A peripheral mirage within non-finite IPs

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1 The problem

- Main question: do infinitives project a left periphery (in the sense of Rizzi (1997)) or discourse shells (Emonds, 2004)?
- In particular: how feasable it is for topics to appear at the left periphery of an infinitive? (we will refer to them as Infinitival Topics (IT) hereafter).
- Illustration with English:
 - (1) a. ?I have decided that [a flight to Chicago]_i I will book t_i today.¹
 - b. *I have decided [a flight to Chicago] $_i$ to book t_i today.
 - (2) a. [A flight to Chicago], I have decided that I will book t_i today.
 - b. [A flight to Chicago] $_i$ I have decided to book t_i today.
 - **Derivational theories:** Infinitival T is somewhat defective (in terms of agreement) and thus cannot move to the periphery and project (Roberts, 1993; Gallego, 2010).
 - Cartographic theories: Infinitives do not have a Force projection. TopicP is dependent on Force (Haegeman, 2004; Hernanz, 2011).
- Stating that infinitives do not project/allow left peripheral activity is untrue if we look at Romance languages. In this talk we focus on Catalan and Spanish.

2 The data

2.1 Licensing ITs

- A generalization can be made:
 - (3) The Quant/Interrog Condition on ITs

 An IT is allowed as long as the infinitival clause is introduced by a quant/interrog element.

¹There is variation as to whether native speakers allow these kinds of embedded topicalization, but this issue is irrelevant here.

(4) a. Dudaba, el cordero, **si** hacerlo al horno.
doubted (he) the lamb whether to make.it in the oven

He wondered whether to cook the lamb in the oven.² (*Spanish*)

b. Juan ya ha propuesto, este verano, **dónde** ir. John already has proposed this summer where to go John has already proposed where to go this summer.

(Spanish)

c. En Joan es pregunta, el sopar, **on** fer- lo. the John to himself asks the dinner where to make it John is wondering where to dine.

(Catalan)

d. En Joan dubta, a la festa, **si** anar-hi o no. the John doubts to the party whether to go LOC or not John is wondering whether to go to the party or not.

(Catalan)

• However, aside from (4), there are other cases where (3) clearly falls short of empirical coverage.^{3,4}

(5) Catalan

- a. Crec, les ulleres, haver- les vist a la cuina. believe (I) the glasses, to have them seen in the kitchen I reckon I have seen your glasses in the kitchen.
- b. Prefereixo, als convidats, escriure' ls personalment. prefer (I) to the guests to write to them personally I prefer to address the guests myself.
- c. Em fastigueja, amb la Maria, discutir- m' hi dia sí, dia també. to me disgusts with the Mary to argue DAT LOC day yes day also It bores me to argue with Mary day after day.
- d. Pretenen, al Parlament, entrar- hi divendres. intend (they) to the Parliament to go in LOC Friday They intend to go into the Parliament on Friday.
- e. Espero, amb la Maria, no haver-hi de parlar mai més. hope (I) with the Mary no to have.cl to speak never more I hope I don't have to talk to Mary any more.
- f. Lamento, La Traviata, haver de cantar- la afònica. regret (I) La Traviata to have to sing it hoarse I regret having to sing La Traviata without voice.

(6) Spanish

- a. Creo, tu libro, haberlo visto encima de la mesa. believe (I) your book to have.it seen on top of the table I believe to have seen your book on the table.
- b. Temo, el solomillo, dejarlo como la suela de un zapato. fear (I) the sirloin to leave.it like the sole of a shoe I fear to overcook the sirloin.
- c. Me duele, a María, decirle que no puede ir a la fiesta. to me hurts (it) to Mary to tell.her that no can (she) go to the party It hurts me to tell Mary she cannot go to the party.

²The topic may follow the interrogative particle si as well, although the grammaticality of si>top is slightly worse. We refer the reader to Hernanz (2011) for discussion on this issue.

³A word of warning is in order: we are aware that there are slight differences with respect to how people judge the sentences in (5) and (6) but in general they are accepted by most speakers of Catalan and Peninsular Spanish respectively. For some reason though, Catalan speakers seem more reluctant to accept these sentences. We come back later to this issue.

⁴Note also that the use of the comma is not indicative of a comma intonation.

