

FEATURE INHERITANCE, VP PHASES AND THE INFORMATION STRUCTURE OF SMALL CLAUSES*

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Abstract. In this paper we explore the interaction of discourse properties in the syntax of small clauses from a cross-linguistic perspective. In line with Chomsky's (2007, 2008) idea that phasal properties should be extended to all phases, we argue for a strict parallelism between C-T and ν -V, suggesting that ν enters the derivation with both agreement and discourse features. These features may be inherited by V depending on the relevant language. Building on Miyagawa (2010) and Jiménez-Fernández (2010), we claim that in Spanish and Greek, in contrast with English, both agreement and discourse features are inherited by V. This strategy accounts for the different order rearrangements detected in small clauses. The proposal can easily be extended to other languages such as Italian, Serbo-Croatian, Russian and Ukrainian, as opposed to French, Norwegian, Afrikaans and German.

1. Introduction

The goal of this work is to explore the interaction of discourse properties in the syntax of small clauses (SCs, hereafter) from a cross-linguistic perspective. In line with Chomsky's (2007, 2008) idea that phasal properties should be extended to all phases, we will argue for a strict parallelism between C-T and ν -V, claiming that ν enters the derivation with both agreement and discourse features, ϕ -features and δ -features, respectively. Miyagawa (2005, 2010) and Jiménez-Fernández (2010) have claimed that languages may be classified according to the type of feature that they highlight in the CP-domain: either ϕ -features or δ -features or both. We assume that giving prominence to one type of feature is crucially related to the possibility of the feature-inheritance mechanism that defines phasal heads. Concerning the CP-system, this leaves us with a threefold typology of languages: those that allow lowering of only ϕ -features, those permitting only the percolation of δ -features, and those

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that show no preference and require the transmission of both φ - and δ -features (Jiménez-Fernández 2010, 2011).

(1) *Feature Inheritance* (φ : agreement features, δ : discourse features)

(adopted from Jiménez-Fernández 2010)

- a. $C_{\varphi,\delta} \rightarrow T_{\delta}\dots$ (discourse-prominent, e.g. Japanese, Korean)
- b. $C_{\varphi,\delta} \rightarrow T_{\varphi}\dots$ (agreement-prominent, e.g. English)
- c. $C_{\varphi,\delta} \rightarrow T_{\varphi,\delta}\dots$ (discourse-prominent, agreement-oriented, e.g. Spanish, Turkish, Greek)¹

As regards phasal ν , languages choose the type of feature to be highlighted and lowered onto V and a parallel behaviour is detected in the ν -V system. Our discussion of phasal ν will focus on argument small clauses. In this connection, English will only emphasise φ -features, hence requiring a fixed word-order in SCs (see (2) below). Nevertheless, languages such as Spanish and Greek give prominence to both agreement and discourse features by passing them over onto V. This typology can be sketched as follows (partially adapted from Jiménez-Fernández forthcoming):

(2) *Feature Inheritance* in ν -V system:

- a. $\nu_{\varphi,\delta} \rightarrow V_{\varphi}\dots$ (agreement-prominent, e.g. English)
- b. $\nu_{\varphi,\delta} \rightarrow V_{\varphi,\delta}\dots$ (discourse-prominent, agreement-oriented, e.g. Spanish, Greek)

¹ As an anonymous reviewer has pointed out, there is one type in this classification which is missing, namely the possibility that all grammatical features (both agreement and discourse) are retained in C. To our knowledge, this is a natural gap in language since there is not a single language where neither the φ -features nor the δ -features are inherited by T (Shigeru Miyagawa, p.c.). As stated in the main text, this is a threefold typology. We can speculate that the non existence of this option is related to the EPP and Phase Impenetrability Condition (PIC), in the sense that without feature inheritance there would be no EPP-forced movement in T and hence any movement would be blocked by the PIC. See Chomsky (2007, 2008) and Richards (2007) on feature inheritance and phasehood. In any case, we remain agnostic with respect to the empirical existence of this forth option and its theoretical justification.

The double nature of the VP-area will justify the rearrangements identified in SCs,² which result from a strict information structure pattern [Top – Foc], as evident from the Spanish and Greek examples in (4–7):³

(3) *English:*

- a. Q: Who do you consider so clever?
A: I consider Susan *very clever*.
- b. Q: How do you consider Susan?
A: I consider *Susan* very clever.

(4) *Spanish:*

- Q: ¿A quién consideras muy lista?
to whom consider-PRES.2SG very clever-FEM.SG
'Whom do you consider very clever?'

² Our work concentrates on the syntax and information structure of argument SCs. However, the same word order alternations hold for non-subcategorized SCs or secondary predicates in languages such as Spanish and Greek. When the secondary predicate modifies the matrix object, either [DP XP] or [XP DP] orders are licit (Demonte 1988, Demonte & Masullo 1999):

(i) *Spanish*

- a. Juan comió la carne cruda.
Juan eat -PAST.3SG the meat raw
- b. Juan comió cruda la carne.
Juan eat-PAST.3SG raw the meat
'Juan ate the meat raw.'

(ii) *Greek*

- a. o janis efaɣe to kreas omo
the John-NOM eat-PAST.3SG the meat_{NEUT-ACC} meat_{NEUT-ACC}
- b. o janis efaɣe omo to kreas
the John-NOM eat-PAST.3SG raw-NEUT.SG.ACC the meat_{NEUT-ACC}

Interestingly, the use of one order or the other is crucially dependent on the information structure of the relevant sentence. For instance, if the focus is on the object, the latter is placed after the secondary predicate ([XP DP] order). On the other hand, if the predicate is the focus, it occupies the final position ([DP XP] order). In languages such as English, this is simply not possible because the object cannot be separated from the verb:

(iii) *English*

- a. John ate the meat raw.
- b. *John ate raw the meat.

For more information on secondary predicates, see Guémann (1990), Mallén (1991), Demonte & Masullo (1999), among many others.

³ In the paper, italics are used for topics and underlining for information focus (capitals indicate contrastive focus). The symbol # must be understood as non felicitous in the relevant context with the intended discourse reading. Likewise, the symbol * means that the example is strongly unnatural. In addition, the Greek (though not the Spanish) examples are provided with case marked glosses, since morphological case is overt in this language.

1 A': Considero *muy lista* a Susana.⁴
 2 consider-PRES.1SG very clever-FEM.SG to Susana
 3 '*I consider very clever Susana.'

4 A'': #Considero a Susana *muy lista*.
 5 consider-PRES.1SG to Susana very clever-FEM.SG
 6 'I consider Susana very clever.'

7
 8 (5) *Spanish*:

9 Q: ¿Cómo consideras a Susana?
 10 how consider-PRES.2SG to Susana
 11 'How do you consider Susana?'

12 A': #Considero muy lista *a Susana*.
 13 consider-PRES.1SG very clever-FEM.SG to Susana
 14 '*I consider very clever Susana.'

15 A'': Encuentro *a Susana* muy lista.
 16 consider-PRES.1SG to Susana very clever-FEM.SG
 17 'I consider Susana very clever.'

18
 19 (6) *Greek*:

20 Q: *pjon* *θeoris* *poli eksipno*?
 21 who-MS.C.ACC consider-2SG very clever-MS.C.SG.ACC
 22 'Whom do you consider very clever?'

23 A': *θeoro* *poli eksipno* to jani
 24 consider-1SG very clever-MS.C.SG.ACC the John-ACC

25 A'': #*θeoro* to jani *poli eksipno*.
 26 consider-1SG the John-ACC very clever-MS.C.SG.ACC
 27 'I consider John clever.'

28
 29 (7) *Greek*:

30 Q: *ti* *θeoris* *to jani*?
 31 what-NEUT.ACC consider-2SG the John-ACC
 32 'How do you consider John?'

33 A': #*θeoro* poli eksipno *to jani*
 34 consider-1SG very clever-MS.C.SG.ACC the John-ACC

35 A'': *θeoro* *to jani* poli eksipno.
 36 consider-1SG the John-ACC very clever-MS.C.SG.ACC
 37 'I consider John clever.'

38 Both (6A'') and (7A') in Greek, as well as their Spanish counterparts (4A'')
 39 and (5A'') are non felicitous in the contexts described above. However, the

40
 41 ⁴ Traditionally, a topic corresponds to an argument of a sentence, never to a predicate
 42 (Reinhart 1981; though see Raposo & Uriagereka 1995 for a different view). When we say that
 43 the SC subject is the focus and its predicate is the topic, we really mean that this predicate is part
 44 of the background information. This background topic moves to allow the subject to occupy
 45 the focus position. In this respect, the kind of movement involved can be seen as Zubizarreta's
 (1998) prosodically-motivated movement. We will come back to this p-movement below.

word order they exemplify may become felicitous if the appropriate constituent is identified as focus or topic. Concentrating on Spanish, if (4A'') has an intonation by which the DP *Susana* receives focus (see the discussion below), the sentence is correct in all aspects, but the AP *muy lista* is felt to be right dislocated and separated by a pause from the rest of the sentence, or at least de-stressed.⁵ As regards Greek, similar discourse-related restrictions hold. The [XP DP] pattern is preferred over the [DP XP] one when asked about the SC subject (6), whereas the contrary holds when asked about the SC predicate (7). (6A'') and (7A') are felicitous answers to (6Q) and (7Q) respectively only if the relevant items (the DP and the XP respectively) are emphatically stressed.⁶

⁵ In Greek, the construction [DP XP] can answer a question about the DP only if the DP is emphatically stressed. In such examples the XP is not separated by pause from the DP, but rather it has the lowering intonation appropriate to the de-accentuation of post-foci material (Revithiadou 2005). Thus, it is not safe to conclude whether it is a right-dislocated element as it may be in Spanish. Similarly, in the construction [XP DP] with emphasis on XP answering a question about the XP, the XP is not separated by pause from the DP. In fact, it can be separated by a pause only if the DP is clitic doubled, in which case it is clearly a dislocated element.

