

Decomposing EPP effects in Greek enclisis*

1. Introduction¹

The nature of the Extended Projection Principle (EPP) (see e.g. Chomsky 1981 and subsequent literature) has always been controversial within generative linguistics. In this paper I will argue that an approach according to which the EPP is only partially morpho-syntactic in nature (see Landau 2007) is in a better position to account for the complicated facts of finite enclisis in Cypriot Greek (CG). An example illustrating the finite enclisis pattern is provided in (1) below:

- (1) a. Lalí **mu** **to** pkiós?
 Say.3sg me.dat.cl it.acc.cl who.nom
 b. ***Mu to** lalí pkiós?
 c. Pkiós **mu** **to** lalí?
 Who.nom me.dat.cl it.cl.acc say.3sg
 d. *Pkiós lalí **mu to**?
 ‘Who is saying it to me?’

As shown in (1), in the presence of clitics either the verb or a preverbal quantifier has to appear in clause-initial position in order for the sentence to be grammatical. Crucially, though, these two strategies are in complementary distribution, as illustrated in (1d).

In what follows I will show that this characteristic pattern, found in all Tobler-Mussafia languages (i.e. languages with finite enclisis), only concerns constituents which merge (for independent morpho-syntactic reasons) within a particular clausal area. This area immediately extends the XP containing the clitic and the verb, and it is highlighted here in bold (2):

- (2) [CP₃ C₃ [TopP **Top** [CP₂ C₂ [FocusP/WhP **Focus/Wh** [CP₁ C₁ [NegP **Neg** [XP ...{CL, V}...]]]]]]]]

In particular, I will argue that when a constituent X or XP is merged within the said area, V-merger to a head higher than the cliticization site is blocked (*V). This correlates with proclisis:

- (3) [CP₃ C₃ [TopP **Top** [CP₂ C₂ [FocusP/WhP **Focus/wh** [CP₁ C₁ [NegP **Neg** [XP ...{CL, V}...]]]]]]]]
- *V ✓V

* For helpful comments and discussion, at various stages of this work, I wish to thank Yoryia Agouraki, Elena Anagnostopoulou, Idan Landau, Winnie Lechner, Marika Lekakou Arhonto Terzi, as well as the audience at the workshop on the morpho-syntax of Modern Greek dialects, ICGL12 (Freie Universität Berlin). Moreover, I would like to thank two anonymous reviewers as well as the editor of the present volume whose written comments and suggestions enabled me to improve the manuscript. The usual disclaimers apply.

¹ All data used in this paper are taken or adapted from the literature referenced within the text, or elicited from native speakers. Whenever necessary, the exact source is provided next to the example.

I will argue that it is exactly the Economy restriction in (7) that gives rise to the complementary distribution pattern illustrated in (1) above. I will further show that obligatory non-finite enclisis in CG (and Standard Greek (SG)) also involves an Edge Requirement imposed on H, however in this particular case an additional affixal requirement, independently imposed on H within Morphology, blocks the complementary distribution. This fact supports the idea that the PF requirement is prosodic in nature (as morphology cancels out (7) as long as (6) is satisfied). Finally, I will argue that finite enclisis is not found in languages like SG due to the fact that H is parameterized.

This paper is structured as follows: section 2 gives the theoretical background regarding the EPP and introduces the notion of the EPP adopted in this paper. Section 3 offers a detailed presentation of finite enclisis in CG (and of enclisis in CG and SG more generally). Section 4 provides an analysis of the data based on EPP decomposition. Section 5 concludes the discussion.

2. Theoretical background

Researchers have been disagreeing whether the EPP constitutes a theoretical primitive, whether it should be reduced to independent principles such as case or agreement, or whether it should be considered an epiphenomenon and hence abandoned altogether (see e.g. Grohmann, Drury & Castillo 2000; Landau 2007; Lasnik 2003 for an overview). But, what is the EPP? Initially, the EPP was taken to be a grammatical rule ensuring that a finite clause has an overt subject. Within Government and Binding (GB) Theory, this would translate to the requirement that finite T/AGR projects an overt specifier (at least in languages like English):

- (8) a. $[_{TP} *(\text{John}) [_{T'} T [_{vp} \text{sleeps}]]]$. [Finite T]
 b. $[_{TP} \text{John decided } [_{CP} [_{TP} (*\text{Mary}) [_{T'} \text{to } [_{vp} \text{sleep}]]]]]$. [Non-finite T]

Nowadays, this view has changed considerably. First of all, most researchers agree that the EPP applies to any functional head (e.g. C, T, v, n, p) (see e.g. Chomsky 2000, 2001). This follows from the assumption that the EPP is some sort of feature ((non-)categorical, or of a more generalized nature) that is added to one or more morpho-syntactic features, the latter typically being taken to reside within a functional head F (e.g. phi features). The role of the EPP, then, is to trigger overt displacement of an agreeing constituent to F. Moreover, it is standardly assumed that: (a) satisfaction of the EPP may be parameterized, in that languages may differ in whether a head X or a phrase XP can satisfy the EPP at F (see e.g. Alexiadou & Anagnostopoulou 1998 for V-to-T movement in pro drop languages satisfying a D-feature on T); (b) the X or XP satisfying the EPP may be phonologically overt or covert (e.g. PRO or pro), as what is at issue is merger of an abstract feature bundle.

Despite the general consensus that the EPP has a morpho-syntactic basis, it has been pointed out that the EPP is directly related to a semantic and/or PF effect (see Landau (2007: introduction) for an overview), on empirical and theoretical grounds. Landau (2007) goes one step further and argues (on the basis of various empirical phenomena traditionally attributed to the ECP, as well as cases of null-headed specifiers) that the EPP has properties which clearly

differentiate it from other morpho-syntactic features in terms of a number of parameters, including locality and headedness. In particular, he proposes that the EPP is a selectional PF/[p] feature which is parasitic on some morpho-syntactic feature. This PF feature must be satisfied (at PF) via the spell-out of (the head of) an appropriate (morpho-syntactic) copy (i.e. a copy which satisfies locality and headedness).³ PF approaches to the EPP have also been proposed by other researchers (e.g. Holmberg 2000; Manzini & Savoia 2002; Richards 2016; Roberts & Roussou 2002; Sigurdsson 2010).

If the EPP involves a PF requirement, one issue that arises is how to model it within current theories of the syntax-PF interface. This would include, among others, the use of a PF diacritic in syntax (which would instruct PF to realize a certain feature (bundle)), as well as the nature of PF (e.g. can PF move items, or it only has a filtering role - see Bošković 2001 for a comparison of various possible syntax - PF interface models; wrt. the EPP see Landau 2007; Pesetsky 1998; Richards 2010, 2016). Although it is not as yet clear whether it is feasible, theoretically and empirically, to have a purely PF requirement or not, what most researchers agree on is that PF should be as much restricted as possible. A second question revolves around any possible realizational interactions between an XP and an X merged at a certain functional head. In particular, it has been pointed out in the literature that cross-linguistically the spec and head of a projection need not (and, by economy, must not) be realized phonologically at the same time (although one of them must be spelled-out - see e.g. Speas 1995). This restriction is more generally known as the doubly filled Comp filter (see Chomsky and Lasnik 1977), however it is found also in other domains besides the CP, as illustrated in (9-12) below:

CP domain (Pesetsky 1998)

- (9) a. *[_{DP} The man [_{CP} who [_{C'} C that [_{IP} I saw (who)]]]]].
 b. The man who I saw.
 c. The man that I saw. [English]
- a'. *[_{DP} O άνθρωπος [_{CP} τον οποίο [_{C'} C που [_{IP} ίδα (τον οποίο)]]]]].
 The man.nom the whom.acc that saw.1sg (the whom.acc)
 b'. O άνθρωπος τον οποίο ίδα.
 c'. O άνθρωπος που ίδα. [SG]

T(P) domain [pro drop] (Alexiadou & Anagnostopoulou 1998)

- (10) a. *[_{TP} O Νίκος [_{T'} T έfiye [_{VP} ...]]]
 b. [_{TP} O Νίκος [_{TP} pro [_{T'} T έfiye [_{VP}...]]]]
 c. [_{TP} [_{T'} T Έfiye [_{VP} o Νίκος]]] [SG]

v(P) domain [clitic doubling] (Alexiadou & Anagnostopoulou 1997; Kupula 2011; Sportiche 1992/1998)

³ A reviewer asks what position Landau takes concerning the classic version of the EPP (see (8) above). As far as I understand Landau (2007), the classic EPP would be a subcase of [p] feature satisfaction on T by a local overt head or (head of a) spec.

- (11) a. *_{[VP Ton Níko [_{VP} pro [_V V-v ton íðe [_{VP} [_V (V) (ton) (ton Níko)]]]]]]}
- b. _{[VP pro [_V V-v ton íðe [_{VP} [_V (V) (ton) ton Níko]]]]}
- [SG]

P(P) domain [r-pronouns in English] (Collins 2007; Nchare & Terzi 2014)

- (12) a. *_{[I went [PP there [P' to P (there)]]]}
- b. _{[I went [PP there [P' Ø P (there)]]]}
- [English]

This pattern involves complementary distribution, strict locality (i.e. the X or XP must spell-out F locally), and wide distribution (i.e. it applies (to a certain – typically higher- head) across functional domains).⁴

In what follows I will propose that enclisis in CG and SG also falls within the realm of the EPP, as described above. Such an approach groups enclisis together with phenomena such as pro drop, doubly-filled comp filter effects, clitic doubling, stylistic fronting, as well as that-trace effects, in that all of these involve a complementary distribution of phonologically realized constituents that are in a local relationship.