- d. Juan pretende, a María, regalarle las flores. john intends to Mary to give.her the flowers John intends to give Mary the flowers
- e. Espero, los resultados, tenerlos el lunes. hope (I) the results to have them the Monday I expect to have the results on Monday.
- f. Lamentó, aquellas noticias, haberlas dado en aquellos momentos. regretted (he) those news to have them given in those moments. He regretted having to give those news in such moments.
- Note, crucially, that ITs are subject to certain licensing conditions:
 - (7) a. *Crec, les ulleres, haver-les vist. (cf. (5-a)) (Catalan)
 - b. *Prefereixo, als convidats, escriure'ls. (cf. (5-b))
 - c. *Lamento, La Traviata, haver de cantar-la. (cf. (5-f))
 - d. ??Creo, tu libro, haberlo visto. (cf.(6-a))

(Spanish)

- e. *Temo, el solomillo, cocinarlo. (cf. (6-b))
- The presence of non-pressuposed/assertive material seems to be licensing ITs. Reminiscent of Hooper & Thompson (1973)'s Assertion Hypothesis:
 - (8) The more asserted the complement of a given verb is, the more compatible it is with V2 (and other root phenomena).
- They propose to classify verbs as to whether they select for +/-assertive content.
- Details aside, they correctly predict that the availability of embedded V2 differs as to whether the selecting verb is an assertive predicate (e.g. say, (9)) or a non-assertive one (e.g. doubt, (10)):⁵
 - (9) Han sa at [denne sangen]_i kenne han t_i synge i bryllupet.
 He said that this song the could he sing in wedding the
 He said that this song, he could sing in the wedding. (Norwegian)
 - (10) *Han tvilte på at [denne mannen] $_i$ hadde hun ikke t_i møtt he doubted on that this man the had she not met She doubted that she hadn't met this man. (*Norwegian*)
- Bentzen (2009) shows that Hooper & Thompson (1973)'s generalization does not quite hold.⁶ For instance, complements of semi-factive verbs (*discover, find out...*) are generally pressuposed (non-assertive) and should not allow embedded V2, contrary to the fact:
 - (11) Jeg oppdaget at [denne boka] $_i$ hadde jeg ikke t_i lest. I discovered that this book the had I not read I discovered that I had not read this book.
- Bentzen proposes that the availability of embedded V2 does not hinge on the type of predicate but on the availability of a main point of an utterance (MPU). Roughly put, the MPU is the linguistic material that renders a declarative sentence relevant in the discourse.
- We would like to propose that the availability of ITs is a focus feature in the syntax which, by its very nature, introduces assertive content.

⁵The Norwegian data are taken from Bentzen (2009).

⁶See Jiménez-Fernández & Miyagawa (2013) for empirical arguments against Hooper & Thompson (1973)'s generalization in Spanish and Japanese.

- (12) The Focus Condition on ITs

 An IT is allowed as long as a the infinitival clause is focalised.
- Given that quant/interrog elements are focal operators of some sort, the generalization in (12) is superior to (3).

2.2 Topics vs parentheticals

- If the IT were a parenthetical, we would not expect an asymmetry between raising and control predicates, contrary to the fact, as shown by Catalan and Spanish:
 - (13) a. ??En Joan sembla, a la platja, anar- hi molt sovint a jutjar pel seu color de the John seems to the beach to go LOC very often in judge for the his colour of pell.

skin

John seems to go to the beach very often considering his skin colour. (Catalan)

- b. ??Mi hermana parece, esa ropa, comprarla/haberla comprado en el mercadillo.

 My sister seems those clothes to buy.it/to have.it bought in the flea-market

 My sister seems to have bought these clothes at the flea market. (Spanish)
- ITs are thus licensed in CP contexts and not TPs.⁷
- The same raising-control distinction is observed in (14) and (15) as given by Haegeman (2004, p.82-83, her (41)-(43)):
 - (14) Italian
 - a. Gianni pensa, il tuo libro, di conoscerlo bene. Gianni thinks the your book *di* to know it well
 - b. *?Gianni sembra, il tuo libro, conoscerlo bene. Gianni sems the your book to know it well
 - (15) French
 - a. ??Je pense, ton livre, pouvoir le comprendre.
 - I think your book to be able it to understand
 - b. *Marie semble, ton livre, pouvoir le comprendre.