- (i) Q: ti θeoris to jani?
 what-NEUT.ACC consider-2SG the John-ACC
 'How do you consider John?'
 A': θeoro EKSIΠNO to jani
 consider-1SG clever-MSC.SG.ACC the John-ACC
 A'': ton θeoro EKSIΠNO | to jani
 CL3-MSC.SG.ACC consider-1SG clever-MSC.SG.ACC the John-ACC
 'I consider John clever.'

⁶ (7Q) has also another felicitous answer (in fact the most preferred one), which involves a clitic-doubling/dislocation construction:

- (i) (to jani) i maria ton θeori (?*to jani)
 the John-ACC the Mary-NOM CL3-MSC.SG.ACC consider-3SG the John-ACC
 eksipno
 clever-MSC.SG.ACC the John-ACC
 'Mary considers John clever.'

In Spanish, we can also find the clitic construction and the subject may occur in either of the two positions:

- (ii) (A Juan) María lo considera (?* a Juan) listo (a Juan).
 to John Mary CL3-MSC.SG.ACC consider-PRES.3SG to John clever-MSC.SG to John
 'Mary considers John clever.'

Leaving the SC subject in its original place yields an ungrammatical outcome, even in those varieties, such as Rioplatense Spanish, which are more prolific in the use of clitic doubling (Violeta Demonte, p.c.). It should be made clear, though, that clitic doubling/dislocation falls outside the scope of this paper, basically because, despite its connection with the structures under study, in order to do justice to the role of clitic doubling in information structure, separate work on this specific topic would be needed. We are mainly interested in the rearrangements of the relevant parts of the SCs (i.e. displacement) without the extra mechanism of clitic doubling/dislocation. For a discussion of the role of clitic left dislocation in information structure see López (2009) for Spanish and Anagnostopoulou (1999, 2005) and Androulakis (2001, 2010) for Greek.

We propose that these word order differences can be accounted for in a principled way if the behaviour of phasal *v* in a specific language is parallel to that of *C*. English will be predicted not to allow for rearrangement in SCs, while Spanish and Greek are expected to permit the opposite option.⁷ The permutations identified in such languages are crucially contingent upon the discourse properties of SCs. Binding effects, the distribution of floating quantifier and specificity effects provide us with some arguments in favour of our analysis of SCs, based on the kind of features highlighted in the relevant language. Different interpretations of anaphors will reveal that although the SC subject is generated inside the SC, it moves to a specific position within the matrix VP.

On our analysis of word order, there is a parallelism between the information structure of argument SCs and that of matrix clauses. It is generally acknowledged (Zubizarreta 1998, Belletti 2004, López 2009 and Alexiadou 1999, Georgiadjentis & Sfakianaki 2004 among many others) that in pro-drop languages final post-verbal subjects occupy a focus position, which distinguishes them from pre-verbal subjects. Similarly, in SCs when the subject is placed in final position it is because it is the focus of the SC.

2. Argument small clauses: Discourse properties

In this section we examine the relevance of the discourse structure of SCs in the selection of a specific word order, which is based upon the choice of which SC constituent is the topic of the embedded construction. As is well-known, some languages are more flexible than others, allowing for

⁷ One reviewer observes that the reverse order of argument SCs is also available sometimes in English:

- (i) I consider clever all those young men and women who dedicate their time to the study of languages.

As this reviewer claims, the example typically occurs as an answer to a question such as ‘Who do you consider clever?’, which is an indication that in the answer the information satisfying the request in the question will be the focus. While in English information focus is characterised by phonological devices (especially, stress), when the focused constituent is long it tends to occupy final position. This is the case in (i), illustrating what is commonly referred to as End-Weight Principle (Leech & Svartvik 2002). However, this type of reordering has been claimed to be post-syntactic ever since the seminal work by Ross (1967). In our terms, this means that there is no need for any syntactic computation to obtain examples such as (i), since the operation at issue is phonological.

An alternative syntax-based analysis of low subjects in English is provided by Culicover & Levine (2001) and Culicover & Winkler (2008), who claim that inversion in English is due to the fact that the subject remains in its original position. In other words, in (i) the DP subject of the SC stays in situ (maybe because it is too heavy to move). If SCs project some sort of functional category whose specifier is the target of the subject, examples such as (i) can be explained by assuming that the predicate moves to specifier of this functional projection to satisfy its EPP feature, as in locative inversion. In other words, inversion in (i) has nothing to do with movement to the VP-domain of the matrix clause.

1 an alternation of [DP XP] and [XP DP], while others show a very rigid
 2 [DP XP] order. The rearrangements detected in SCs will just be a
 3 consequence of the discourse properties of their members.
 4

5
 6 2.1. *Preliminary assumptions*

7 One of the main problems in current research on information structure is
 8 that there is a tendency to deal with notions such as topic or focus
 9 without an explicit definition. In our work we assume the definition of
 10 topic and the classification of topics which Frascarelli & Hinterhölzl
 11 (2007) put forth and which are further extended by Bianchi & Frascarelli
 12 (2010).

13 Three types of topics can be identified according to Frascarelli &
 14 Hinterhölzl (2007:87):

- 15
 16 (8) a. *aboutness topic*: “what the sentence is about” (Reinhart 1981, La
 17 mbrecht 1994); in particular a constituent that is “newly introduc
 18 ed, newly changed or newly returned to” (Givón 1983: 8), a cons
 19 tituent which is proposed as “a matter of standing and current in
 20 terest or concern” (Strawson 1964).
 21 b. *contrastive topic*: an element that induces alternatives which have
 22 no impact on the focus value and creates oppositional pairs with
 23 respect to other topics (Kuno 1976, Büring 1999).
 24 c. *familiar topic*: a given or accessible (cf. Chafe 1987) constituent,
 25 which is typically de-stressed and realized in a pronominal form
 26 (Pesetsky 1987); when a familiar topic is textually given and D-li
 27 nked with a pre-established aboutness topic, it is defined as a *co*
 28 *ntinuing topic* (cf. Givón 1983).

29 Our attention will be primarily focused upon the third type. The familiar
 30 topic mingles interface notions such as D-linking and givenness and it
 31 is prosodically marked with a low tone. This is exactly the topic that we
 32 find in argument small clauses:

- 33
 34 (9) Q: ¿Qué piensas de María?
 35 what think-PRES.2SG of Mary
 36 ‘What do you think about Mary?’
 37 A: Encuentro a María muy atractiva.
 38 find-PRES.1SG to Mary very attractive
 39 ‘I find Mary very attractive.’

40 In the answer the SC subject *Mary* corresponds to a familiar topic. The
 41 information provided by this constituent has been established before in
 42 the question. This implies that it is given and D-linked.

43 As regards the notion of focus, there is a well-grounded line of research
 44 (Rizzi 1997, É. Kiss 1998, Zubizarreta 1998, Belletti 2004, etc.) in which a
 45

1 distinction is made between information focus and contrastive focus.
 2 Information focus is purely new information which satisfies the request
 3 of a question, whereas contrastive focus is new information which
 4 conveys a contrast or correction with respect to previous assertion. We
 5 will concentrate mainly on information focus, though sometimes we also
 6 pay attention to contrastive focus.

7 Following common practice, the informational focus of a sentence may
 8 be identified by means of question/answer pairs. The new information in
 9 the answer corresponding to the *wh*-expression in the question will
 10 constitute the focus, while the rest of the construction will be part of the
 11 old (given) information expressed in the topic part (Aboh 2010). The
 12 traditional ‘Top – Foc’ partition explains the differences in terms of
 13 acceptability identified in (3–7).

14 The given nature of information is what describes topics, especially
 15 familiar topics. As stated above, this given information can occur in the
 16 sentence as topic or background information. We take the SC subject to
 17 be a topic when it conveys old information, corresponding to the
 18 argument that the content of the SC is about. However, the SC predicate
 19 may simply be background material. Yet we use the label ‘Top’ to cover
 20 both topics and background.

21 A further point about the status of the SC predicate is the classification
 22 of predicates in two groups, namely stage-level (SL) and individual-level
 23 (IL) predicates (Kratzer 1995, Diesing 1992). Stage-level predicates
 24 denote a temporary property of the subject, while individual-level
 25 predicates express a permanent property. This semantic distinction is
 26 crucially related to the information structure of SCs. According to
 27 Raposo & Uriagereka (1995), individual-level predicates are predicated
 28 of a topic, whereas stage-level predicates are not (the latter is an all-focus
 29 construction, in the sense of Erteschik-Shir 1997). Jiménez-Fernández
 30 (2012) has shown that stage-level constructions can further be divided
 31 into two, all-focus sentences (where there is a null topic) and topic –
 32 comment sentences. In the realm of SCs, this three-fold classification can
 33 be illustrated by examples in (10) and the corresponding information
 34 structures in (11):

35 (10) a. Considero a Ángela muy traviesa. [IL]
 36 consider-PRES.ISG to Angela very naughty
 37 ‘I consider Angela very naughty’

38 b. Veo a Ángela muy cansada. [SL]
 39 see-PRES.ISG to Angela very tired
 40 ‘I see Angela very tired’

41
 42 (11) a. Considero [_{Top} a Ángela [_{Comment} muy traviesa]]
 43 b. Veo [_{Top} TOP [_{Comment} a Ángela muy cansada]]
 44 c. Veo [_{Top} a Ángela [_{Comment} muy cansada]]
 45

Our approach to argument SCs is limited to those constructions where the predicate is either IL or SL and the subject may either be a topic (moving to Spec,VP) or a focus (staying in its original position).

2.2. Topic and focus in argument SCs: describing cross-linguistic data

Languages like English do not exhibit the SC alternation. For the questions in (3) there is only one possible answer (*I consider Susan clever* vs. **I consider clever Susan*). This is accounted for by the English preference for topic and focus *in situ* in SCs, due to a purely phonological strategy.