3. Enclisis in CG and SG

3.1 Overview

I will start the discussion by giving an overview of (linear) enclisis in CG and SG (for phonological proclisis/enclisis see Klavans 1985; for CG see Revithiadou 2006, 2007. For descriptions of CG enclisis see Agouraki 1997, 2001, 2010; Chatzikyriakidis 2010, 2012; Condoravdi & Kiparsky 2001; Mavrogiorgos 2010, 2013; Pappas 2004; Philippaki-Warburton 1995, 1998; Revithiadou 2006, 2007; Rivero 1994; Rivero & Terzi 1995; Terzi 1999a,b). The main generalization to keep in mind is the following: in SG enclisis strictly correlates with lack of person and/or restricted person specification on the verbal host (see Mavrogiorgos 2010). In CG, on the other hand, enclisis correlates with properties of the left periphery of the clause, and only residually with lack of person and/or restricted person on the verbal host.

More specifically, in SG a clitic (cluster) immediately precedes or follows the verbal host, depending on the finiteness properties of the latter:

- (13) a. O Jánis **tin** ayapái ti María.
 The Janis.nom her.acc.cl love.3sg the Maria.acc
 'John loves her, Mary.'
- b. Jáni, ayápa **tin** ti María!
 John.voc, love.imp.impf.2sg her.acc.cl the Maria.acc
 'John, love Mary!'

CG also has obligatory enclisis with non-finite verbal hosts:

⁴ Moreover, it seems to differ from criterial effects (see Rizzi 1996), where both the spec and the head of a projection are realized overtly (although, crucially, they do not have to). This may be the case because the relevant spec and head do not get *spelled-out* in the same phrase, or because languages with criterial effects allow for feature bundling (hence, the spec and head each realize a distinct feature at the same location). This is an issue open for further research.

- (14) a. Esí, θkiávase to!
 You.voc, read.imp.perf.2sg it.acc.cl
 'You read it!'
 b. Θkiavázondàs to eyó...
 reading it.acc.cl I.nom...
 'I reading it...'

With finite verbal hosts, however, CG has enclisis, which is the default situation:

- (15) a. Eθkiávasèn **mas** to i María.
 Read.3sg us.dat.cl it.acc.cl the Maria.nom
 'Mary read it to us.'
 b. Eθkiávasèn **mas** to i María?
 Read.3sg us.dat.cl it.acc.cl the Maria.nom
 'Did Maria read it to us?'

Proclisis typically arises if some preverbal constituent of a particular type *c-commands* the finite CL, V cluster. Depending on the phrase structure status of the c-commanding constituent, the following sub-cases can be distinguished (see also Mavrogiorgos 2013 for Tobler – Mussafia languages more generally) (preverbal constituents are in *italics*; clitics are in **bold**):

(a) the c-commanding constituent is an XP

Typically, this sub-type involves either operator phrases and/or stressed phrases (including wh-phrases, verum focus phrases, and contrastive focus phrases).⁵ Note that if the relevant XP does not c-command the CL, V cluster, enclisis obtains:

- (16) a. *Pkiós* **to** eθkiávasen? [subject wh-phrase]
 Who.nom it.acc.cl read.3sg
 'Who read it?'
 b. Eθkiávasèn **to** *pkiós*? [subject wh-phrase in situ]
 'Read it who?'
 c. *Tí* **tu** éðoke? [object wh-phrase]

⁵ Preverbal negative phrases (which are typically stressed) also trigger proclisis. However, they also require the presence of a negation particle (negative concord), which immediately precedes the CL, V cluster and which independently triggers proclisis (as cases with post-verbal negative phrases (ii) reveal):

- (i) *Típota en* **mu** éðoke.
 Nothing neg me.dat.cl gave.3sg
 (ii) *En* **mu** éðoke *típota*.
 'S/he did not give me anything.'

As they are not revealing, negative phrases are not discussed in this paper. On the other hand, (i) poses a potential complication for the approach defended here: if both *en* and *típota* merge at H, this would contradict the generalization made in section 3.2.2., namely that the PF requirement on H is subject to an Economy Condition. In this respect, note that it is likely that *típota* is spelled-out in the spec of a separate Focus head (cf. that it is obligatorily stressed). Alternatively, we could assume that the non-affixal status of the negative particle enforces spell-out of H in the presence of an overt spec (i.e. Morphology overrides the Prosodic Constraint, the latter being subject to the Economy Condition (and see also section 4.3).

What.acc him.dat.cl gave.2sg
 ‘What did you give him?’
 d. *Éðokès tu tí?* [object wh-phrase in situ]
 ‘You gave him what?’

- (17) a. *EFÓ to éðoka, oi i María.* [stressed subject phrase]
 I it.acc.cl gave.1sg not the Maria.nom
 b. *Éðokà to EFÓ, oi i María.* [stressed subject phrase in situ]
 ‘I gave it, not Mary.’
 c. *TÚto mu éðoke.* [stressed object phrase]
 THIS.acc me.dat.cl gave.3sg
 d. *Éðokè mu TÚto.* [stressed object phrase in situ]
 ‘THIS is what he/she gave me.’
- (18) a. *kaLÁ to lalún.* [stressed adverb]
 WELL it.cl.acc say.3pl
 b. *Lalún to kaLÁ.* [stressed adverb in situ]
 ‘They say it correctly’.

Note that there are certain preverbal XPs that give rise to enclisis. These XPs (which include D-linked wh-phrases (19d) (see Revithiadou 2006: 83 (her 4b’))) are typically interpreted as topics and must be cliticized when they function as objects. Note that contrastive topics (19e) are typically stressed, which means that the presence of a stressed preverbal XP is not a sufficient condition for proclisis:

- (19) a. *I María ípen mu óti...* [subject topic]
 The Maria.nom said.3sg me.dat.cl that...
 ‘Mary told me that...’
 b. *Tsínu ípen tu i María oti...* [IO topic]
 that.one.gen said.3sg him.dat.cl the Maria.nom that
 ‘That one, Mary told him that...’
 c. *Túto ípen tu to i María.* [DO topic]
 this.acc said.3sg him.dat.cl it.acc.cl the Maria.nom
 ‘This, Mary said it to him.’
 d. *Pjós pu úlus tus anthrópus eθkiávasèn to?*
 Who.nom from all the people.acc read.3sg it.acc.cl
 ‘Which one of all the people read it?’ [D-linked subject wh-phrase]
 e. *Tu Kósta éðokà tu to mávro vivlío,*
 The Kósta.dat gave.1sg him.dat.cl the black.acc book.acc
tse tis Marías éðokà tis to áspro.
 and the María.dat gave.1sg her.dat.cl the white.acc [Contr topic]

‘As for Kostas, I gave him the black covered book, and as for Maria, I gave her the white covered one.’

(b) the c-commanding constituent is an X

This sub-type typically involves preverbal particles such as negation and modality markers, or alternatively certain complementizers.

- (20) a. *En to* íksera. [negation particle]
 NEG it.acc.cl knew.1sg
 'I did not know it.'
- b. *Θέλο na sas* po túto. [subjunctive particle; embedded]
 want.1sg SUBJ you.dat.cl say.1sg this.acc
 'I want to tell you this.'
- c. *Na sas* po túto. [subjunctive particle; main]
 SUBJ you.cl.gen say.1sg this.acc
 'Allow me to tell you this.'
- d. *Έννα sas* po túto. [future particle]
 FUT you.dat.cl say.1sg this.acc
 'I will tell you this.'
- e. *Πέρκι su to* féri. [modality marker]
 Maybe you.dat.cl it.acc.cl bring.3sg
 'Maybe he/she will bring it to you.'
- f. *Ípen pos/óti⁶ to* éfere i María. [Comp]
 Said.3sg that it.acc.cl brought.3sg the Maria.nom
 'He/she said that Maria brought it.'
- g. *Έíji pollús anθrópus pu tin* ksérun. [Comp]
 Have.3sg many.acc people.acc that her.acc.cl know.3pl
 'There are many people that know her.'
- h. *En kséro an ton* ayapái i María. [Comp]
 NEG know.1sg whether him.acc.cl love.3sg the Maria.nom
 'I do not know whether Mary loves him.'
- i. *Άμα me* íðe i María... [Comp]
 when me.acc.cl saw.3sg the Maria.nom
 'When Maria saw me...'

c) two or more c-commanding constituents:

An important question is what happens when there are more than one preverbal constituents present. The following patterns apply: (i) when both an *X* and (at least) one *XP* precede the clitic (cluster), it is the closest c-commanding constituent that determines the position of the clitic (cluster) in relation to the verbal host:

- (21) a. *Ípen óti tu* éðoken to vivlío i María.
 Said.3sg that him.dat.cl gave.3sg the book.acc the Maria.nom
 'S/he said that Mary gave him the book.' [Comp]
- b. *Ípen óti i María* éðokèn *tu* to vivlío.
 Said.3sg that the Maria.nom gave.3sg him.dat.cl the book.acc
 'S/he said that Mary gave him the book.' [Comp, topic]
- c. *Ípen óti ESÍ tu to* éðokes to vivlío.
 Said.3sg that YOU.nom him.dat.cl it.cl.acc gave.2sg the book.acc

⁶ I will return to the specifics of the complementizer *óti* (and of similar complementizers) later on in the paper (see 3.2.2).

oi i María.
 not the Maria.nom
 ‘S/he said that it was you that gave the book to him, not Mary.’
 [Comp; stressed phrase]

In (21a) a complementizer immediately precedes the clitic (cluster) and triggers proclisis. When a preverbal subject topic intervenes between the same complementizer and the clitic (cluster) (cf. 21b), enclisis obtains. When the intervening phrase is a stressed subject (as in 21c), proclisis obtains. What these examples show is that the proclisis effect of a complementiser can be cancelled out in the presence of an intervening phrase that normally triggers enclisis.