 Marie seems, your book, to be able it to understand
- Parentheticals are claimed to be "invisible constituents" (de Vries, 2006, p.212, his (30b)). This can be illustrated with O-binding:
 - (16) a. Nobody_i claimed that he_i was thinking about Hank.
 - b. *Nobody $_i$ was, he $_i$ claimed, the dumbest guy in the room.
- However, Q-binding is indeed possible, as the following Catalan example shows:
 - (17) Tot_i pare odia, del seu_i fill, explicar- ne els draps bruts. every dad hates about the his son to explain of it the cloths dirty

⁷We are assuming that control predicates are CPs and raising predicates TPs in line with Chomsky (1980); Chomsky & Lasnik (1993); Landau (2006). For an opposed view, see Bošković (1997); Hornstein (1999); San Martin (2004).

- "Visibility" effects are also observed if we take into account the scope interaction between a sentential negation and *un solo* in Spanish:⁸
 - (18) ?No espero, los resultados de un solo alumno, tenerlos el lunes. no expect the results of a only student to have them the monday
- Note that, (thorough) acceptability aside, this sentence is ambiguous with respect to the scope of ¬. If the IT was invisible, we would not expect the ¬ > solo interpretation.
- Also, note that QPs do not make good ITs. This follows from the topic analysis given that quantificational elements are bad topics in general:
 - (19) *En Joan espera, molts llibres, llegir- los aquest estiu.

 the John hopes many books to read them this summer
- Hence, a parenthetical analysis is empirically inadequate.
- Note that we are not dealing with hanging topics either. First, PPs can also be ITs:
 - (20) a. Proposo, d'aquestes pomes, fer- ne una bona melmelada.

 propose of these apples to make of it a good jam

 I propose to make a great jam out of these apples. (Catalan)
 - b. Hemos propuesto, con estas manzanas, hacer una compota.
 we have proposed with these apples to make a jam
 We have proposed to make a jam with these apples. (Spanish)
- Second, ITs are derived by movement as suggested by the following ungrammatical sentence:
 - (21) *Propuse, el cordero, ir a ver a mi madre antes de cocinarlo.
 proposed (I) the lamb to go to to see to my mother before of to cook.it
 I proposed to go and see my mother before cooking the lamb. (*Spanish*)

2.3 Conditions on the matrix V

- We have treated control verbs as a homogeneous group. Do all of them accept ITs?
- Non-stance (factive, non-asserted) predicates (Cattell, 1978; Etxepare, 1996) do not:
 - (22) ??Juan mencionó, su coche, haberlo aparcado en zona verde.

 john mentioned his car to have.it parked in zone green

 John mentioned to have parked his car at the green zone. (Spanish)
- If the availability of ITs is related to assertive content, the ungrammaticality of (22) follows from the fact that non-stance verbs never introduce assertive content.

3 The analysis

3.1 A previous account: Haegeman (2004)

- Infinitival sentences project until FinP.
- In Romance languages, as opposed to English or Japanese, a topic may be licensed in spec,FinP by means of phi-agreement on Fin.

⁸We thank Yurena M. Gutiérrez for this observation.

• Fin agrees with I in terms of the subject phi-features. Besides,

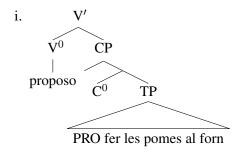
"By virtue of the clitic on I, languages with CLLD spell out object phi-features on I. If Fin and I agree in phi-features, then it is a natural step to propose that in Romance CLLD structures Fin agrees with I not only for subject phi-features but also for object phi features."

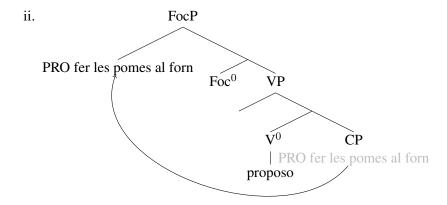
(Haegeman, 2004, p.84)