Conversely, in languages like Spanish and Greek the order of constituents in SCs alternates between [DP XP] and [XP DP], but it seems that the reason to prefer one order or the other crucially depends on discourse factors. As regards Spanish, we assume Zubizarreta's (1998) and Ordóñez's (1998) claim that the element containing nuclear stress and, consequently, functioning as informational focus should appear last in the sentence. This explains why in (4) the preferred order is [XP DP], where the DP is the focus constituent and the predicate AP constitutes an embedded topic, while in (5) the reverse order is more felicitous to indicate that now the focus is the predicative AP and the topic is the embedded DP subject.⁸

Spanish and Greek also show a purely phonological recourse to mark the focus and the topic pieces of an utterance. Accordingly, if the non-felicitous sentences above are assigned a proper intonation in an appropriate context, the degradation disappears. Thus, if we ask about the subject of the SC, the most felicitous answer follows the [XP DP] order and focus falls on the subject (see examples (4) and (6)). However, the pattern [DP XP] is also tolerated in such a context, but the subject has some kind of contrastive flavour, typical of contrastive focus.⁹ Contrastive focus can be assigned either in the left periphery of the whole sentence or *in situ*, as is illustrated by examples (12A.a) and (12A.b), respectively (capitals are used to indicate contrastive focus):

- (12) Q: ¿A quién consideras muy listo?
 to whom consider-PRES.2SG very clever
 'Who do you consider very clever?'

⁸ The word order alternation in SCs has been explored by Francom (2003). She proposes that in Spanish Stowell's (1991) *restructuring* rule applies in the narrow syntax, as opposed to English. She also identifies discourse properties in SCs which are responsible for the rearrangement of word order. However, Francom's discussion focuses on the difference between sentences such as *Ella encontró confuso el informe* 'She found confusing the report' (containing an SC) and *Ella encontró el informe confuso* 'She found the report confusing' (showing ambiguity between an SC reading and a DP object reading).

⁹ For differences between the two types of focus, see É. Kiss (1998). For a proposal that dispenses with this distinction see Kenesei (2006), who claims that both contrastive and informational foci involve some sort of identification, which justifies the unitary approach to focus types.

- 1 A: a. A JUAN considero muy listo (no a Pedro).
 2 to John consider-PRES.ISG very clever (not to Peter)
 3 'John, I consider clever (not Peter).'
- 4 b. Considero A JUAN muy listo (no a Pedro).
 5 consider-PRES.ISG to John very clever (not to Peter)
 6 'I consider John very clever (not Peter).'

7
 8 In addition to the sequence [XP DP], the two sentences in (12Aa-b) can
 9 be clearly used as an answer to the question 'Who do you consider
 10 clever?'. Nevertheless, in these two instances there is a sense of contrast
 11 which is simply optional for the [XP DP] ordering in an appropriate
 12 context. From this it follows that the non-felicitous character of the
 13 pattern [DP XP] vanishes if the DP is assigned corrective/contrastive
 14 stress. This is further illustrated by the different interpretations in (13):

- 15 (13) Q: ¿A quién encuentras muy guapa?
 16 to whom find-PRES.2SG very beautiful-FEM.SG
 17 'Whom do you find very beautiful?'
 18 A': Encuentro *muy guapa* a Jimena.
 19 find-PRES.ISG very beautiful-FEM.SG to Jimena
 20 'I find Jimena very beautiful.'
- 21 A'': #Encuentro a Jimena *muy guapa*.
 22 find-PRES.ISG to Jimena very beautiful-FEM.SG
 23 'I find Jimena very beautiful.'
- 24 A''': Encuentro A JIMENA *muy guapa*.
 25 find-PRES.ISG to Jimena very beautiful-FEM.SG
 26 'It's Jimena that I find very beautiful.'

27
 28 From the examples in (13) we can conclude that Spanish may allow for
 29 the pattern [DP XP] in the answer to a question about the SC subject, but
 30 only if the relevant DP subject is assigned contrastive focus *in situ*.
 31 Otherwise, the [XP DP] order is preferred. Similarly, Greek also
 32 instantiates the focus *in-situ* strategy, which again accounts for the
 33 correctness of the pattern [DP XP] with a focused DP in an answer to a
 34 question about the subject of an SC:

- 35 (14) Q: pja vriskis poli omorfi?
 36 who-FEM.SG. ACC find-2SG very beautiful-FEM.SG.ACC
 37 'Whom do you find very beautiful?'
 38 A': vrisko *poli omorfi* ti maria.
 39 find-1SG very beautiful-FEM.SG.ACC the Maria-ACC
 40 'I find Maria very beautiful.'
- 41 A'': *vrisko ti maria *poli omorfi*.
 42 find-1SG the Maria-ACC very beautiful-FEM.SG.ACC
 43 'I find Maria very beautiful.'
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1 A''': vrisko TI MARIA poli omorfi.
 2 find-1SG the Maria-ACC very beautiful-FEM.SG.ACC
 3 'It is Maria that I find very beautiful.'

4 The typology of verbs which subcategorise for argument SCs is quite
 5 varied. According to Demonte & Masullo (1999:2471), based on Spanish,
 6 SCs can be selected by volitional/epistemic verbs (15a), causative verbs
 7 (15b), and supporting verbs (15c):

- 8
 9 (15) a. Juzgo tu propuesta muy original
 10 judge-PRES.1.SG your proposal very original
 11 'I judge your proposal very original.'(D&M's ex. 12ia)
 12 b. Los inesperados abandonos volvieron a mi amiga
 13 the unexpected abandonments turn-PAST.3.SG to my friend
 14 desconfiada.
 15 distrustful
 16 'The unexpected abandonments made my friend distrustful.'
 17 (partially modified D&M's ex. 12ib)
 18 c. Tiene la sonrisa suave.
 19 have-PRES.3SG the smile soft
 20 'She/he has the smile sweet.' (D&M's ex.12ii)

21 Interestingly, the SC selected by all these types of verbs is open to an
 22 alternation in word order when the subject is focused and hence occurs in
 23 the pattern [XP DP]:

- 24
 25 (16) a. Juzgo muy original tu propuesta.
 26 judge-PRES.1.SG very original your proposal
 27 'I judge your proposal very original.'
 28 b. Los inesperados abandonos volvieron desconfiada
 29 the unexpected abandonments turn-PAST.3.SG distrustful
 30 a mi amiga.
 31 to my friend
 32 'The unexpected abandonments made my friend distrustful.'
 33 c. Tiene suave la sonrisa.
 34 have-PRES.3SG soft the smile
 35 'She/he has the smile sweet.'

36 The same pattern occurs in Greek:

- 37
 38 (17) a. vrika tin protasi su poli
 39 find-PAST.1SG the proposi-ACC CL2-SG.GEN very
 40 prototipi
 41 original-FEM.SG.ACC
 42 'I found your proposal very original.'

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- b. i kaθisterisis ekanan ti maria
the delay-PL.NOM make-PAST.3PL the Mary-ACC
δispisti
distrustful-FEM.SG.ACC
'The delays made Mary distrustful.'
- c. exi ton kipo tu panta peripiimeno
have-3SG the garden-ACC CL3-MSC.SG.GEN always trim-MSC.SG.ACC
'He has his garden always trim.'

10 (18) *focus on subject* → [*XP DP*]

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- a. vrika poli prototipi tin protasi
find-PAST.1SG very original-FEM.SG.ACC the proposi-ACC
su
CL2-SG.GEN
'I found your proposal very original.'
- b. i kaθisterisis ekanan δispisti ti
the delay-PL.NOM make-PAST.3PL distrustful-FEM.SG.ACC the
maria
Mary-ACC
'The delays made Mary distrustful.'
- c. exi panta peripiimeno ton kipo tu
have-3SG always trim-MSC.SG.ACC the garden-ACC CL3-MSC.SG.GEN
'He has his garden always trim.'

25 As shown in Jiménez-Fernández (forthcoming), the alternation in SCs is
26 extended to other languages like Italian (19) or Serbo-Croatian (20):

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- (19) a. Gianni considera Maria intelligente.
Gianni consider-PRES.1.SG Maria intelligent
b. Gianni considera intelligente Maria.
'Gianni considers Mary intelligent.' (Belletti & Shlonsky 1995)
- (20) a. Smatram Mariyu nevinom.
consider-PRES.1.SG Mary-ACC innocent
b. Smatram nevinom Mariyu.
'I consider Mary innocent.' (Snezana Jovanović, p.c.)

37 On a par with Romance languages such as Italian and Spanish, in
38 European Portuguese we obtain the same paradigm (Pilar Barbosa and
39 João Costa, p.c.):

- 40
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45
- (21) Q: Quem consideras muito esperta?
whom consider-PRES.2.SG very clever-FEM.SG
'Whom do you consider very clever?'

- 1 A': Considero muito esperta a Maria.
 2 consider-PRES.1.SG very clever-FEM.SG to Maria
 3 '*I consider very clever Maria'.
 4 A'': #Considero a Maria muito esperta.
 5 consider-PRES.1.SG to Maria very clever-FEM.SG
 6 'I consider Maria very clever'.
 7

- 8 (22) Q: Como consideras a Maria?
 9 how consider-PRES.2.SG to Maria
 10 'How do you consider Maria?'

11 A': Considero a Maria muito esperta.
 12 consider-PRES.1.SG to Maria very clever-FEM.SG
 13 '*I consider very clever Maria'.
 14

15 A'': #Considero muito esperta a Maria
 16 consider-PRES.1.SG very clever-FEM.SG to Maria
 17 'I consider Maria very clever'.
 18

19 The discourse restriction in terms of the [topic – focus] order pattern is
 20 active in European Portuguese as well. It is important to emphasise that
 21 the topic part is identified as such via de-accenting, which is typical of
 22 topical elements (Costa 2010).