The same principle applies when (at least) two XPs precede the clitic (cluster): it is the XP closest to the clitic (cluster) which determines the position of the clitic. Consider the following sentences:

- (22) a. *Pkiós tin íðe ti María?*
 who.nom her.acc.cl saw.3sg the Maria.acc
 ‘Who saw Mary?’ [wh-phrase]
- b. *Ti María íðen tin pkiós?*
 The Maria.acc saw.3sg her.acc.cl who.nom
 ‘As for Mary, who did you say saw her?’ [topic]
- c. *Ti María pkiós tin íðe?*
 The Maria.acc who.nom her.acc.cl saw.3sg
 ‘Mary, who saw her?’ [topic; wh-phrase]
- d. *O Nikólas emílisèn tis.*
 The Nicholas.nom talked.3sg her.dat.cl
 ‘Nicholas talked to her.’ [topic]
- e. *Tis Marías o Nikólas emílisèn tis.*
 The Maria.dat the Nicholas.nom talked.3sg her.dat.cl
 ‘As for Mary, Nicolas talked to her.’ [topic₁; topic₂]
- f. *O Nikólas tis Marías emílisèn tis.*
 The Nicholas.nom the Mary.dat talked.3sg her.dat.cl
 ‘As for Mary, Nicholas talked to her.’ [topic₂; topic₁]
- g. *Tis Marías o NiKÓLAS emílisèn tis.*
 The Maria.dat the NiKÓLAS.nom talked.3sg her.dat.cl
 ‘As for Mary, Nicholas talked to her.’ [topic; stressed phrase]

While a preverbal wh-phrase triggers proclisis (22a), a preverbal topic phrase triggers enclisis (22b). The crucial piece of data is (22c): here a wh-phrase triggers proclisis even though it is preceded by a preverbal topic, which suggests that it is the XP closest to clitic-cluster (in this case, the wh-phrase) that determines the position of the clitic.⁷ The same effect is illustrated with preverbal topics (22d-f), which trigger enclisis, and an intervening stressed phrase (22g), which triggers proclisis.

⁷ Note that the opposite order (namely, wh-phrase >> topic) is suboptimal in CG:

(i) *?*Pkiós ti María tin íðe?*

For this reason, it is not possible to test this order against the hypothesis put forward here.

To summarize, in this section I have shown that, unlike SG, in CG the position of the clitic before or after the verbal host typically correlates with the *spell-out* position of certain preverbal CP-related XPs and/or Xs (and only residually with the person specification of the verbal host).

3.2 Patterns in the data: The EPP-like distribution of finite enclisis⁸

3.2.1 Preverbal XPs and modality/negation Xs

In this section I will argue that the CG data described earlier have the EPP distribution (see sections 1 and 2), in that enclisis only shows up whenever the specifier or head of a certain functional head is not independently spelled out.

By way of reminder, CG has proclisis when some preverbal operator and/or stressed XP (23a) or some preverbal Comp/Modal/Neg head (23b) c-commands the CL, V cluster, otherwise it has enclisis (23c):

- (23) a. **XP**_[Focus/WH] [CL V]
 b. **X** _[Comp/Mod/Neg] [CL V]
 c. # [V CL]

On the other hand, a Topic XP gives rise to enclisis, and the same applies to certain complementisers:

- (24) a. **XP**_[Topic] [V CL]
 b. **X** _[Comp] [V CL]

There are two main interesting facts regarding (23) and (24): first, the proclisis-enclisis alternation seems to correlate with various types of features, which do not constitute a natural class, morpho-syntactically and/or semantically.⁹ Second, all these features are typically considered to be projected above the phrase where the CL, V cluster is located, i.e. at the CP-TP border. Leaving the first issue aside for the moment (but see section 4 below), it would be useful to see whether the projections hosting the relevant features form some kind of contiguous domain or not. In this regard, Rizzi's (1997) cartographic enterprise (and much subsequent work after that) offers us a useful localization tool.

In particular, Rizzi (1997) has pointed out that cross-linguistically Topics are generally merged higher than preverbal focused/stressed phrases and/or wh-phrases. It has been shown by various researchers (see e.g. Iatridou 1991; Anagnostopoulou 1997; Roussou 2000 among many others) that this also applies to SG, and the same seems to be the case also for CG, given the data presented in section 3.1 (and see the following sentences which illustrate the fact that the reverse order is ungrammatical):¹⁰

⁸ This section was restructured following suggestions made by the editor, who is hereby acknowledged.

⁹ To illustrate with one example, there is no single operation that we know of which is contingent on the presence of a (non-wh) comp or a wh-operator.

¹⁰ Note that D-linked wh-phrases behave like other preverbal topics in that they trigger enclisis and may co-occur with other topics (iii-iv). However, the fact that a D-linked wh-phrase cannot co-occur along with a wh-phrase (i) (as opposed to non-wh topics, which can (ii)), suggests that at some point during the derivation the D-linked wh-phrase must be in WhP/Foc:

- (25) a. *Tu Kósta tí tu éðokes?*
 The Kosta.dat what.acc him.dat.cl gave.2sg
 b. **Tí tu Kósta tu éðokes?*
 ‘What did you give to Kostas?’
 c. *Tu Kósta TÚTO tu éðoka.*
 The Kosta.dat THIS.acc him.dat.cl gave.1sg
 d. **TÚTO tu Kósta tu éðoka.*
 ‘To Kostas, THIS is what I gave him.’

Moreover, negation and modal particles are merged lower than preverbal foci or wh-phrases in SG (see Roussou 2000 and references therein), and the same applies to CG, as illustrated below:

- (26) a. *Tu Kósta pkiós na min tu to ðóki?*
 The Kosta.dat who.nom SUBJ NEG him.dat.cl it.acc.cl give.3sg
 ‘To Kostas, who should not give it to him?’
 b. *Tu Kósta pkiós éнна tu to ðóki?*
 The Kosta.dat who.nom FUT him.dat.cl it.acc.cl give.3sg
 ‘To Kostas, who will give it to him?’
 c. *Tu Kósta o ΓΙÓRkos na tu to ðóki.*
 The Kosta.dat the GEORge.nom SUBJ him.dat.cl it.acc.cl give.3sg
 ‘To Kostas, it is GEORge that should give it to him.’
 d. *Tu Kósta o ΓΙÓRkos éнна tu to ðóki.*
 The Kosta.dat the GEORge.nom FUT him.dat.cl it.acc.cl give.3sg
 ‘To Kostas, it is GEORge that will give it to him.’

The partial order in the CG preverbal field is, thus, as follows:

- (27) *TopP WhP/FocusP Mod/Neg {CL, V}*

(27), in combination with the data presented in section 3.1, lead to the following descriptive generalization (to be further revised):

Generalization 1:

(28) *Merger of a constituent (X or XP) above the CL, V cluster up to TopP triggers proclisis.*

In other words, in CG the proclisis-enclisis alternation appears to correlate with the structural cut-off point between old and new information. In the following section the position of complementizers is discussed.

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- (i) **Pjós pu úlus tus mathités póte to eθkiávasen?*
 Who.nom from all the students.acc when it.acc.cl read.3sg
 ‘*Which one of all the students when read it?’
- (ii) *Túto to vivlío póte to eθkiávasen?*
 This.acc the book.acc when it.acc.cl read.3sg
 ‘This book, when did s/he read it?’
- (iii) *Túto to vivlío pjós pu úlus tus mathités eθkiávasèn to?*
 This.acc the book.acc who.nom from all the students.acc read.3sg it.acc.cl
 ‘This book, which one of all the students read it?’
- (iv) *Pjós pu úlus tus mathités túto to vivlío eθkiávasèn to?*

3.2.2 Complementizers

As it has been pointed out earlier, complementizers in CG may trigger proclisis (a), although some trigger both proclisis and enclisis (b), while some trigger only enclisis (c) (see Agouraki 2001; Chatzikyriakidis 2010; 2012; Revithiadou 2006, 2007):

- (29) a. *Lipúme pu tin íðes /*íðes tin étsi.*
 Be.sorry.1sg that her.acc.cl saw.2sg/*saw.2sg her.acc.cl thus
 ‘I am sorry that you saw her like this.’
 b. *Epiðí ayapá tin /tin ayapá, féрни tis lulúθkia.*
 Because love.3sg her.acc.cl/her.acc.cl love.3sg bring.3sg her.dat.cl flowers
 ‘Because he loves her, he brings her flowers.’
 c. *An dze θéli ton /*ton θéli,*
 If and want.3sg him.acc.cl /him.acc.cl want.3sg
en tu to léi.
 not him.dat.cl it.acc.cl say.3sg
 ‘Although she wants him, she does not let him know.’

