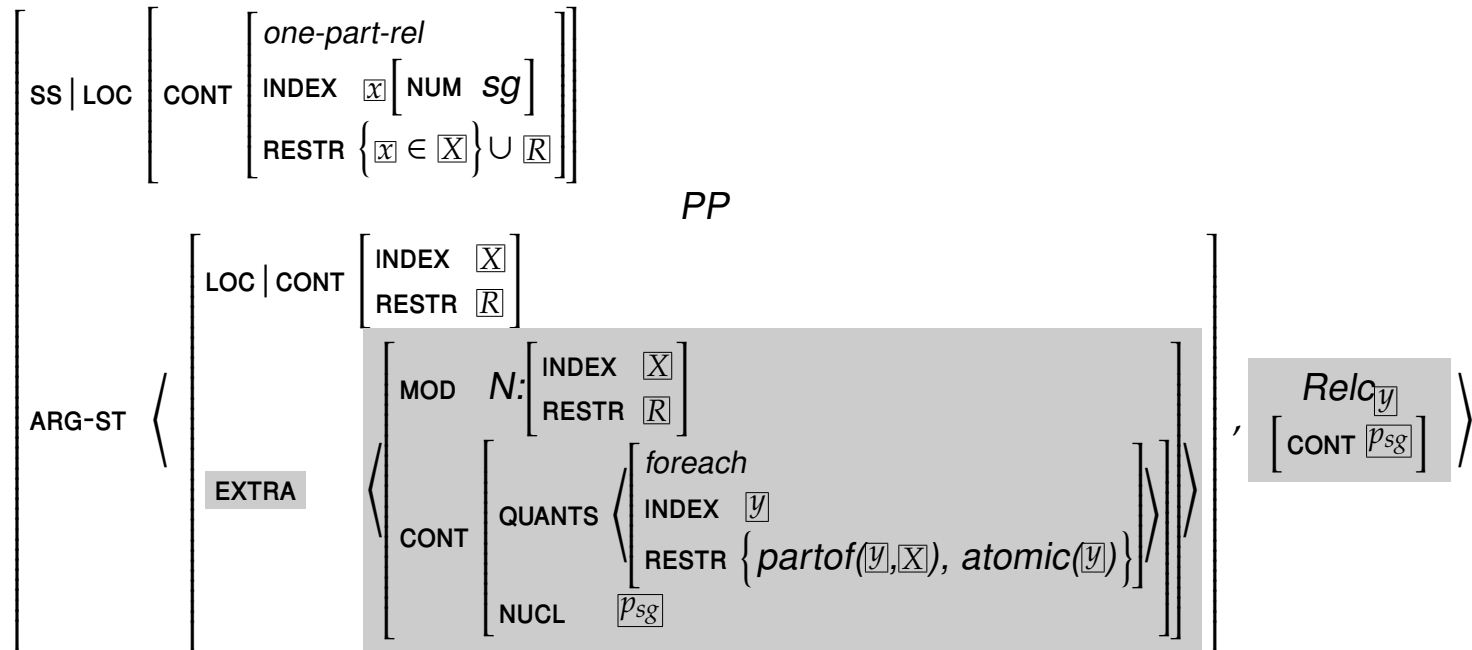


(65)



Where  $^3$  is the 'pluralised' version of  $^2$ .

(66)



- In words: partitive *one* permits a singular relative clause to be interpreted as a plural relative that has been extraposed from the partitive PP.

- (67) a. one of the most interesting goals that has ever been scored here  
 b. one of the most 'that-have-ever-been-scored-here' interesting goals

## 4.4 Non-distributives

- The quantity word *one* allows a singular adjunct to be interpreted distributively over the elements of the plural in the partitive NP.
- The construction should be impossible with relative clauses involving predicates that can only be applied to pluralities (not ordinary singular individuals):

- (68) a. \*He sleeps in separate beds. (vs. They sleep in separate beds.)  
 b. ???one of those *people* who *sleeps* in separate beds

(68b) is bad, but not as bad as it should be, and consider:

- (69) a. \*She is numerous. (vs. They are numerous.)  
 b. one of those crazy *people* who *is* so numerous on demonstrations these days

- (70) a. \*He meets every week. (vs. They meet every week.)  
 b. one of the *people* who *meets* every week to discuss semantics

- 1 Introduction
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## 5 Conclusion

- A little studied, but relatively common, construction of English (and other languages) where a singular relative is interpreted as plural;
- It poses a challenge to any theory of agreement that takes morphosyntactic and semantic aspects of agreement seriously.
- An initially plausible analysis can be developed using existing apparatus (complement selection and extraposition).
- But formalising it reveals some serious puzzles.

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