23 Within the Slavic family, we also find Russian and Ukrainian which
 24 instantiate the information structure-based alternations in argument SCs
 25 we are studying. Consider the contrast between the sentences in (23) and
 26 (24), where the SC pattern is [DP XP], and those in (25–26), where
 27 rearrangement has applied. The reordering in (25–26) is motivated by the
 28 information structure.

29 (23) *Russian*

- 30 a. Schitajj tvojo predlozenije ochen' original'nym.
 31 judge-PRES.1SG your proposal very original
 32 'I judge your proposal very original.'
 33 b. U nejo ulybka miagkaja.
 34 have-PRES.3SG the.smile soft
 35 'He has the smile soft.'
 36 c. Naxozu Ximenu ochen' krasivoj.
 37 find-PRES.1SG Jimena very beautiful-FEM.SG
 38 'I find Jimena very beautiful.'

39 (24) *Ukrainian*

- 40 a. Vvazajj tvoje propovnennja dyze original'nym.
 41 judge-PRES.1SG your proposal very original
 42 'I judge your proposal very original.'
 43
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- b. Maje usmishku m'jaky.
have-PRES.3SG the.smile soft
'He has the smile soft.'
- c. Znaxodzu Ximenu duze garnoju.
find-PRES.1SG Jimena very beautiful-FEM.SG
'I find Jimena very beautiful.'

(25) *Russian*

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- a. Schitajy ochen' original'nym tvojo predlozenije.
judge-PRES.1.SG very original your proposal
'I judge your proposal very original.'
- b. U nejo miagkaja ulybka.
have-PRES.3.SG soft the.smile
'He has the smile soft.'
- c. Naxozu ochen' krasivoj Ximenu.
find-PRES.1SG very beautiful-FEM.SG Jimena
'I find Jimena very beautiful.'

(26) *Ukrainian*

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- a. Vvazajy dyze original'nym tvoje propovnennja.
judge-PRES.1SG very original your proposal
'I judge your proposal very original.'
- b. Maje m'jaky usmishku.
have-PRES.3SG soft the.smile
'He has the smile soft.'
- c. Znaxodzu duze garnoju Ximenu.
find-PRES.1SG very beautiful-FEM.SG Jimena
'I find Jimena very beautiful.'

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On the opposite side of this typology, we also find languages which pattern with English since they do not allow for the SC alternative orders discussed above. Such is the case of French. Though French is a Romance language, the behaviour of SCs is parallel to that of Germanic languages. More precisely, French does not allow for the rearrangement of SC members irrespectively of their discourse properties. It is absolutely impossible to have the equivalent of Spanish/Greek [XP DP] order in French (Alain Rouveret, p.c.):

- 38
39
40
41
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44
45
- (27) a. Je considère Suzanne intelligente.
I consider- PRES.1SG Suzanne intelligent
- b. *Je considère intelligente Suzanne.
I consider- PRES.1SG intelligent Suzanne
'I consider Susan intelligent.'

In general, Germanic languages show a very fixed word order, blocking any type of rearrangement in argument SCs. Such is the case of Norwegian (28), German (29) and Afrikaans (30), as illustrated below:

(28) *Norwegian*

- a. Vi oppfatter forslag-et ditt som veldig originalt.
 we perceive proposal-the your as very original
- a'. *Vi oppfatter som veldig originalt forslag-et ditt.
 we perceive as very original proposal-the your
 'We perceive your proposal very original.'
- b. Det uventede sviket gjorde venn-en min
 the unexpected betrayal make-PAST friend-the my
 mistenksom.
 distrustful
- b'. *Det uventede sviket gjorde mistenksom ven-en
 the unexpected betrayal make-PAST distrustful friend-the
 min.
 my
 'The unexpected betrayal made my friend distrustful.'
- c. Jeg anser Merete som veldig vakker.
 I find Merete as very beautiful
- c'. *Jeg anser som veldig vakker Merete.
 I find as very beautiful Merete
 'I find Merete very beautiful.' (Merete Anderssen, p.c.)

(29) *German*

- a. Ich halte deinen Vorschlag für sehr originell.
 I hold-PRES.ISG your proposal for very original
- a'. *Ich halte für sehr originell deinen Vorschlag.
 I hold-PRES.ISG for very original your proposal
 'I hold your proposal very original.'
- b. Die unerwarteten Austritte machten
 the unexpected abandonments make-PAST.3SG
 meine Freundin misstrauisch.
 my friend distrustful
- b'. *Die unerwarteten Austritte machten
 the unexpected abandonments make-PAST.3SG
 misstrauisch meine Freundin.
 mistrustful my friend
 'The unexpected abandonment made my friend distrustful.'
- c. Ich finde Laura sehr hübsch.
 I find-PRES.ISG Laura very beautiful
- c'. *Ich halte sehrhübsch Laura.
 I find-PRES.1.SGverybeautifulLaura
 'I find Laura very beautiful.' (Christoph Ehlers, p.c.)

(30) *Afrikaans*

a. Ek beoordeel jou voorstel (as) baie oorspronklik.

I judge your proposal (as) very original

a'. *Ek beoordeel baie oorspronklik jou voorstel.

I judge very original your proposal

'I judge your proposal very original.'

b. Ek vind Maria baie pragtig

I find Maria very beautiful

b'. *Ek vind baie pragtig Maria

I find very beautiful Maria

'I find Maria very beautiful.'

(Theresa Biberauer, p.c.)

In this type of language, regardless of whether the SC subject is the focus, there is no reordering at all; otherwise the result is not acceptable. However, focus is again achieved by phonological devices, as in English.¹⁰

To conclude this section, it is safe to draw a classification of languages depending on whether information structure based rearrangement is possible. Type 1 includes languages such as English, French, German, Afrikaans and Norwegian, which resist reordering. Type 2 groups together languages such as Spanish, Greek, Italian, Portuguese, Serbo-Croatian, Russian and Ukrainian, which allow the kind of rearrangement under study.

3. The topic interpretation of the SC subject: some evidence

3.1. *Topichood and definiteness/specificity effects*

In this section we provide evidence in favour of the topic nature of the postverbal constituent in argument SCs. In this connection, it is a well-

¹⁰ Interestingly, in the evolution of Germanic languages the pattern [XP DP] is also well attested. As Christer Platzack (p.c.) points out to us, Older Swedish (roughly 1400–1700) usually had the small clause word order [DP XP] as in modern Swedish, English etc, but also occasionally had the order [XP DP], as in the following examples (with verbal SCs):

(i) ok thādan saa iak nidhir fara eet lius [15th c.]

and therefrom saw I down go a light

(modern Swedish must have 'saw I a light go down')

(ii) ta skal han läta fara präst sin

then shall he let go priest his

(it must be 'let his priest go' in modern Swedish)

For more details about this structure from a historical point of view, see Platzack (1986).

1 known fact that topics, as opposed to foci, show Definiteness/Specificity
 2 effects¹¹ (Enç 1991; Erteschik-Shir 1997, 2006; Diesing 1992, 1997;
 3 Jayaseelan 2001; Molnár 2006; Leonetti 2004, 2008; Aguiar & Rodrigues
 4 2008; Aboh 2010; Frascarelli 2007).¹² Before proceeding any further, in
 5 order to get a better understanding of the Definiteness effects in SCs, we
 6 first present some general aspects on the notion of Definiteness in its
 7 relation to topics. Although this is an extremely controversial issue, a
 8 Definiteness/Specificity constraint on topics is attested in many lan-
 9 guages. Aguiar & Rodrigues (2008) provide examples in English and
 10 Brazilian Portuguese which support the claim that topics are always
 11 definite/specific:

- 12 (31) a. *A student, I will see at LSRL (Linguistic Symposium on
 13 Romance Languages).
 14 b. *Some/any/many student(s), I will see at LSRL.
 15 c. *Alguns/ nenhum/ muitos aluno(s), eu vou ver no LSRL.
 16 some/ no/ many student(s), I will see at.the LSLR
 17 ‘I will see some/no/many student(s) at the LSLR.’
 18

19 However, it is also reported that at least in Brazilian Portuguese some
 20 quantified DPs can occur in topic position if they contain a restrictive
 21 modifying element, as in (32a) (see Aguiar 2007 for data and a theory of
 22 quantified expressions as topics in Brazilian Portuguese).
 23

- 24 (32) a. Alguns/ nenhum/ muitos aluno(s) que voce orientou,
 25 some/ no/ many student(s) that you advise-PAST.2SG
 26 eu vou ver no LSRL.
 27 I will see at.the LSLR
 28 ‘I will see some/no/many student(s) that you advised at the
 29 LSRL.’
 30 b. Alguns/ nenhum/ muitos aluno(s) do Brasil, eu
 31 some/ no/ many student(s) of.the Brazil I
 32 vou ver no LSRL.
 33 will see at.the LSRL
 34 ‘I will see some/no/many student(s) from Brazil at the LSRL.’
 35

36 The explanation that Aguiar & Rodrigues (2008) offer is that definiteness is
 37 expressed in languages by a (non-)definite feature in the structure of DPs
 38

39 ¹¹ Definiteness instantiates cross-linguistically in many ways: an article (English, Spanish),
 40 a suffix (Romanian), or even a prefix (Arabic). Some languages (Turkish) have been claimed
 41 to use case marking to distinguish between definiteness and indefiniteness (the distinction in
 42 Turkish is between specific and non specific, so that only specific objects, including indefinite
 43 specifics, are marked with accusative). Aljiović (2002) reports that in Serbo-Croatian a
 44 specific suffix is attached to prenominal adjectives to indicate the definiteness of the whole
 45 DP. Regarding all these possibilities, see Lyons (1999).

¹² Actually, some of the above mentioned linguists have established a close relation
 between the notions of specificity and discourse linking and presuppositionality (Enç 1991).