Starting from the non-optional cases in (a) and (c) above, the issue here is that two distinct complementizers, presumably merged in the same structural position (i.e. C), trigger either proclisis (a) or enclisis (c). This may suggest that the position of the clitic before or after the verb is not related to the structural position of the complementizer, clearly a counter-intuitive outcome. Fortunately, it has been shown that some embedded/dependent clauses exhibit more root-like properties as opposed to others (see e.g. Emonds 2004, Iatridou & Kroch 1992), a difference plausibly linked to the higher vs. lower position of the complementizer introducing the embedded clause in each case. In other words, not all complementizers seem to be merged in the same structural position, a conclusion that has been independently reached by the cartographic approach on the basis of various empirical phenomena, including recomplementation phenomena in languages that allow them (e.g. Spanish, European Portuguese, Italian or English varieties), but also wrt. cases where preverbal topics or foci may precede a (low) complementizer. In this respect, consider the following sentences from SG (examples adapted from Roussou 2000):

- (30) a. *Ípan ton Níko pos ton íðe i María.*
 Said.3pl the Nick.acc that him.acc.cl saw.3sg the Maria.nom
 b. *Ípan pos ton Níko ton íðe i María.*
 ‘They said that as far as Nick is concerned, Mary saw him.’
 c. *Me rótisan ton JÁNI an θélo na ðo.*
 Me.dat.cl asked.3pl the JOHN.acc if want.1sg SUBJ see.1sg
 d. *Me rótisan an θélo ton JÁNI na ðo.*
 e. *Me rótisan an θélo na ðo ton JÁNI.*
 ‘They asked me if it was John that I wanted to see.’

These sentences illustrate the fact that in SG a preverbal object topic or focus may precede or follow certain complementizers (here *pos*, *an*, and *na*). It has been argued (see Roussou 2000) that when a preverbal focus or topic phrase

precedes the complementizer (cf. 30 a & 30 c-d), the latter is merged low (i.e. close to what Rizzi 1997 dubs the CFin). The opposite would hold for those cases where the focus or topic phrase follows the complementizer (30 b & e). On the basis of this background, we could further hypothesize that in (29a) the complementizer *pu* is merged low and triggers proclisis (presumably because a low comp blocks V-movement across the cliticization site), whereas in (29c) the complementizer *an dze* is merged high and triggers enclisis. According to this hypothesis, variation in the structural position of the complementizer directly correlates with variation in the structural position of the clitic (and therefore with proclisis – enclisis). This would be a welcome result, as in the previous section we saw that the structural position of preverbal XPs, and Xs other than complementizers (e.g. the negation head) does correlate with the proclisis-enclisis alternation. So, what is the evidence for this hypothesis?

Although there is much we do not know about the left periphery of CG clauses, we may assume that CG and SG are similar in this respect. Starting from cases of obligatory enclisis (29c), what is interesting about the complementizer *an dze* is that it is composed of two independently existing homophonous morphemes, namely the complementizer *an* ('if') and the conjunction *dze* ('and'). Whereas *an* typically correlates with proclisis, *dze* always triggers enclisis. On the other hand, *an dze* (on its own) triggers enclisis (and the same applies to other complex complementizers containing *dze*; see also Agouraki 2001; Chatzikiyriakidis 2012). Why should this be the case? Assuming that *an dze* is a conjunction-like element might provide an answer to this question, as bona fide conjunctions are associated with enclisis when they conjoin clauses (31):

- (31) a. Θ avmázo **ton** dze ektimó **ton**.
 admire.1sg him.acc.cl and appreciate.1sg him.acc.cl
 'I admire and appreciate him.'

The standard intuition is that the conjunction in (31) does not count as being part of the second clause (and see Schütze 2004 and references therein for second position cliticization). However, there are reasons to believe that *an dze* in (29c) is a complementizer, and not a conjunction. For example, (29c) is rendered ungrammatical if one deletes *an dze* or *an*, but not if one deletes *dze*. Moreover, *dze* on its own may assume a complementizer-like use, in which case it triggers enclisis and cannot be deleted (while keeping the reading constant):

- (32) a. Píye dze éđokèn **tis** **to**.
 Went.3sg and gave.3sg her.dat.cl it.acc.cl
 'S/he went and gave it to her.'
 b. Akúí **tin** dze lalí **tu** óti...
 listens.3sg her.acc.cl and tells.3sg him.dat.cl that
 'He hears her telling him that...'

If *an dze* is a high complementizer (what Rizzi 1997 calls 'a subordinator' or CForce), one prediction is that it should precede preverbal topics and/or foci as well as preverbal particles such as negation. This prediction is borne out, as illustrated by the following examples (and similar facts would apply to other

complementizers containing *dze*, although this is not shown here due to lack of space):

- (33) a. *An dze ton Giórkon* θέλι **ton**...¹¹
 If and the George.acc want.3sg him.acc.cl
 ‘Although she wants George...’
 b. *An dze o Giórkos KÁTI* **tis** έδοκε...
 If and the George.nom SOMETHING.acc her.dat.cl gave.3sg
 ‘Although George gave her SOMETHING...’
 c. *An dze en to* θέλι ...
 If and NEG it.acc.cl want.3sg
 ‘Although s/he does not want it...’

Given the high comp status of *an dze* and the fact that it always triggers enclisis, we may assume that its high structural position is causally linked to clitic positioning.

To see if this is indeed the case, let us move on to (29a) which involves a factive *pu*, repeated here for convenience:

- (34) *Lipúme pu tin* ίδes / *ίδes **tin** έτσι.
 Be.sorry.1sg that her.acc.cl saw.2sg / *saw.2sg her.acc.cl thus
 ‘I am sorry that you saw her like this.’

This is an example of a complementizer which (on its own) triggers obligatory proclisis.¹² This should follow from its low (< ToP) structural position. An immediate problem for this hypothesis is that *pu* obligatorily precedes preverbal topics:

- (35) a. *Lipúme pu tu Kósta en tu* emílises.
 Be.sorry.1sg that the Kosta.dat not him.dat.cl spoke.2sg
 ‘I am sorry that to Kostas (that) you did not speak to him.’
 b. ?**Lipúme tu Kósta pu en tu* emílises.

One could assume that *pu* in (35a) checks some feature below TopP before moving on to some pre-topic position, and that its copy is sufficient to trigger proclisis. However, this would predict that we should get proclisis independently of the nature of the constituents preceding the clitic cluster, contrary to fact:

¹¹ Note that a topic phrase preceding *an dze* is ungrammatical, unless it is construed as a main clause topic (in which case it cannot belong to the clause introduced by *an dze*):

- (i) *An dze ton Giórkon en ton* θέλι, *eyó en tis* miláo.
 If and the George.acc NEG him.acc.cl want.3sg, I NEG her.dat.cl speak.1sg
 (ii) **Ton Giórkon an dze en ton* θέλι, *eyó en tis* miláo.
 (iii) *Tis Mariás, an dze ton Giórkon en ton* θέλι, *eyó en tis* miláo.
 The Maria.dat if and the George.acc NEG him.acc.cl want.3sg I NEG her.dat.cl speak.1sg
 ‘Although Maria does not want George, I do not speak to her.’

¹² Other complementizers of the same type include relative *pu* (‘that’), interrogative and conditional *an* (‘if’), as well as complementizers introducing temporal adjunct clauses (e.g. *ama* (‘when’), *pu* (‘when’), or *prin* (‘before’)).

- (36) Lipúme *pu tu Kósta (pu) emílises tu* /**tu emílises*.
 Be.sorry.1sg that the Kosta.dat (*that*) spoke.2sg him.dat.cl
 'I am sorry that to Kostas (that) you talked to him.'

(36) shows that a preverbal object topic triggers enclisis in the presence of *pu*. If *pu* had originated below *tu Kósta* (cf. the copy of *pu*), and if a copy were a sufficient condition to trigger proclisis, we would expect proclisis to be possible, contrary to fact. This suggests that the spell-out position of *pu* is the crucial factor. Moreover, it suggests that proclisis in (35a) is due to the presence of negation rather than to the presence of (a copy of) *pu*. The immediate question that arises is how to account for simple cases like (34), and like (37) below: if *pu* is merged/spelled out high, then how is it possible that it triggers proclisis?

- (37) Lipúme *pu tu* emílises.
 Be.sorry.1sg that him.dat.cl spoke.2sg
 'I am sorry that you spoke to him.'

There are at least two plausible ways to deal with this issue. One alternative would be to assume that *pu* is always merged/spelled-out high, but whether enclisis or proclisis obtains depends on whether *pu* is contained or not within the same prosodic domain as the clitic (cf. that CG clitics cannot appear at the edge of some prosodic domain). If the presence of a preverbal topic blocks this particular prosodic phrasing (a straightforward assumption, given what we know about the prosody of preverbal topics), it would explain why enclisis obtains in (36) (there is no host for the clitic within the prosodic domain containing it), as well as why proclisis obtains in (35a) (the negation particle and the clitic are merged/spelled-out within the same prosodic domain, independently of *pu*). A second alternative would be to claim that *pu* always merges low, triggering proclisis. Any difference would follow from the amount of structure *pu* merges with in each case: whereas in (37) *pu* merges with a clausal chunk that only contains {Cl, V} (presumably, a TP/INFLP, given standard assumptions on cliticization, and see also section 4), in (35) and (36) it merges with a bigger clausal chunk (namely, one that contains {Top, Cl, V} (presumably, a TopP)). Assuming this is correct, a complementizer like *pu*, which triggers proclisis when on its own, would be free to merge with clausal chunks of variable sizes (including a TP/INFLP). On the other hand, a (high) complementizer like *an dze*, which triggers enclisis when on its own, would be free to merge with any constituent *besides* TP/INFLP.

Why this would be the case is far from clear. What strikes me as important is that both alternatives propose more or less the same thing, but also face a similar problem. In particular, both argue that a proclisis trigger (which includes complementizers like *pu*) needs to form a contiguous domain with the clitic (cluster), although the nature of this domain differs depending on the alternative (syntactic vs. prosodic). In any other case, enclisis obtains. The problem that both seem to be facing is that whereas *pu* is able to count as part of the prosodic or clausal chunk that contains inflectional information (including the clitic) (either via prosodic restructuring, or due to merger with TP/INFLP), this is not the case for *an dze*, which seems to be separated from it by some sort of barrier. This is an unavoidable conclusion, and it does correlate with clitic

positioning. In addition, it is compatible with the intuition that whether some constituent counts as a proclisis trigger or not ultimately reduces to hierarchical structure (namely, its structural position), which was the essence of our working hypothesis (under the assumption that syntactic structure is directly related to prosodic structure).¹³ For all these reasons, I will treat *pu*, and similar complementizers, as being able to merge below TopP.