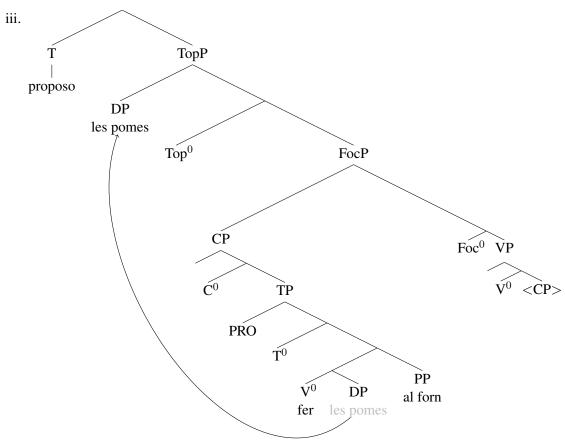
- Main objections:
 - Is there a semantic difference between a topic in spec,FinP and in spec,TopP? If not, why should we bother projecting TopP in finite clauses?
 - If topichood is related to speaker's anchoring, and the latter is in turn related to Force, what is the implication for a topic to be in spec,FinP?
 - Haegeman's proposal clearly overgenerates. Under her system, there is no way to rule out (7).

3.2 Our proposal

- Consider the following example...
 - (23) Proposo les pomes fer- les al forn. propose (I) the apples to make them in the oven
- ... which we analyse as follows:







3.3 Deriving the properties

- This analysis captures the Focus Condition on ITs (12).
- ITs are incompatible with raising predicates because of an independent ban against TP fronting in the syntax. CPs are not subject to this prohibition.
- The Sp/Cat asymmetry: Assuming that (i) the topic position in the middle field is the position for right dislocated elements (Cecchetto, 1999, a.o.), (ii) that right dislocation is the product of aligning the specifier of this topic position to the right (López, 2009a,b) and (iii) that right dislocation is not a natural construction in Spanish (Villalba, 2007), the reason why the Catalan examples are slightly worse is due to the fact that the topical element should be pronounced rightmost in the string.
- **Verum foci incompatibility**: If verum foci (Leonetti & Escandell, 2009) are related to polarity (Batllori & Hernanz, 2009), and polarity is syntactically encoded in the clausal left periphery we expect verum focussed constituents to be ungrammatical in these constructions.
 - *Juan dice, mucho turista, haber visto en Lloret.
 John says a lot tourist to have seen in Lloret
 John says he has seen a lot of tourists in Lloret. (Spanish)
- **Postverbal subjects**: Note that the FocP that we are using in our analysis corresponds to the projection where postverbal subjects in Romance move to according to Zubizarreta (1998); Belletti (1998). Therefore we expect postverbal subjects to be incompatible with focussed CPs as the following Catalan examples show:
 - (25) a. *Va proposar, les pomes, en Joan, fer- les al forn.

 PAST propose the apples the John to make them in the oven

b. ??Va proposar, en Joan, les pomes, fer- les al forn.

PAST propose the John the apples to make them in the oven

4 Further research

- Even though our analysis raises interesting issues, some questions still remain highly dubious.
 - Movement of the CP. If this operation is independent of topicalisation (and there is no reason to think otherwise) then we predict that the following sentences have different syntactic representations:
 - (26) a. Proposo [CP cantar la Traviata].
 - b. Proposo [$_{CP}$ cantar la Traviata afònica] $_i$ t_i .
 - In particular, we must stipulate that in (26-b) the CP occupies the specifier of FocP.
 - Extending the proposal It is not clear how we can extend our proposal to other cases such as (4).
- Towards a more minimal analysis?
- Suppose that the IT is indeed in the left periphery of the embedded clause (so we can at least more intuitively capture the data in (4)). We obviously need to ban this as a default option: see data in (7). But how could we implement (12)?
- Miyagawa (2010), drawing on data from Uriagereka (1995); Holmberg & Nikanne (2002) proposes that there exists crosslinguistically a functional projection between IP and CP which he calls α P. This α P projects only when required (languages differ as to when they need to project α P).
- One of the contexts where αP projects in Japanese is when a sentence contains a topic and a focus (Miyagawa, 2010, p.82), which looks similar to what we are presenting here.
- Appealing as it may be, trying to apply Miyagawa's proposal to the issue of ITs requires us to make many stipulations (at present), but we will keep working on it ©

References

Batllori, M. & Hernanz, M. L. (2009). Foco oracional y polaridad: en torno a una asimetría entre el español y el catalán. In Cartelle, E. M. (Ed.), *Actas del VIII cogreso internacional de historia de la lengua española*, (pp. 2621–2636)., Santiago de Compostela.