1 and some DPs change this feature for different reasons. In particular, in the
 2 above examples the presence of the modifying phrases within the indefinite
 3 DPs forces a definite reading of the relevant quantified DPs (in the sense of
 4 Keenan and Stavi 1986).¹³ In our view, there is no need to postulate a
 5 change in the feature composition of DPs because some indefinites are
 6 ambiguous; hence both readings are possible (see below).

7 Furthermore, an appropriate context may trigger a definite reading of
 8 indefinite DPs, which may support the idea of a coercing mechanism
 9 changing the definite feature of DPs. Examples in (33) illustrate this point
 10 (Aguiar & Rodrigues 2008):¹⁴

- 11 (33) Q: Você comeu os meus bombons?
 12 voce eat-PAST.2SG the my chocolates
 13 ‘Did you eat my chocolates?’
 14 A’: Alguns, eu comi
 15 some, I eat-PAST.1SG
 16 ‘I ate some.’
 17 A’’: Alguns deles/ dos seus bombons, eu comi
 18 some of.them/ of.the your chocolates I eat-PAST.1SG
 19 I ate some of them/of your chocolates.’
 20 A’’’: *Alguns bombons, eu comi.
 21 some chocolates I eat-PAST.1SG
 22 ‘I ate some chocolates.’
 23

24 Interestingly, the definite reading of indefinites is best viewed in light of
 25 the distinction between definite and specific (Suñer 2003, Frascarelli
 26 2007, İşsever 2003). Indefinites are ambiguous in that they can have a
 27 specific or non-specific reading. All the indefinite DPs which can qualify
 28 as topics are specific. The crucial feature, thus, is specificity. Hence, the
 29 examples in (33A’) and (33A’’) are predicted to be correct because the
 30 pre-posed indefinite topics are specific (Alexopoulou & Folli 2011).

31 In Spanish there is also a general constraint on the specific/definite
 32 nature of topics to the effect that indefinite DPs are not generally picked
 33 up as topics, except if there is a trigger forcing a definite interpretation.
 34 This accounts for the marginal status of sentences such as (34):

- 35 (34) ?Algunos bombones, me he comido.
 36 some chocolates CL1-SG have-PRES.1SG eaten
 37 ‘I have eaten some chocolates.’
 38
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41 ¹³ See Costa & Figueiredo (2006) for the interaction of definiteness, givenness and
 42 quantification as being the actual precondition for topichood.

43 ¹⁴ Some kind of contrast is felt in all the examples in (33), which is indicative that the
 44 moved constituent stands for a contrastive topic. See Molnár (2006) for a recent treatment
 45 of contrast in its relation to other core functions of information structure such as topic and
 focus. A stronger claim is made by Bianchi & Frascarelli (2010), who hold that dislocated
 topics of this type are always contrastive.

This sentence is correct only if the indefinite DP *algunos bombones* has an antecedent in the previous discourse, i.e. if it is specific. If pronounced out of the blue, (20) is not felicitous.¹⁵

Dealing with Hungarian, É. Kiss (2002: 11) claims that topics must contain a [+specific] feature. In this respect, Hungarian instantiates the kind of language which permits indefinites to be topicalized, as in (35):

- (35) a. Valaki_{top} kopog.
 somebody knock-PRES.3SG
 ‘Somebody is knocking.’
 b. Valami_{top} le esett a tetorol.
 something VM fall-PAST.3SG the roof
 ‘Something has fallen from the roof.’

É. Kiss (2002) argues that these sentences containing indefinites *valaki* and *valami* are adequate only if their referent is present in the universe of discourse. For instance, (35a) is correct in a context where we have heard somebody knocking on the door. In other words, it seems that what definite and indefinite DPs share is a [+specific] feature in the sense of Enç (1991), that is, the reference of the relevant DPs has to be somehow presupposed. This is also the conclusion arrived at by İşsever (2003) for Turkish, at least partially, since for him Turkish offers examples in which topics can also be realised by non specific elements.¹⁶

In Greek object topics are obligatorily marked with a doubling clitic (Philippaki-Warburton 1985, 1987, and many others thereafter).¹⁷

- (36) Q: pjos filise ti maria
 who-NOM kiss-PAST.3SG the Mary-ACC
 ‘Who kissed Mary?’
 A: ti maria, *(ti) filise o janis
 the mary-ACC CL3-FEM.SG.ACC kiss-PAST.3SG the John-NOM
 ‘Mary was kissed by John’.

The definiteness/specificity constraint applies as well, meaning that indefinite topics are generally disallowed. They are only acceptable if the context allows them to be interpreted as specific. Thus, the corresponding

¹⁵ A contrastive reading of this sentence is also possible, implying a correction or contrast with respect to a previous assertion such as *Os habéis comido todos los bombones, ¿no?* ‘You have eaten all my chocolates, haven’t you?’.

¹⁶ Kornfilt (2003) detects a connection between specificity and case in Turkish. She claims that specificity effects are not independent of other syntactic principles, such as the *Condition on Extraction Domains*.

¹⁷ In Spanish and Italian, we find instances of familiar topics (see above) that are not resumed by a topic. Note that it is just with familiar topics. Givenness and D-linking are the major properties of this type of topics.

Greek examples of (36) are grammatical, only when the topic is clitic doubled and specific.¹⁸

- (37) Q: *pjos efaye ta mila mu*
 who-NOM eat-PAST.3SG the apples CL1-SG.GEN
 ‘Who ate my apples?’
- Aa: **merika/kapia/pola efaya ego*
 some/ some/many-NEUT.PL.ACC eat-PAST.1SG I-NOM
- Aa’: ?*merika/ kapia/ pola ta*
 some/ some/ many-NEUT.PL.ACC CL.3-NEUT.PL.ACC
efaya ego
 eat-PAST.1SG I-NOM
 ‘Some, I ate.’
- Ab: **merika/ kapia/ pola mila*
 some/ some/ many-NEUT.PL.ACC apple-PL.ACC
efaya ego
 eat-PAST.1SG I-NOM
- Ab’: ?*merika/ kapia/ pola mila ta*
 some/ some/ many apple-PL.ACC CL3-NEUT.PL.ACC
efaya ego
 eat-PAST.1SG I-NOM
 ‘Some apples, I ate.’
- Ac: **merika/ kapia/ pola apo ta mila*
 some/ some/ many-NEUT.PL.ACC from the apple-PL.ACC
su efaya ego
 CL2-SG.GEN eat-PAST.1SG I-NOM
- Ac’: *merika/ kapia/ pola apo ta mila*
 some/ some/ many-NEUT.PL.ACC from the apple-PL.ACC
su ta efaya ego
 CL2-SG.GEN CL3-NEUT.PL.ACC eat-PAST.1SG I-NOM
 ‘Some of your apples, I ate.’

However, specificity alone does not seem to be the only factor inducing topicality. Consider the following dialogue taking place in a tavern. A guy joins the party of other friends and he is asked whether he wants anything to drink:

¹⁸ In Spanish we may also have an indefinite DP such as *algunos estudiantes* ‘some students’ in CLLD. In this case, the dislocated DP is interpreted as specific (Suñer 2003), which means that these students either have been mentioned before or they are perfectly identified in context:

- (i) A *algunos estudiantes los veré en Leeds.*
 to some students CL see-PRES.1SG in Leeds
 ‘I’ll see some students in Leeds.’

The interpretation for this is that people in the conversation are aware of which students we are talking about. Note that P *a* ‘to’ for animate DP objects is inserted with a [+specific] reading (see below for discussion).

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- (38) Q: ti θa pjis?
 what FUT drink-2SG
 ‘What do you want to drink?’
 A: ena uzaki θa to epina
 a OUZO FUT CL3-NEUT.SG.ACC drink-PAST.1SG
 ‘I could drink an ouzo.’

In such a context, the indefinite *ena uzaki* ‘an ouzo’ is discourse prominent in the sense that you are expected to drink ouzo in a tavern (Kazazis & Pentheroudakis 1976, Philippaki-Warburton 1987). In order to account for such facts Anagnostopoulou & Giannakidou (1995) propose a discourse prominence condition based on D-linking *à la* Pesetsky (1987). There is a lot of discussion in Greek literature about the nature of this discourse prominence, but it seems to be connected with a very loose notion of givenness, where given is defined in terms of linguistic or extra-linguistic context or in terms of pragmatic conditions, etc. (see the discussion in the references above and in Anagnostopoulou 1994, 1999, Androulakis 2001, 2010 among others). This givenness explains why a sentence such as (38A) is felicitous in the specific tavern context.¹⁹

To sum up, it seems that some interface conditions may have an influence on the specific interpretation of an indefinite DP. These interface conditions are D-Linking (either linguistic or contextual) and givenness. Candidates for topicality must contain the feature [+ specific].

In Spanish a connection is found between specificity and what has been called differential object marking. In this language the direct object is introduced by the preposition *a* if the relevant DP is interpreted as specific (Leonetti 2004). This explains the difference between the two sentences in (39):

- (39) a. Necesita a una enfermera que pasa
 need-PRES.IND.3SG to a nurse that spend-PRES.IND.3SG
 la mañana con ella.
 the morning with her
 b. Necesita una enfermera que pase
 need-PRES.IND.3SG a nurse that spend-PRES.SUBJ.3SG
 la mañana con ella.
 the morning with her
 ‘He needs a nurse {that spends the morning with her / to spend the morning with her}.’

¹⁹ In Spanish indefinite given DPs can be used with or without a clitic in a similar context:

- (i) Una cerveza me (la) tomaba yo.
 A beer CL.1-SG CL.3-FEM.SG drink-PAST.1SG I
 ‘I would love a beer.’