That the structural position of a complementizer is crucial for clitic positioning is most clearly evident in the case of optional complementizers. An example of an optional complementizer was provided in (29b), which is repeated here for convenience:

- (38) *Epiðí* ayapá **tin** /**tin** ayapá, féрни **tis** lulúθkia.
 Because love.3sg her.acc.cl/her.acc.cl love.3sg bring.3sg her.dat.cl flowers
 ‘Because he loves her, he brings her flowers.’

In CG, optional complementizers include among others *óti* and *pos* ‘that’, or *epiðí* and *yiati* ‘because’ (see also Agouraki 2001; Chatzikiyriakidis 2012; Revithiadou 2016). Their common property is that they seem to be compatible with both proclisis and enclisis. One way to capture these facts is by postulating that optional complementizers may be either low or high: a low complementizer (or, given the discussion in the previous paragraph, a complementizer that may merge with TP/INFLP) triggers proclisis, as opposed to a high complementizer (or, alternatively, a complementizer that cannot merge with TP/INFLP), which triggers enclisis. This hypothesis is consistent with the overall empirical picture, given that low - only complementizers trigger proclisis, as opposed to high - only ones, which trigger enclisis.

One piece of evidence in favour of this analysis is the fact that high vs. low complementizers also correlate with semantic/pragmatic differences (besides prosodic/phonological differences). This suggests that they involve distinct morpho-syntactic features (a fact that increases the chances they are merged in distinct positions).¹⁴ Consider the following pair of sentences from Asturian, a language that behaves like CG as far as finite enclisis is concerned:

- (39) a. Digo *qu* ‘ayúdame [#pero nun toi seguru].
 say.1sg that help.3sg-me.cl [#but not am sure]
 ‘I say that s/he helps me, #but I am not sure (that s/he does help me).’
 b. Digo *que me* ayuda [pero nun toi seguru].
 Say.1sg that me.cl help.3sg [but not am sure]
 ‘I say that s/he helps me, but I am not sure (that s/he does help me).’

[Asturian; Fernández-Rubiera 2013: 79 (his (50))]

¹³ This conclusion would be further supported, if at least some of the complementizers that trigger proclisis could be shown to allow preverbal constituents, including topics and foci. This is an issue for further research.

¹⁴ In this respect, see Pesetsky & Torrego (2001), who propose a double C analysis for Spanish embedded questions (on the basis of featural content), which among others account for the lack of that-trace effects in Spanish. Interestingly enough, both CG and SG have H (see section 4.3), lack that-trace effects, and have obligatory V-to-T movement. Thanks to an anonymous reviewer for pointing out this link to me.

According to Fernández-Rubiera, enclisis in (39a) correlates with a high Comp (which does not block V-movement to CFin), which in turn correlates with epistemic modality (i.e. the speaker asserts that the reported content is true) and enclisis. (39b), on the other hand, correlates with a low Comp (which blocks V-movement to CFin), which in turn also correlates with epistemic modality (in this case the speaker does not assert the truthfulness of the reported content) and with proclisis. Similar semantico-pragmatic effects have been reported for embedded V2 in Germanic languages (see e.g. Meinunger 2006; Truckenbrodt 2006), and they have been linked to the root vs. non-root distinction. More importantly, they seem to hold also in CG. In this respect, consider the following sentences:¹⁵

- (40) a. Léyo *óti* evoíθisèn **me** [#ma en íme síyuros].
 say.1sg that helped.3sg me.acc.cl [#but not am sure]
 b. Léyo *óti* **me** evoíθisen [ma en íme síyuros].
 say.1sg that me.acc.cl helped.3sg [but not am sure]
 'I say that s/he helped me, (#) but I am not sure.' [CG]

The effect is identical with Asturian: the *óti* Comp that allows for enclisis correlates with assertion of the truthfulness of the reported content by the speaker, as opposed to the *óti* Comp that allows for proclisis (where the content is only reported but not asserted). This fact, which has not been previously reported for CG, clearly suggests that the two complementizers differ in semantic terms, and by default (given our current understanding of grammatical models) also in syntactic terms (including features and possibly positioning, or alternatively the portion of structure projected above the {CL, V} cluster). This analysis is supported by independent prosodic evidence: whereas in (40a) *óti* is phrased together with *léyo* ([léyo óti]_{Prosodic Phrase} [evoíθisèn me]_{Prosodic Phrase}), in (40b) it is phrased together with the CL, V cluster ([léyo]_{Prosodic Phrase} [óti me evoíθisen]_{Prosodic Phrase}) (for prosodic phrasing in CG *óti* clauses see Revithiadou 2006). This fact follows for free, if (40a) and (40b) have distinct syntactic structures.

Where does this discussion leave us regarding CG? It seems that preliminary investigation strongly suggests that complementizers for which we have independent evidence that they are merged low in the clause (i.e. below TopP but higher than TP/INFLP) trigger proclisis, while complementizers for which we have evidence that they are merged higher in the clause (i.e. above TopP) trigger enclisis. This gives us the following (revized) empirical generalization:

Generalization 1':

(41) *Merger of a constituent (X or XP) above the {CL, V} cluster up to TopP triggers proclisis. This also includes complementizers merging at some position lower than TopP.*

If a low Comp may be merged either above or below a FocusP/WhP (but lower than TopP – see also Roussou 2000), one gets the following structure (where one

¹⁵ Thanks to Christina Giannapi (University of Edinburgh) for these judgments.

may assume, for expository reasons, that XP = TP/INFLP; C₃ = CForce; C₁ = CFin and TopP = Left Dislocated Topic/LD):

- (42) [_{CP3} C₃ [_{TopP} Top [_{CP2} C₂ [_{FocusP/WhP} Focus/Wh [_{CP1} C₁ [_{NegP} Neg [_{XP} ...{CL, V}...}]]]]]]]]
an dze/óti óti/pos/an/pu KALÁ/pkión óti/ pos/an/(pu)/na men/en¹⁶

In this case, V-merger to a head higher than the cliticization site is blocked (*V), and proclis obtains:

- (43) [_{CP3} C₃ [_{TopP} **Top** [_{CP2} C₂ [_{FocusP/WhP} Focus/wh [_{CP1} C₁ [_{NegP} Neg [_{XP} ...{CL, V}...}]]]]]]]]
*V ✓V

On the other hand, if no head or spec within that area is realized/merged, then (finite) enclisis obtains through merger of V across the cliticization site (✓V):

- (44) [_{CP3} C₃ [_{TopP} **Top** [_{CP2} C₂ [_{FocusP/WhP} Focus/Wh [_{CP1} C₁ [_{NegP} Neg [_{XP} ...{CL, V}...}]]]]]]]]
✓V *V

This give rise to the following abstract generalization:

Generalization 1’:

- (45) *Realization of a spec or a head within a particular area within the high TP - low CP domain blocks realization of the verb within that same domain.*

What is the best way to analyse this distribution? For example, does the complementary distribution pattern involve the spec and head of a *single* syntactic head? Why are only heads within a particular domain subject to this pattern? How can we capture the fact that distinct morpho-syntactic heads are subject to the same pattern? Finally, why should the spell-out position of an XP interact with the realization of the verb (i.e. of a head)? These issues are taken up in the following section.

4. EPP as a PF Edge Requirement

Let us repeat the generalization formulated in section 3.2.2 above. What the data show is that finite enclisis in CG involves activation of the high TP – low CP domain, in the following manner: when a head or phrase is merged and/or spelled-out within this domain, proclisis obtains. Otherwise, we get enclisis. In other words, any *single* feature merged and/or spelled-out within this particular domain is sufficient to trigger proclisis, independently of its precise position

¹⁶ It is not clear to me where *énna* would be in this structure. One possibility that comes to mind is C₁ (the position of *na*), as it is an invariable particle realizing modal inflection. For a discussion of CG *énna*, see Christodoulou & Wiltschko (2012).

within that domain. If we assume that enclisis involves the realization of (a copy of) the verb in some position higher than the cliticization site (see Mavrogiorgos 2010 on cliticization), then it is simpler to assume that the complementary distribution pattern observed with finite enclisis derives from some restriction applied to a single projection. Given that phonological realization is conditioned by the presence of a morpho-syntactic copy, it follows that the restriction must be PF in nature (see also Landau 2007 for a detailed discussion, and also the analysis below), as syntax does not prevent the presence of both copies at the same projection (although it does not force it, either). This is the claim I am going to make in this section. Before I move on to the analysis, let me first present my assumptions.

4.1 Assumptions

I make the following 4 assumptions regarding cliticization and the creation of verbal copies within the clausal extended functional projection:

Assumption 1: clitics

Clitics in CG (and SG) target the periphery of vP (to check case and/or a Topic feature), and the periphery of TP/INFLP (to check deixis and/or person – see e.g. Anagnostopoulou 2003; Mavrogiorgos 2010; Terzi 1999a,b):

(46) [CP C [TP **CL** [TP T' [vP (**CL**) [vP V (**CL**)]]]]]]

Assumption 2: c-selection of functional heads

A functional head locally c-selects (the head of) its complement (potentially via AGREE or FEATURE SHARE, given available feature matrices in Lexicon List 1). This gives rise to one or more morpho-syntactic dependencies/chains (cf. 47 for a standard case; see also Landau 2006, 2007; Pesetsky & Torrego 2001; Zwart 2001), where a chain may be phonologically realized by one or more items (this depends on morphological factors, as the available vocabulary items (see e.g. Embick 2000) or the morphological/affixal properties of the head of the chain and/or its position at a prosodic edge – see Lasnik 1995; Platzack 2010; Richards 2016; Zwart 2001, and section 4.3 below).