Belletti, A. (1998). 'Inversion' as focalization. University of Siena, Siena.

Bentzen, K. (2009). Embedded root phenomena, assertion, pressuposition and main point of utterance. In *Root Phenomena*, *ZAS Berlin*.

Bošković, Z. (1997). *The Syntax of Nonfinite Complementation: An Economy Approach*. Cambridge, MA.: The MIT Press.

Cattell, R. (1978). On the source of interrogative adverbs. Language, 54(1), 61–78.

Cecchetto, C. (1999). A comparative analysis of left and right dislocation in Romance. *Studia Linguistica*, *53*, 40–67.

Chomsky, N. (1980). On binding. Linguistic Inquiry, 11(1), 1–46.

- Chomsky, N. & Lasnik, H. (1993). A minimalist program for linguistic theory. In K. Hale & S. J. Keyser (Eds.), *The view from building 20* (pp. 1–52). Cambridge, MA: The MIT Press.
- de Vries, M. (2006). Invisible constituents? In N. Dehé & Y. Kavalova (Eds.), *Parentheticals* (pp. 203–234). Amsterdam: John Benjamins.
- Emonds, J. (2004). Unspecified categories as the key to root constructions. In D. Adger, C. de Cat, & G. Tsoulas (Eds.), *Peripheries: Syntactic Edges and their Effects* (pp. 75–120). Dordrecht: Kluwer.
- Etxepare, R. (1996). On null complementizers in spanish. ASJU, 2, 469–496.
- Gallego, A. J. (2010). Phase Theory. Amsterdam: John Benjamins.
- Haegeman, L. (2004). The syntax of adverbial clauses and its consequences for topicalisation. *Antwerp Papers in Linguistics*, 107, 61–90.
- Hernanz, M. L. (2011). Sobre la periferia de los infinitivos. In M. V. Escandell Vidal, M. Leonetti, & C. S. López (Eds.), *60 problemas de gramática* chapter 37, (pp. 248–255). Madrid: Akal.
- Holmberg, A. & Nikanne, U. (2002). Expletives, subjects and topics in Finnish. In P. Svenonius (Ed.), *Subjects, expletives and the EPP* (pp. 71–106). Oxford: Oxford University Press.
- Hooper, J. & Thompson, S. (1973). On the applicability of root transformations. *Linguistic Inquiry*, 4, 465–497.
- Hornstein, N. (1999). Movement and control. Linguistic Inquiry, 30(1), 69–96.
- Jiménez-Fernández, A. L. & Miyagawa, S. (2013). A feature-inheritance approach to root phenomena and parametric variation. http://ling.auf.net/lingbuzz/001752.
- Landau, I. (2006). Severing the distribution of PRO from case. Syntax, 9(2), 153–170.
- Leonetti, M. & Escandell, V. (2009). Fronting and verum focus in Spanish. In A. Dufter & D. Jacob (Eds.), *Focus and Background in Romance Languages* (pp. 155–204). Amsterdam: John Benjamins.
- López, L. (2009a). A Derivational Syntax for Information Structure. Oxford: OUP.
- López, L. (2009b). Ranking the LCA. Linguistic Inquiry, 40, 239–278.
- Miyagawa, S. (2010). Why Agree? Why Move? Unifying Agreement-Based and Discourse-Configurational Languages. Cambridge, MA: The MIT Press.
- Rizzi, L. (1997). The fine structure of the left periphery. In L. Haegeman (Ed.), *Elements of Grammar* (pp. 281–337). Dordrecht: Kluwer.
- Roberts, I. (1993). *Verbs and diachronic syntax: A comparative history of English and French*. Dordrecht: Kluwer.
- San Martin, I. (2004). On Subordination and the Distribution of PRO. PhD thesis, University of Maryland
- Uriagereka, J. (1995). Aspects of the syntax of clitic placement in Western Romance. *Linguistic Inquiry*, 26, 79–123.
- Villalba, X. (2007). La dislocació a la dreta en català i castellà: microvariació en la intefície sintaxi/pragmàtica. *Caplletra*, 42, 273–302.
- Zubizarreta, M.-L. (1998). Prosody, Focus and Word Order. Cambridge, MA: MIT Press.