The point that we are especially interested in is that if topicalizable DPs contain the feature [+specific], animate bare DP objects are predicted not to occur in topic position. This is confirmed by the contrast between (40a) and (40b) (Leonetti 2004):²⁰

- (40) a. A muchos estudiantes, ya los conocía
 to many students already CL.3-PL know-PAST.ISG
 ‘Many students I already knew’.
 b. *Muchos estudiantes, ya los conocía
 many students, already CL.3-PL know-PAST.ISG
 ‘Many students I already knew’.

From the paradigm in (40) it follows that, at least in languages such as Spanish, specificity, topicality and the prepositional marker *a* are closely related in such a way that animate topics tend to be specific and prepositional.

The conclusion so far seems to be that candidates deemed as topics must be specific, either by nature or as a consequence of some linguistic or contextual strategy forcing a specific reading of indefinite DPs.²¹

The preceding remarks posit an intriguing question as far as the information structure of SCs is concerned: Does the syntax of SCs give rise to any specificity effects? Our immediate task is to explore the interplay between specificity and topichood in argument SCs. The basic idea is that topics should contain a [+specific] feature which entitles possible candidates as suitable to be topicalized. On the other hand, foci can either be specific or non specific. If this is on the right track, we should expect a possible non-specific focus in the SC subject position, but

²⁰ See also Laca (1987), who argues that in clitic left dislocation the preposition is always present regardless of its possible absence in their non-dislocated counterparts.

²¹ In principle, a special status should be kept for generic DPs. According to Zubizarreta (1998) and Moreno & Pérez (2004), in Spanish left dislocated bare plurals can be interpreted as topics:

- (i) Manzanas, Pedro (las) come todos los días.
 Apples Peter CL3-PL eat-PRES.3SG all the days
 ‘Apples, Pedro eats them every day.’

In Greek, bare plural generics are the only ones that may be topicalized without a clitic; in fact they do not tolerate a clitic. On the contrary, definite plural generics can be topicalized only when they are clitic doubled/dislocated.

- (ii) a. mila, o janis troi kaθe mera
 apple-PL.ACC the John-NOM eat-3SG every day
 b. *mila, o janis ta troi kaθe mera
 apple-PL.ACC the John-NOM CL3-NEUT.PL.ACC eat-3SG every day
 ‘Apples, John eats them every day.’
 (iii) a. *ta skilakia, ta peðia latrevun
 the puppy-PL.ACC the child-PL.NOM adore-3PL
 b. ta skilakia, ta peðia ta latrevun
 the puppy-PL.ACC the child-PL.NOM CL3-NEUT.PL.ACC adore-3PL
 ‘Puppies, children adore them.’

never a non-specific topic. This prediction is borne out in the light of examples in (41) and (42):

- (41) a. */?/? Dejamos muchos cubiertos limpios.²²
 leave-PAST.1PL many pieces of cutlery-MSCL clean-MSCL
 b. Dejamos limpios muchos cubiertos.
 leave-PAST.1PL clean-MSCL many pieces of cutlery-MSCL
 ‘We left many pieces of cutlery clean.’

- (42) a. */?/? Considero algunos asuntos claros.
 consider-PRES.1PL some affairs-MSCL clear-MSCL
 b. Considero claros algunos asuntos
 consider-PRES.1PL clear-MSCL some affairs-MSCL
 ‘I consider some affairs clear.’

The data in (41–42) can be accommodated in terms of the topic – focus partition of the SC. The DPs *muchos cubiertos* ‘many pieces of cutlery’ and *algunos asuntos* ‘some affairs’ can be the subject of an SC only when they are interpreted as foci, as in (41b) and (42b), but their occurrence (with the intended topic interpretation) is circumscribed to the [AP DP] pattern. Note that the SC subject contains a [–specific] feature which does not favour a topic reading, explaining the anomaly of (41a) and (42a). If the SC indefinite subject is replaced by a definite DP the anomaly vanishes:

- (43) a. Dejamos todos esos cubiertos limpios.
 leave-PAST.1PL all those pieces of cutlery-MSCL clean-MSCL
 b. Dejamos limpios todos esos cubiertos.
 leave-PAST.1PL clean-MSCL all those pieces of cutlery-MSCL
 ‘We left all those pieces of cutlery clean.’

As is clear, with a specific subject both the patterns [DP AP] and [AP DP] are fully acceptable. The contrast between (41a) and (43a) indicates that the post-verbal slot is a topic position which can only be filled by a

²² The ungrammaticality/inappropriateness of these examples is crucially dependent on the non-specific interpretation of the SC subject. In languages such as Spanish indefinite DPs are ambiguous between a specific and a non-specific reading. If these DPs are interpreted as specific, the examples improve considerably since they can be topics (see note 19).

definite/specific DP.²³ Building on Leonetti's (2004) claim that personal *a* is only compatible with specific DPs, it is interesting to test the possible occurrence of (non)specific animate DPs in the topic position detected for the SC subject in the pattern [DP XP]. If topics are specific, and prepositional animate objects (and subjects) are specific, it is expected to find examples of SCs containing a prepositional animate subject, whereas non-prepositional animate subjects are predicted not to be licensed in the relevant sequence. The examples in (44) confirm this prediction:

- (44) a. Encuentro a la/ esta señora muy elegante.
 find-PRES.1SG to the/ this lady very elegant
 'I find the/this lady very elegant.'
 b. *Encuentro la/ esta señora muy elegante.
 find-PRES.1SG the/ this lady very elegant
 'I find the/this lady very elegant.'

The contrast in (44) may receive a principled explanation only if the post-verbal position is defined as a topic.

That the post-verbal position is reserved for a topic element is also evident from the following example from Greek.

- (45) i epitropi theorise karies/merikes ipothesis
 the committee consider-PAST.3SG some case-PL.ACC
 asafis
 unclear-FEM.PL.ACC
 'The committee considered some cases unclear.'

Although constructions with indefinite SC subjects are grammatical/felicitous when pronounced out of the blue, they are disallowed when the indefinite SC subject constitutes a topic. The only chance for an indefinite DP to function as the SC subject with a topic reading is when it is clearly specific (46Ab).

- (46) Q: ti γnomi ixē i epitropi γja tis
 what opinion have-PAST.3SG the committee-NOM for the
 ipothesis?
 case-PL.ACC
 'What was the opinion of the committee about the cases?'

²³ The coercing strategy that turns a [-specific] feature into a [+specific] one ameliorates the judgement about examples such as (41a) and (43a). This implies that if a modifier is inserted in the relevant DP or simply the context forces a specific reading, these sentences are licit, and the post-verbal DP allows for the usual topic reading:

- (i) Dejamos muchos de esos cubiertos limpios.
 leave-PAST.1PL many of those pieces of silverware clean
 'We left many of those pieces of silverware clean.'

- 1 Aa: *i epitropi theorise kapiēs/merikes
 2 the committee consider-PAST.3SG some
 3 ipóthesis asafis
 4 case-PL.ACC unclear-FEM.PL.ACC
 5 ‘Some cases, they considered them unclear.’
 6 Ab: i epitropi theorise kapiēs/merikes apo tis
 7 the committee consider-PAST.3SG some of the
 8 ipóthesis asafis
 9 case-PL.ACC unclear-FEM.PL.ACC
 10 ‘Some of the cases, they considered them unclear.’

11 As shown by the paradigm in (46), Greek also instantiates a clear preference
 12 for topics which are marked as [+specific]. This accounts for the difference
 13 between (46Aa) and (46Ab), where the specific DP *kapiēs/merikes apo tis*
 14 *ipóthesis* ‘some of the cases’ is used and the topic reading is available.

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 17 3.2. *Two other pieces of evidence for topic-hood*

18 Additional support for the topic nature of the post-verbal element of
 19 argument SCs comes from contextual considerations. The following text
 20 has been extracted from a context where two twin girls are compared:

- 21 (47) Pero en el de Linda había una serenidad y una tranquilidad que
 22 contradecían con la vivacidad de su hermana y que realmente la
 23 hacían *a ella* más atractiva. ‘But in Linda’s there was a serenity
 24 and a tranquillity which contradicted her sister’s liveliness and
 25 which really made her more attractive.’
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28 Frascarelli (2007) claims that overt subjects in Romance are used only if
 29 they are topic or focus. In the context in (46) the information provided by
 30 the SC subject *a ella* is shared in the communicative environment; more
 31 strictly, the information provided by this constituent is given in
 32 discourse. Accordingly, it stands as a familiar topic, to use Frascarelli
 33 & Hinterhölzl’s (2007) term. As such it cannot occur in final position,
 34 which is typically reserved for information focus, as (48) suggests:

- 35 (48) #... y que realmente la hacían más atractiva a
 36 ... and which really CL make-PAST.3PL more attractive to
 37 ella.
 38 her
 39 ‘... and which really made her more attractive.’
 40

41 This unavailable reordering lends further support to our claim that the
 42 first SC constituent after the matrix verb is placed in a topic position.

43 Finally, we present a last piece of evidence which supports the topic
 44 nature of the post-verbal DP in SCs; namely, the interaction of floating
 45 quantifiers (FQs) and the discourse properties of the SC. Valmala (2008)

proposes that the reason why the FQ phenomenon exists is that there is a mismatch in the discourse features of the FQ and its associate. What this means is that for the possible combinations of topic marking, focus marking or no marking (hence neutral), it is only when the marking of the quantifier and its associate does not coincide that the dissociation is produced, inducing FQ. This explains the different combinations attested in Spanish, some of which are exemplified in (49):

- (49) a. *Los estudiantes de física* creo que
 the students of physics think-PRES.1SG that
 TODOS consiguieron beca.
 all get-PAST.3PL grant
 b. LOS ESTUDIANTES DE FÍSICA creo que consiguieron
 todos beca.
 c. *Los estudiantes de física* creo que consiguieron todos BECA.
 ‘I think that all students of physics got a grant.’

In (49a) the moved DP *los estudiantes de física* ‘the students of physics’ is marked as a topic, whereas the FQ *todos* ‘all’ is marked as a contrastive focus. Conversely, in (49b) the moved DP is a contrastive focus, whereas the FQ is neutral. Moreover, in (49c) the moved DP has a topic function, and the stranded FQ is neutral.