(47) [CP ... C ... [TP ... T ... [vP ... V ... [VP ... V...]]]]
 [C-T] [T-v] [v-V] [V]
 has *given*

Assumption 3: head movement

Head *movement* is contingent on AGREE among heads. While nothing precludes the creation of a higher copy via internal merger (in which case we would expect to get interpretative effects – see Lechner 2007, Roberts 2010), I assume that in the default case the actual movement part is delegated by PF (e.g. through an ‘affixal/morphological’ requirement on a c-selecting head – see Landau 2006 on

Hebrew V(P) – fronting). As discussed later on in section 4.3, this assumption is empirically supported by non-finite enclisis.

Assumption 4: content is separate from function and structural position

The final assumption is the most important but at the same time the most controversial one. In particular, the first head H c-selecting TP may come in flavours, in that it hosts some (interpretable) morpho-syntactic feature compatible with this particular domain (e.g. a modal feature, a negation/affirmation feature, or an operator feature):

- (48) a. [..._[HP] **H**_[+f] [_{TP} T [_{vP...V...}]]]]
 b. **H** = {f₁; f₂; ...f_n} and **feature projection** is subject to f₁ > f₂ > ...f_n

Only a single feature at a time may be inserted at H (modulo the c-selection feature, which is not interpretable, as opposed to f). Feature insertion is regulated by a feature insertion algorithm of some sort (see 48b), which, hopefully, could be reduced to independent semantic-syntactic properties. Crucial for our analysis is the fact that not any feature can be inserted in H: topic features (or any other higher feature that does not belong to the core of the clause) cannot appear in H. Despite featural variation, the structural position of H remains constant. The same applies to its function, which is that of marking the edge of a morpho-syntactic domain prosodically and semantico-pragmatically (cf. that H carries interpretable features realized by stress or an overt lexical item, and constitutes the cut-off point for the theme-rheme division). The dissociation of content from function and structural position (see Ritter & Wiltscko 2009) allows us to take into account the variation we have seen, which cannot be accounted for on the basis of a single morpho-syntactic property (e.g. the relevant features do not form a natural class), and at the same time to account for the predictable interaction between H (a prominent structural position) and finite enclisis. Moreover, and as discussed in section 4.3, it opens the way for a principled account of cross-linguistic variation wrt. finite enclisis.

4.2 Analysis

Having presented my assumptions, I wish to make the following theoretical claim, on the basis of the empirical model presented in section 3:

Theoretical Claim

- (49) *H has a (morpho-)syntactic requirement and an Edge Requirement, which are separate though interdependent.*

The (morpho-)syntactic requirement of H reduces to the presence of an unvalued morpho-syntactic feature (inserted in H via 48), which AGREES with a matching XP/X and leads to the creation of a copy at H (with subsequent interpretational and PF realization effects). Since not any feature may be inserted in H, this captures why not any XP or X may participate in the complementary distribution pattern discussed in section 3.2.2.

The Edge Requirement ensures that (the valued feature in) H be realized by (the overt copy of) an X or XP merged at H (see also Collins 2007; Landau 2007; Nchare & Terzi 2014), where H extends TP (see Roberts 2010 for X and XP being able to extend the root):

(50) [..._{[HP Spec [H' H... [TP [T' T [vP [v' V [VP V]]]]]]]]]}

The Edge Requirement is a PF requirement: (a) it marks the edge of TP (via phonological realization), possibly for linguistic (e.g. prosodic) and/or extralinguistic (e.g. processing) factors, and with pragmatico-semantic correlates (cf. the theme-rheme division)¹⁷; (b) it is satisfied *locally* (i.e. by a copy *at* H) and *once* (only the spec or the head of HP may be realized); (c) if HP cannot be realized overtly, PF spells-out the copy of T on H (via c-selection) as a last resort. If the phonological exponent realizing H is affixal, obligatory head movement ensues (no complementary distribution pattern – see next section).¹⁸

Let us now see how the Edge Requirement derives the finite enclisis patterns in CG:

(Preverbal) wh-phrase: proclisis

An unvalued [Wh] feature is inserted in H and AGREES with the wh-phrase. The latter is merged in spec HP (independently required in CG, possibly for PF reasons also – see Richards 2016), and spelled-out at H (Edge Requirement is trivially satisfied, T is spelled-out in situ, hence proclisis obtains):

(51) [..._{[HP tí_{+wh}] [H' H {+wh}] [TP **tu** [TP [T' éðokes T [vP (**tu**) (tí_{+wh})] [vP [v' (éðokes) v [VP (**tu**) (éðokes) V (tí_{+wh})]]]]]]]]]]]}

Na-particle & negation particle: proclisis

An unvalued [modal] or [negation] feature is inserted into H. *Na* (in the case of a modal morpheme) or *en/min* (in the case of a negation morpheme) externally merge at H, checking the relevant feature. Local spell-out satisfies the Edge Requirement, T is spelled-out in situ, hence proclisis obtains):

(52) [..._{[HP [H' na_{+mod}] H {+mod}] [TP **tu** [TP [T' ðókis T [vP (tu) [vP [v' (ðókis) v [VP (tu) (ðókis) V míla]]]]]]]]]]]}

(53) [..._{[HP [H' en_{+neg}] H {+neg}] [TP **tu** [TP [T' éðokes T [vP (**tu**) [vP [v' (éðokes) v [VP (**tu**) (éðokes) V míla]]]]]]]]]]]}

¹⁷ For similar ideas from V2, see Mohr (2009); Zwart 2005.

¹⁸ An anonymous reviewer asks how the analysis proposed here differs from the prosodic account offered by Revithiadou (2006, 2007). Although both analyses assume that PF only has a filtering role, according to Revithiadou, any differences between proclisis and enclisis triggers is related solely to their distinct prosodic properties. That an identical syntax-distinct prosody account does not work is made evident by both optional complementisers (see section 3.2.2) and D-linked wh-phrases (see sections 3.1 and 3.2.1) (in fact, the empirical phenomena used by Revithiadou herself), which have distinct syntactico-semantic properties that naturally map onto distinct prosodic structures.

¹⁹ In the case of *min*, which is obligatorily selected by *na*, the simplest hypothesis would be to assume that it is generated in a separate modal head c-selecting H_[neg]. Thanks to the editor for this pointing out this issue.

Focusing on Medieval Greek, it has both preverbal and postverbal clitics with (true) imperatives, depending on the properties of the constituent preceding the clitic cluster (which is what we also find in CG finite enclisis). This is illustrated in (62) below, where *ayía*, presumably a preverbal stressed/emphasized adjectival predicate, triggers proclisis (62a), as opposed to *próton*, a preverbal adverbial topic, which triggers enclisis (62b):

- (62) a. *Ayía tin ipé!*
 Holy her.cl.acc call.2sg.imp
 'Call her holy!' (example taken from Pappas 2004: 70 (his (57)))
 b. *Próton ipé mas mana!*
 First tell.2sg.imp us.dat.cl mother.voc
 'First, tell us mother...' (example taken from Pappas 2004: 81 (his (16)))

A straightforward way to account for this distribution is to assume that imperative verb forms are licensed in T and end up in H in case nothing else has merged there, on a par with finite morphology (see also Condoravdi & Kiparsky 2004; for other languages see Bošković 2004; Medeiros 2015; Pancheva 2005; Rivero and Terzi 1995). Were this to be the case, we would expect (true) MG imperatives to behave like non-imperative forms in various respects. This prediction appears to be borne out, as illustrated by the following example of a (true) negated imperative (see Laka 1990; Han 1998; Zanuttini 1997 for negated imperatives):

- (63) *To thélimà mu plíroson*
 The wish.acc mine.cl.gen fulfil.2sg.imp
ke apiθís mi yínu!
 and disobedient neg become.2sg.imp
 'Fulfil my wish and do not become disobedient!'
 (from Condoravdi & Kiparsky (2004: 170 (their (10))))

According to this analysis, CG and SG differ from MG in that in the former imperative morphology is inserted and spelled-out in H (along with T, as it is affixal), while in the latter it is inserted and spelled-out in T (unless T is spelled-out in H as a Last Resort, due to the Edge Requirement):

- (64) a. [_{HP} H_[neg; foc; ∅] [_{TP} T_[+imp]]] (Medieval Greek imperatives)
 b. [_{HP} H_[+imp] [_{TP} T]] (CG & SG imperatives)

In other words, the position of clitics can be parameterized wrt. the structural position a certain (functional) feature may be inserted at (in this respect, cf. infinitives in some Italian dialects which are reported by Manzini & Savoia 2005 to pattern like MG imperatives), in fact even within the same language (in this respect cf. MG gerunds, which according to Pappas 2004 trigger obligatory enclisis, on a par with CG and SG).²⁰

²⁰ In this respect, CG seems to have moved closer to SG, although it is far from clear whether it is likely to also lose finite enclisis in the future (cf. e.g. Bulgarian, which according to Pancheva 2005 has changed from a SG-like system to a CG-like system). If the Edge Requirement is imposed on H, then any changes in H

Two additional loci of parameterization would include: (a) the (non-)affixal status of imperative/non-finite morphology; (b) the locus of the Edge Requirement. Regarding (a), I am not aware of any Tobler-Mussafia language having a true imperative or non-finite particle/non-affixal head that blocks enclisis (although suppletive heads such as subjunctive or deontic modality negation particles do have this function (see Isac & Jakab 2004), in which case we would expect them to show root properties). Regarding (b), if H = T in morpho-syntactic and/or prosodic terms, we would get a language that lacks finite enclisis (e.g. SG and all main Romance languages). In this case, T would be predicted to have H properties, either morpho-syntactically and/or prosodically. Although there seems to be evidence that T may have morpho-syntactic and prosodic properties allocated to H in Tobler-Mussafia languages (see e.g. Alexiadou & Anagnostopoulou 1998 on A'-subjects; Richards 2016 on T being the edge of a prosodic domain in null subject languages), additional research is required to understand what the matching of morpho-syntax and prosody is, and how it fits into the present theory. This is beyond the purposes of the current paper, so I will leave it open for further research (Mavrogiorgos in progress).