As stated above, the SC pattern [DP XP] reflects two possible discourse interpretations: i) the DP subject is a topic, and ii) the DP subject is an *in-situ* contrastive focus.²⁴ In the light of Valmala’s (2008) possible combinations of FQ and its associate, the prediction is that the DP is dissociated from the Q in SCs when each has a different discourse marking. This is confirmed by examples in (50), which illustrate the combination of a neutral FQ and a topic associate:

- (50) a. Encuentro *estos libros* todos interesantes.
 find-PRES.1SG these books all interesting
 ‘I find all those books interesting.’
 b. Encuentro *a los chicos* todos muy traviosos.
 find-PRES.1SG the boys all very naughty
 ‘I find all the boys very naughty.’

Turning into Greek, the examples in (51) shows a clear parallelism:

- (51) Q: pja ine i γnomi su γja afta ta vivlia?
 what is the opinion CL2-SG.GEN for these the books?
 ‘What do you think of these books?’

²⁴ For the sake of completeness, we mention that this is the order with a neutral reading in wide scope cases.

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- (53) a. Encuentro TODOS ESTOS LIBROS interesantes (no esos artículos).
b. Encuentro A TODOS LOS CHICOS muy traviesos (no a las chicas).

As the examples in (53) illustrate, the occurrence of the FQ *todos* with no dissociation of its associate is licit, which accounts for the contrastive focus flavour detected in SCs conforming to the pattern [DP XP]. The same situation holds in Greek:

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- (54) Q: ti theoris enðiaferon?
 what consider-2SG interesting?
 ‘What do you consider interesting?’
Aa: ðeoro OLA AFTA TA VIVLIA
 consider-1SG all-NEUT.PL.ACC these the books
 enðiaferonta
 interesting-NEUT.PL.ACC
Ab: *ðeoro AFTA TA VIVLIA OLA
 consider-1SG these the books all-NEUT.PL.ACC
 enðiaferonta
 interesting-NEUT.PL.ACC
Ac: ðeoro AFTA TA VIVLIA ola
 consider-1SG these the books all-NEUT.PL.ACC
 enðiaferonta
 interesting-NEUT.PL.ACC
 ‘I consider all these books interesting.’

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The only difference is that, when the FQ is left behind, it has to be interpreted either as neutral or as topic depending on the context. These facts indicate that the DP with the contrastive focus reading has moved out the SC constituent, perhaps to a position in the VP, in order to satisfy a [focus] feature. Moreover, the fact that the FQ is not part of the CF gives further credit to the dissociation property of the SC DP-subject and its FQ.

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As a conclusion, the [topic – focus] partition can accommodate all the data that we have discussed in this section. The specificity constraint on the SC subject supports the topic nature of this constituent. Moreover, the distribution of FQs lends further credit to our proposal that the SC subject may be an embedded topic.²⁶

4. A feature-inheritance analysis of SCs: movement to Spec-VP

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In this section we propose that the word order differences identified in SCs can be accounted for in a principled way if the behaviour of phasal *v* in a

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²⁶ See Jiménez-Fernández (forthcoming) for additional arguments in favour of the [topic – focus] analysis of SCs in Spanish.

1 specific language is parallel to that of C. Miyagawa (2005, 2010) holds that
2 C enters the Lexicon with discourse features (δ -features), which may be
3 inherited by T depending on the relevant language. We take a step further
4 and claim that a similar behaviour is detected in the *vP*-area. This syntactic
5 strategy is also subject to parametric variation. In our system, English is
6 thus predicted not to allow for rearrangement in SCs, whereas Spanish and
7 Greek are expected to permit such reordering. The permutations detected in
8 such languages are crucially contingent upon the discourse properties of
9 SCs. By combining the inherited δ -feature and an edge feature (EF), V
10 attracts the SC topic part to spec-VP, be it the subject or the predicate,
11 hence accounting for the reordering of subject and predicate.

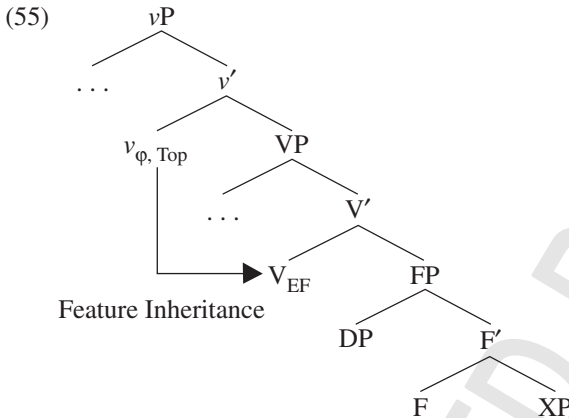
12 There have been many competing analyses of SCs proposed (Stowell
13 1981, Kitagawa 1985, Aarts 1992, Bowers 1993, 2001, Den Dikken 2006,
14 Citko 2008, 2011, among many others; see also Jiménez-Fernández 2000,
15 2002, forthcoming for Spanish and Spyropoulos 1998, 1999 and
16 Tsokoglou 1997 for Greek). Assuming that SCs are not fully fledged
17 sentences,²⁷ we will deduce that they do not contain either a C or the
18 corresponding Topic and Focus categories identified in the CP-system by
19 the cartographic studies.²⁸ This leaves the possibility of detecting
20 discourse positions at a lower zone, as Belletti (2004), Aboh (2007) and
21 Zubizarreta (2010) propose. Claiming that concrete discourse categories
22 will account for discourse movement is far beyond Economy Principles.
23 However, given the discourse interpretation of the members of SCs in
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26 ²⁷ We assume that SC structure includes a functional projection F (much in line with
27 Cinque 1990 and Haegeman 2010) above the projection of the category that functions as the
28 predicate, the exact content of which is not clear. For the possibility of including other
29 functional categories in the structure of SCs, see Jiménez-Fernández (2000), who claims that
30 SCs project an Aspectual Phrase; Bowers (1993, 2001), who posits a Predicate Phrase above
31 the SC; Starke (1995), who holds that SCs are full clauses and hence project a CP. For
32 reasons of space we cannot discuss the different proposals and remain neutral with respect
33 to the exact status of the functional spine of SCs. Thus SCs are analysed here as FPs
34 (functional projections). However, we note that SCs are reduced clauses, and hence lack a
35 CP. One of the main motivations for this is that CP is in charge of endowing clauses with
36 illocutionary force, thereby typing clauses as declarative, interrogative, exclamative, etc. It is
37 obvious that SCs do not convey any force since they cannot be described as declarative,
38 interrogative, etc. From this it follows that SCs are not CPs.

39 With respect to our theory of SCs, there have been two main lines of research of SC
40 within generative grammar. For some linguists (all the above-mentioned authors), SCs are
41 syntactic units of some kind. For other linguists, such as Williams (1983 et seq.) and
42 Rothstein (1985), the predicate of the SC is predicated of its subject constituent, and hence
43 these two elements need not constitute a constituent. This is known as the Predication
44 Theory (Williams 1980). We take the first line of research as superior. Again, lack of space
45 precludes a thorough discussion of this point here, but one of the arguments against the
46 predication theory is, in our view, that if argument SCs do not constitute a syntactic unit,
47 there is no possible way to distinguish between argument SCs and adjunct SCs (secondary
48 predicates).

49 ²⁸ See Erteschik-Shir (2006) and Neeleman & van de Koot (2008) for arguments against
50 Rizzi's (1997, 2004) idea that Focus and Topic are heads that project their own phrases.
51 Also, Gill & Tsoulas (2004) provide an extensive study of discourse effects in the clause
52 without specific discourse-related categories at the edge of phases.

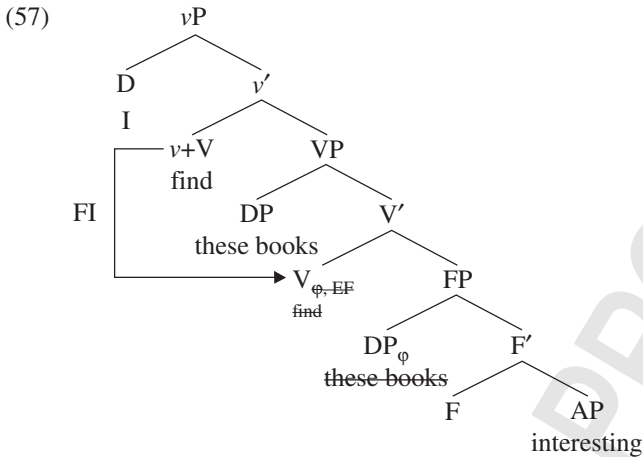
some languages, we propose that the matrix ν P-area in those languages is responsible for the interpretation of embedded constituents as topic or focus. The syntactic configuration for argument SCs and its projection into the matrix ν P phase is as follows:



From the strict parallelism between the C-T and ν -V systems it follows that feature inheritance also takes place in the lower phasal ν . This basically corresponds to a parametric variation among languages, in that if the language is agreement prominent, it highlights the ϕ -features in the ν -V system; but if the language is discourse prominent, it emphasizes its discourse features. This is in clear analogy with the C-T system, and, in line with Jiménez (forthcoming), the prediction is that those languages highlighting agreement features in C-T also give prominence to agreement features in ν -V. On the contrary, if the language puts a special emphasis on discourse features in C-T, it will also give priority to discourse features in ν -V. This proposal will explain the different behaviour of English and Spanish/Greek.

Starting with English, the SC in (56) will show the partial derivation in (57), where we concentrate just on the SC region:

(56) I find these books interesting.