Summing up, in this section I argued that H seems to have an additional morphological/affixal requirement, as manifested by non-finite enclisis in CG, SG and MG. I also offered some speculative remarks on possible loci of parameterization for H, which could account for the lack of finite enclisis in languages like SG.

5. Conclusion

The main claim of this paper was that CG and SG enclisis are amenable to a decompositional analysis of the EPP. In particular, H, the first head c-selecting TP (presumably the locus of theme-rheme division), contains an unvalued morpho-syntactic feature that AGREES with a matching X or XP item. H also has a contingent PF requirement imposed on it (the Edge Requirement), according to which H must be spelled-out locally and only once by a non-affixal item. This derives the complementary distribution pattern attested in CG finite enclisis and MG imperative enclisis, as well as the lack thereof in CG and SG non-finite enclisis. The novelty of this approach is that in order to account for finite enclisis it postulates a PF part for the EPP (see also Revithiadou 2006, 2007 and ft. 20 for CG; for Western Iberian see Raposo & Uriagereka 2005) that applies to a very specific structural position (H), contrary to the majority of the available literature, which assumes that the EPP is purely morpho-syntactic in nature, potentially applying to any feature within any functional head (see e.g. Rivero & Terzi 1995, Terzi 1999a,b for CG; Benincá 2006; Poletto 2014 for Old Italian and Medieval Romance; Fernández-Rubiera 2013 for Asturian; Roberts 2012 for Tobler-Mussafia languages and Slavic languages). One advantage of the current approach is that it derives all the attested patterns on the basis of a well-grounded hypothesis (see Landau 2007; see also Mavrogiorgos in progress for additional evidence in favour of a local PF EPP). A second advantage is that the hypothesis that the EPP applies to H is simpler and more easily falsifiable, compared to an approach that postulates that the EPP is a feature potentially

(including its featural content) is expected to play a role in the transition. This is an issue for further research. Thanks to an anonymous reviewer for pointing out this issue to me.

applying to any functional head/feature. From an empirical point of view, an equally important contribution is that it sets apart proclisis triggers from enclisis triggers *in terms of their hierarchical position in the clausal structure*. This approach is novel, and has led to the empirical generalization in section 3.2.2 and to the formulation of an explicit theoretical hypothesis about the EPP vis-à-vis clausal architecture. Moreover, it has direct implications for the status of non-stressed preverbal subjects in CG as topics (which could be informative also for SG, which lacks finite enclisis), as they behave like preverbal object topics wrt. enclisis (which, in turn, predicts that they should have additional topic properties, such as referentiality and wide scope, and that subjects lacking these properties would trigger proclisis).²¹ Various questions arise at this point: how is CG enclisis related to second position cliticization or to V2 phenomena, which also involve a C-T interaction vis-à-vis the EPP?; are there other domains with the same EPP requirement, and if yes, what are these and what are their properties?²² Although these issues are relevant to the proposed analysis, they cannot be addressed appropriately within the limits of the current paper.

REFERENCES

- Agouraki, Y., 1997. On the enclisis/proclisis alternation. In: Drachman, G., Malikouti-Drachman, A., Fykias, J., Klidi, C. (Eds.), *Proceedings of the Second International Conference on Greek Linguistics*, vol. II. University of Salzburg, Salzburg, pp. 393-404.
- Agouraki, Y., 2001. The position of clitics in Cypriot Greek. In: Ralli, A., Joseph, B., Janse, M. (Eds.), *Proceedings of the First International Conference on Modern Greek Dialects and Linguistic Theory*. University of Patras, Patras, pp. 1-18.
- Agouraki, Y., 2010. *It*-clefts and stressed operators in the preverbal field of Cypriot Greek. *Lingua* 120, 527-554.
- Alexiadou, A., 2006. Left Dislocation (including CLLD). In: Everaert, M., van Riemsdijk, H., Goedemans, R., B, Hollebrandse (Eds.), *The Blackwell Companion to Syntax*. Blackwell, Oxford.
- Alexiadou, A., Anagnostopoulou, E. 1997. Toward a uniform account of scrambling and clitic doubling. In: Abraham, W., van Gelderen, E. (Eds.), *German: Syntactic Problems – Problematic Syntax*. Max Niemeyer, Tübingen, 142-161.
- Alexiadou, A., Anagnostopoulou, E., 1998. Parametrizing Agr: Word order, V-movement and EPP-checking. *Natural Language and Linguistic Theory* 16, 491-539.
- Anagnostopoulou, E., 1997. Clitic Left Dislocation and Contrastive Left Dislocation. In: Anagnostopoulou, E., van Riemsdijk, H., Zwarts, F. (Eds.), *Materials on Left Dislocation*. John Benjamins, Amsterdam, 151-192.
- Anagnostopoulou, E., 2003. *The Syntax of Ditransitives. Evidence from Clitics*. Mouton de Gruyter, Berlin.
- Benincà, P., 2006. A detailed map of the left periphery of Medieval Romance. In: Raffaella Zanuttini, Héctor Campos, Elena Herburger, and Paul Portner (eds.), *Crosslinguistic Research in Syntax and Semantics. Negation, Tense, and Clausal Architecture*. Georgetown University Press, Washington, DC, pp. 53-86.
- Bianchi, V., 2003. On finiteness as logophoric anchoring. In: Gueron, J. & Tasmovski, L. (Eds.), *Temps et Point de Vue/Tense and Point of View*. Université Paris X Nanterre, Paris, pp. 213-246.
- Bošković, Z., 2001. *On the Nature of the Syntax-Phonology Interface: Cliticization and Related Phenomena*. Elsevier, Amsterdam.
- Bošković, Z., 2004. On the clitic switch in Greek imperatives. In: Tomić, O. M. (Ed.), *Balkan Syntax and Semantics*. John Benjamins, Amsterdam, pp. 269-291.
- Chatzikyriakidis, S., 2010. *Clitics in 4 Dialects of Modern Greek: A Dynamic Account*. PhD thesis, King's College, London.
- Chatzikyriakidis, S., 2012. A Dynamic Account of the Cypriot Greek Clitic Positioning system. *Lingua* 122, 642-672.
- Chomsky, N., 1981. *Lectures on Government and Binding*. Foris, Dordrecht.

²¹ I would like to thank an anonymous reviewer for making this point clear to me.

²² I would like to thank an anonymous reviewer for pointing out this issue to me.

- Chomsky, N., 2000. Minimalist inquiries: The framework. In: Martin, R., Michaels, D. & Uriagereka, J. (Eds.), *Step by Step: Essays on Minimalist Syntax in Honor of Howard Lasnik*. The MIT Press, Cambridge, MA, pp. 89-155.
- Chomsky, N., 2001. Derivation by phase. In: Kenstowicz, M. (Ed.), *Ken Hale: A Life in Language*. The MIT Press, Cambridge, MA, pp. 1-52.
- Chomsky, N., Lasnik, H. 1977. Filters and Control. *Linguistic Inquiry* 8, 425-504.
- Christodoulou, C., Wiltschko, M. 2012. Function without content: Evidence from Greek subjunctive *na*. In: Di Sciullo, A.M. (Ed), *Towards a Biolinguistic Understanding of Grammar: Essays on Interfaces*. John Benjamins, Amsterdam, pp. 117-140.
- Collins, C., 2007. 'Home Sweet Home.' *NYU Working Papers in Linguistics* 1, 1-34.
- Condoravdi, C., Kiparsky, P., 2001. Clitics and clause structure. *Journal of Greek Linguistics* 2, 1-40.
- Condoravdi, C., Kiparsky, P., 2004. Clitics and Clause structure. The Late Medieval Greek system. *Journal of Greek Linguistics* 5, 159-183.
- Embick, David. 2000. Features, Syntax, and Categories in the Latin Perfect. *LI* 3, 185-230.
- Emonds, J. 2004. Unspecified categories as the key to root constructions. In: Adger, D., de Cat, C. & G. Tsoulas (Eds.), *Peripheries: Syntactic Edges and their Effects*. Springer, Netherlands, pp. 75-120.
- Fernández-Rubiera, F. J., 2013. Root and embedded contexts in Western Iberian. In: Meklenborg Salvesen, C., Helland H. P. (Eds.), *Challenging Clitics*. John Benjamins, Amsterdam, pp. 55-86.
- Franks, S., 2015. Clitics are/become Minimal(ist). Ms, Indiana University Bloomington.
- Grohmann, K. K., Drury, J., Castillo, J. C., 2000. No more EPP. In: Billerey & Lillehaugen (Eds.), *WCCFL 19 Proceedings*. Cascadilla Press, Somerville, MA, pp. 153-166.
- Han, C. 1998. *The Structure and Interpretation of Imperatives: Mood and Force in Universal Grammar*. PhD thesis, University of Pennsylvania.
- Halpern, A., 1995. *On the Placement and Morphology of Clitics*. Stanford CA: CSLI.
- Holmberg, A., 2000. Scandinavian Stylistic Fronting. How Any Category Can Become An Expletive. *Linguistic Inquiry* 31, 445-483.
- Iatridou, S., 1991. *Clitics and Island Effects*. Ms., MIT.
- Iatridou, S., Kroch, A., 1992. The licensing of CP-recursion and its relevance to the Germanic verb-second phenomenon. *Working Papers in Scandinavian Linguistics* 50, 1-25.
- Isac, D., Jakab, E., 2004. Mood and Force Features in the Languages of the Balkans. In: Tomić, O.M. (Ed.), *Balkan Syntax and Semantics*. Benjamins, Amsterdam, pp. 315-339.
- Klavans, J., 1985. The Independence of Syntax and Phonology in Cliticization. *Language* 61, 95-120.
- Koopman, H., 2000. *The Syntax of Specifiers and Heads*. Routledge, London.
- Kupula, M., 2011. A phase-extension approach to double object constructions: Evidence from Modern Greek. *Studia Linguistica* 65, 147-169.
- Labelle, M., Hirschbühler, P., 2005. Changes in Clausal Structure and the Position of Clitics in Old French." In: Batllori, M., Hernanz, M.L., Picallo, C., Roca, F. (Eds.), *Grammaticalization and Parametric Variation*. OUP, Oxford, pp. 149-178.
- Laka, I., 1990. *Negation in Syntax: On the Nature of Functional Categories and Projections*. PhD thesis, MIT.
- Landau, I., 2006. Chain resolution in Hebrew V(P)-fronting. *Syntax* 9, 32-66.
- Landau, I., 2007. EPP extensions. *Linguistic Inquiry* 38, 485-523.
- Lasnik, H., 1995. Verbal morphology: *Syntactic Structures* meets the Minimalist Program. In: Campos, H., Kempchinsky, P. (Eds.), *Evolution and revolution in linguistic theory: Essays in honor of Carlos Otero*. Georgetown University Press, Washington D.C., pp. 251-275.
- Lasnik, H., 2003. On the Extended Projection Principle. *Studies in Modern Grammar* 31, 1-23.
- Lechner, Winnie. 2007. Interpretative effects of head movement. Ms., University of Athens. lingbuzz/000178.
- Manzini, R., Savoia, L. M., 2002. Parameters of Subject Inflection in Italian Dialects. In: Svenonius, P. (Ed.), *Subjects, Expletives, and the EPP*. OUP, New York, pp. 157-199.
- Manzini, Rita, Leonardo Savoia. 2005. *I dialetti italiani e romanci. Morfosintassi generativa*. 3 vols. Alessandria: Edizioni dell'Orso.
- Mavrogiorgos, Marios, 2010. *Clitics in Greek: A Minimalist Account of Proclisis and Enclisis*. Amsterdam: John Benjamins.
- Mavrogiorgos, Marios. 2013. Enclisis at the Syntax-PF Interface. *Challenging Clitics*, Christine Meklenborg-Salvesen, Hans Peter Helland, pp. Amsterdam: John Benjamins.
- Mavrogiorgos, Marios. in progress. Clitic positioning and the interfaces. Ms. University of Cambridge.
- Medeiros, D., 2015. Embedded Ancient Greek Imperatives: A Feature Transfer Analysis. *Syntax* 18, 124-

- Meinunger, A., 2006. Interface restrictions on verb second. *The Linguistic Review* 23, 127-160.
- Mohr, S., 2009. V2 as a Single-Edge phenomenon. In: Grohmann, K.K., Panagiotidis, P. (Eds.), *Selected Papers from the 2006 Cyprus Syntaxfest*. Cambridge Scholars Publishing, Newcastle, pp. 141-158.
- Nchare, A. L., Terzi, A., 2014. Licensing silent structure: the spatial prepositions of Shupamem. *Natural Language and Linguistic Theory* 32, 673-710.
- Pancheva, R., 2005. The Rise and Fall of Second Position Clitics. *Natural Language and Linguistic Theory* 23, 103-167.
- Pappas, P., 2004. *Variation and Morphosyntactic Change in Greek. From Clitics to Affixes*. Palgrave Macmillan, New York.
- Pearson, M., 2005. The Malagasy Subject/Topic as an A'-Element. *Natural Language and Linguistic Theory* 23, 381-457.
- Pesetsky, D., 1998. Some Optimality Principles of Sentence Pronunciation. In: Pilar, B. et al. (Eds.), *Is the Best Good Enough*. MIT Press, Cambridge, MA, pp. 337-383.
- Pesetsky D., Torrego, E., 2001. T-to-C movement: Causes and consequences. In: Kenstowicz, M. (Ed.), *Ken Hale. A Life in Language*. The MIT Press, Cambridge, MA, pp. 355-426.
- Philippaki-Warbuton, I., 1992. On mood and complementizers in Modern Greek. *Reading University Working Papers in Linguistics* 1, 5-41.
- Philippaki-Warbuton, I., 1995. Metakinisi rimatos ke i katanomi ton klitikon antonimion. *Studies in Greek Linguistics* 15, 892-905.
- Philippaki-Warbuton, I., 1998. Functional categories and Modern Greek syntax. *The Linguistic Review* 15, 159-186.
- Platzack, C., 2010. *Head Movement as a Phonological Operation*. Ms., Lund University.
- Poletto, C., 2014. *Word Order in Old Italian*. Oxford University Press, Oxford.
- Raposo, E., Uriagereka, J., 2005. Clitic placement in Western Iberian. In: Cinque, G., Kayne, R. (Eds.), *The Oxford handbook in comparative syntax*. Oxford University Press, Oxford, pp. 639-697.
- Revithiadou, A., 2006. Prosodic filters on syntax: an interface account of second position clitics. *Lingua* 116, 79-111.
- Revithiadou, A., 2007. A cross-dialectal study of cliticisation in Greek. *Lingua* 118, 1393-1415.
- Richards, N., 2010. *Uttering Trees*. The MIT Press, Cambridge, MA.
- Richards, N., 2016. *Contiguity Theory*. The MIT Press, Cambridge, MA.
- Ritter, E., Wiltschko, M., 2009. Varieties of INFL: TENSE, LOCATION and PERSON. In: Jeroen van Craenenbroeck (Ed.), *Alternatives to cartography*. Mouton de Gruyter, Berlin, pp. 153-201.
- Rivero, M-L., 1994. Clause structure and V-movement in the languages of the Balkans. *Natural Language and Linguistic Theory* 12, 63-120.
- Rivero, M-L., Terzi, A., 1995. Imperatives, V-movement and logical mood. *Journal of Linguistics* 31, 301-322.
- Rizzi, L., 1996. Residual Verb Second and the Wh-criterion. In: Belletti, A., Rizzi, L. (Eds.), *Parameters and Functional Heads*. OUP, Oxford, pp. 63-90.
- Rizzi, L., 1997. The fine structure of the left periphery. In: L. Haegeman (Ed.), *Elements of Grammar: A Handbook in Generative Syntax*. Kluwer, Dordrecht, pp. 281-337.
- Roberts, I., 2010. *Agreement and Head Movement*. MIT Press, Cambridge, MA.
- Roberts, I., 2012. Phases, head movement and second-position effects. In: Gallego, A. (Ed.), *Phases. Developing the Framework*. Mouton de Gruyter, Berlin, pp. 385-440.
- Roberts, I., Roussou, A., 2002. The extended projection principle as a condition on the tense-dependency. In: Svenonius, P. (Ed.), *Subjects, Expletives, and the EPP*. OUP, New York, pp. 125-156.
- Roussou, A., 2000. On the left periphery: modal particles and complementisers. *Journal of Greek Linguistics* 1, 65-94.
- Schütze, C., 2004. Serbo-Croatian second position clitic placement and the phonology- syntax interface. In: *MIT Working Papers in Linguistics* 21. MITWPL, Department of Linguistics and Philosophy, MIT, Cambridge, MA, pp. 373-473.
- Selkirk, E., 2011. The Syntax-Phonology Interface. In: Goldsmith, J., Riggle, J., Yu, A.C.L. (Eds.), *The Handbook of Phonological Theory, Second Edition*. Blackwell, Oxford, pp. 435-484.
- Sigurdsson, H-A., 2010. On EPP effects. *Studia Linguistica* 64, 159-189.
- Speas, M., 1995. *Economy, Agreement, and the Representation of Null Arguments*. Ms. UMass.
- Sportiche, D., 1992/1998. *Clitic constructions*. Ms. Published in: *Partitions and Atoms of Clause Structure: Subjects, Agreement, Case and Clitics*. Routledge, London.

- Terzi, A., 1999a. Clitic combinations, their hosts and their ordering. *Natural Language and Linguistic Theory* 17, 85- 121.
- Terzi, A., 1999b. Cypriot Greek clitics and their positioning restrictions. In: Alexiadou, A., Horrocks, G., Stavrou, M. (Eds.), *Studies in Greek Syntax*. Kluwer, Dordrecht, pp. 227-240.
- Truckenbrodt, H., 2006. On the semantic motivation of syntactic verb movement to C in German. *Theoretical Linguistics* 32-3, 257-306.
- Zanuttini, R., 1997. *Negation and Clausal Structure: A Comparative Study of Romance Languages*. OUP, Oxford.
- Zwart, J -W., 2001. Syntactic and Phonological Verb Movement. *Syntax* 4, 34-62.
- Zwart, J -W., 2005. Verb second as a function of merge. In: den Dikken, M., Tortora, C. (Eds.), *The Function of Function Words and Functional Categories*. John Benjamins, Amsterdam, pp. 11-40.