The first issue in this derivation is that little *v* comes from the Lexicon with agreement features, [*u*-pers] and [*u*-num] to be more precise. These ϕ -features percolate down to V in English and they will work in conjunction with the edge feature (EF) under V, so that V will probe a suitable Goal. In its search, V finds the SC DP subject. Via AGREE the unvalued features of V are assigned the values [3-pers] and [pl-num] and the EF will attract the agreed-with category to Spec-VP. Given that V is subsequently raised to *v* in English, the whole derivational process proposed accounts for the order [DP XP] in the SC.²⁹ At the point of the vP phase's transfer into the semantic and phonological components the non-interpretable features under V are deleted.

If discourse features are not given prominence in English, the same pattern [DP XP] is predicted to fulfil the discourse needs in the SC. In terms of the topic – focus partition, sentence (56) maybe used as an answer for either (58) or (59):

(58) Q: What do you find so interesting?

A: I find these books *very interesting*.

(59) Q: How do you find these books?

A: I find *these books* very interesting.

In the absence of any syntactic device to establish a difference between topics and foci, it is the phonological component that will provide the necessary tools to do so. More precisely, if the embedded topic is a

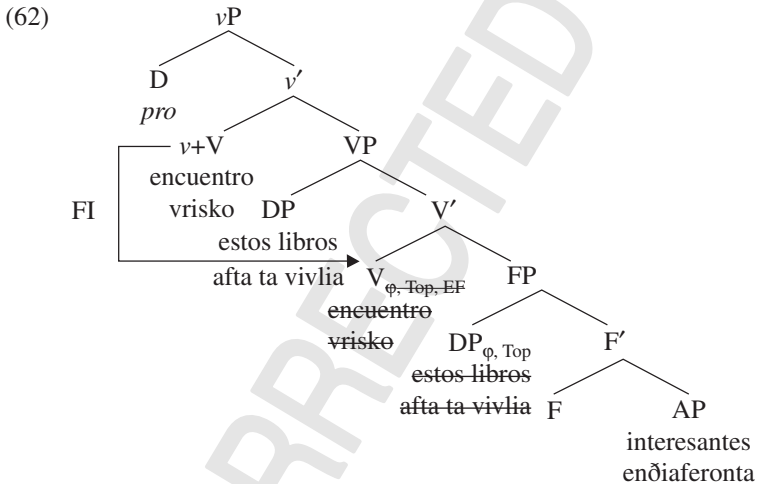
²⁹ Note that raising the SC subject to Spec-VP can be traced back to Postal's (1974) subject-to-object raising in ECM constructions. Recently, Chomsky (2008) has stuck to Postal's original idea of raising. See also Lasnik & Saito (1992), Lasnik (1999 et seq.) and Hong & Lasnik (2010).

Familiar Topic, as we have proposed, the phonological strategy that English uses is de-stressing (Frascarelli & Hinterhölzl 2007).

The other type of language that our proposal predicts is illustrated by Spanish and Greek, in which the rearrangement of the SC members depends on their discourse functions. To exemplify this discourse-related reordering, the derivations of (60–61) are provided in (62–63):³⁰

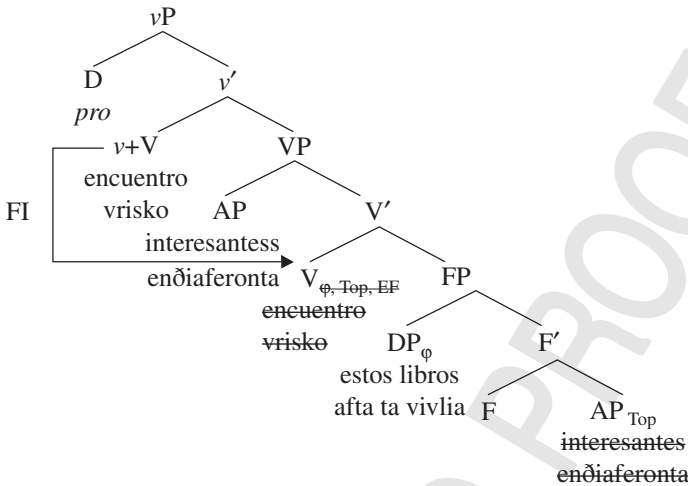
- (60) a. Encuentro estos libros interesantes. (Spanish)
 b. vrisko afta ta vivlia enðiaferonta (Greek)
 find-1SG these the books-ACC interesting-NT.PL.ACC

- (61) a. Encuentro interesantes estos libros. (Spanish)
 b. vrisko enðiaferonta afta ta vivlia (Greek)
 find-1SG interesting-NT.PL.ACC these the books-ACC



³⁰ In the derivations we are not taking into consideration that in languages like Spanish and Greek V raises to T.

(63)



If Spanish and Greek are both agreement prominent and discourse prominent, it is because the two types of grammatical features at issue are given special prominence. Implementing Miyagawa’s (2010) system, this implies that both ϕ -features and δ -features are inherited by V, which parallels the behaviour of the C-T system in Spanish, a welcome result. In (62) the EF works in tandem with all the inflectional features under V. If this is right, just by probing one single constituent the unvalued features will be assigned the values of the Goal, which in this case is the SC subject, thereby being attracted to the edge of VP.

By contrast, in (63) there is a dissociation of features, in such a way that the EF must work in conjunction with just the unvalued δ -feature, which explains why when the SC predicate constitutes background information it is this constituent that is moved to the edge of VP, accounting for the preferred order [XP DP] in the relevant contextual situation.³¹ Evidence that the [XP DP] order is a derived one in Spanish – contra Groos & Bok-Bennema (1985) – comes from binding effects. Building on Ordoñez (1998) and Demonte (1995) works, binding effects are obtained in SCs only if it is accepted that XP is moved to the left of DP, so that [XP DP] is not a basic order:

³¹ Note that the type of discourse feature at issue corresponds to a familiar topic feature. Our analysis of familiar topics takes from Frascarelli & Hinterhölzl (2007) the idea that they move to some position in the periphery, but it departs from their proposal in that they move to a designated FamP. Instead, familiar topics in Spanish and Greek move to Spec-VP after a specific δ -feature is inherited by V.

It should also be clear that the topic feature that we postulate in the VP area can either be satisfied by a topic proper or by background information. The latter is the case when the SC predicate moves to leave the subject in focus position, after Zubizarreta (1998). In this respect, the SC predicate conveys familiar information which is shared by all participants. It is not a topic in the sense of Reinhart (1981).

- 1 (64) a. Considero [a cada niño]_i interesado en su_i juego.
 2 consider-PRES.1SG to each child interested in his/her game
 3 b. Considero interesado en su_i juego [a cada niño]_i.
 4 consider-PRES.1SG interested in his/her game to each child
 5 'I consider each boy interested in his/her game.'

6
 7 The reading of (64b) in which the pronoun *su* 'his/her' is interpreted as
 8 referring to each of the children is possible if the SC subject c-commands
 9 the pronoun. This implies that, originally, the SC predicate *interesado en*
 10 *su juego* 'interested in his/her game' is generated below the SC subject and
 11 then moves up to the matrix VP-area leaving a null copy behind. The
 12 same situation holds in Greek too:

- 13 (65) a. o nikos_j theori to jani_i perifano γja
 14 the Nikos-NOM consider-3SG the John-ACC proud for
 15 ton eafto tu_{i/*j}
 16 himself
 17 b. o nikos_j theori perifano γja ton eafto tu_{i/*j} to
 18 the Nikos-NOM consider-3SG proud for himself the
 19 jani_i
 20 John-ACC
 21 'Nikos considers John proud of himself.'

22
 23 The final question that arises in our discussion is, what about the ϕ -
 24 feature valuation? The dissociation of the features allows them to work
 25 separately from the δ -features; thus the ϕ -features inherited by V probe
 26 the SC subject as a suitable goal. Since these features are not associated
 27 with the EF of V, they are valued via long-distance Agree with the SC
 28 subject.

30 5. Summary and concluding remarks

31 We have proposed a twofold typology of languages, based on the syntax/
 32 discourse properties of SCs: English/French vs. Spanish/Greek. Unlike
 33 languages of the English/French type, in which the order of the SC
 34 constituents is fixed irrespective of the discourse properties, languages of
 35 the Spanish/Greek type allow for constituent order rearrangements
 36 depending on the discourse properties. These constituent order rear-
 37 rangements and their corresponding discourse properties are the follow-
 38 ing:

- 39
 40 (i) DP is neutral and XP is focus: [DP XP] order (no movement of
 41 either member is involved)
 42 (ii) DP is topic and XP is focus: [DP XP] order (movement of DP to
 43 Spec-VP)
 44 (iii) Contrastive Focus on DP: any order may be used.
 45 (iv) Contrastive Focus on XP: any order may be used.

- 1 (v) DP is informational focus: The most felicitous option is the [XP
2 DP] order. If [DP XP] is used, a phonological strategy assigns IF
3 to DP by means of a prominent stress. Here, some contrastive
4 flavour is detected on DP, which may imply that IF and CF
5 converge on DP.
- 6 (vi) When we are asked about the DP, we can also use the pattern
7 [DP XP], but the XP seems to be right-dislocated. Since predicates
8 are not marked with clitics, no clitic appears. In Greek this
9 pattern cannot be used unless the DP is strongly emphasized).
- 10 (vii) When we are asked about the XP, we may also use the [XP DP]
11 order, but the DP is right-dislocated and a clitic is used.

12 In order to account for these facts, we have put forward the hypothesis
13 that in languages of the Spanish/Greek type, the ν head of the ν P phase in
14 which the SC is embedded carries discourse δ -features alongside the φ -
15 features and that both features are inherited by the V head. The δ -
16 features in conjunction with the edge feature of V attracts the element
17 which functions as topic in Spec-VP, deriving the [topic – focus] pattern
18 underlying the constituent order rearrangements observed in these
19 languages. This way, ν P phases are shown to behave like CP phases,
20 which is a welcome result in the light of Chomsky's claim that there is a
21 strict parallelism among phases.

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