External Arguments in Basque

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Williams (1981) proposes that there is a designated argument within the thematic structure of the verb which must be realized external to the VP, in the specifier of a functional phrase (IP).\(^1\) In contrast, Kuroda (1986) and Koopman & Sportiche (1988) among others propose that all the arguments of the verb are realized internal to the VP.\(^2\) We argue that in Basque, all the arguments of the verb are external arguments in the sense of Williams (1981). That is, we propose a third alternative, namely, that all the arguments of the verb are projected external to the VP in the specifier positions of functional phrases and indirectly theta-marked by a functional head.

We first discuss the basic properties of a Basque sentence. In section 2, we show that all the arguments in Basque, in particular the absolutive argument, must be external to the VP at S-structure. To this effect, we will discuss Agreement and pro-drop, the morphological structure of the Auxiliary, control and Case and finally wh-movement. We then argue that it is precisely this hypothesis, namely, that all the arguments of the verb must be in specifiers outside the VP at S-structure, which is incompatible with the VP-internal hypothesis. This leads us to propose that all arguments of the verb are external arguments in the sense of Williams (1981). We then propose an account of wh-movement and free word order in Basque. We conclude with a discussion of the similarities between the VP-internal and the VP-external hypothesis.

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1 We would like to thank participants in the Basque seminar and workshop, in particular, Ken Hale and Itziar Laka for helpful discussions and suggestions. In addition, we have benefited a lot from discussions with Noam Chomsky, Howard Lasnik, Alec Marantz, Jon Ortiz de Urbina, Bernard Oyharçabal, David Pesetsky and Dominique Sportiche.

2 There are various versions of the VP-internal subject hypothesis (Hale 1980, Kitagawa 1986, Speas 1986 and Zagona 1982). Our arguments against the VP-internal hypothesis for Basque hold regardless of the particular instantiations of this hypothesis.
1. Basic properties of a Basque Sentence

1.1 Case

Basque has morphological ergative Case-marking. That is, subjects of transitive verbs are assigned ergative Case while objects of transitive verbs are assigned absolutive Case, as shown in (1).

(1) Ni-k liburu-a-∅ irakurri dut
I-ERG book-the-ABS read 3s-AUX-1s
"I read the book"

The single argument of an unaccusative verb is assigned absolutive Case, as shown in (2), whereas the single argument of an unergative verb is assigned ergative Case, as in (3).

(2) Ni etorri naiz
I-ABS arrive 1s-AUX
"I arrived"

(3) Maria-k hitz egin du
Maria-ERG word-make 3s-AUX-3s
"Maria has spoken"

1.2 Agreement and Pro drop.

Verbal forms in Basque inflect for ergative, absolutive and dative agreement. Thus in (4), the Auxiliary agrees with all three arguments of the verb:

(4) ni-k Jon-i liburu-a-∅ ema-n
"I can give the book to John"

This three-way agreement licenses a three-way pro-drop, as shown in (5):

(5) pro₁ pro₂ pro₃ ema-n d IEZA-Io-ke-t-∅
give-ASP 3sABS-AUX-3sDAT-MOD₁ERG-TNS
"I can give it to him/her"

1.3 Free word order

Finally, Basque has free word order. The ordering of the arguments shown in (1) through (4) is the unmarked one (de Rijk 1969); it is summarized in (6).

(6) ERGATIVE-DATIVE-ABSOLUTIVE

Besides the unmarked ordering, the arguments can appear in any order. Some of the marked orderings are shown in (7).

(7) a. nik liburua Joni eman diezaioket
liburua Joni nik eman diezaioket
c. Joni nik liburua eman diezaioket
d. Joni eman diezaioket liburua nik

2. S-Structure

2.1 Agreement and pro-drop

Following Pollock (1989), we assume that Agreement and Tense head distinct phrasal projections. In addition, following Chomsky (1986) and Koopman & Sportiche (1988), we assume that Agreement is a Spec-head relation. Specifically, Agreement is the relation between the head AGR and an NP in its specifier. Given these basic assumptions and the fact that Basque has three-way agreement, all arguments of the verb must be in the specifier of an agreement phrase at S-structure.

We propose that a Basque sentence has the S-structure representation given in (8), where every argument of the verb is sitting in the specifier of an AgrP. In addition to deriving agreement, the structure further allows us to correlate the three-way pro-drop in Basque with the pro-drop found in null-subject languages. Pro-drop is the licensing of a pro identified by a ‘rich’ AGR. In (8), every argument of the verb is in the specifier of a ‘rich’ agreement at S-structure. This relation licenses a three-way pro-drop.

It should be noted that there are some restrictions on word order. For instance, no constituent can intervene between the verb and the Auxiliary in non-negative sentences. See Laka (1988b) for details.
2.2. The morphological structure of the Auxiliary.

The structure in (8) is an extension of the structure proposed in Laka (1988) in order to account for the morphological structure of the Auxiliary. In (9), we show the canonical structure of the Auxiliary. We see that the order of the agreement morphemes in the Auxiliary is the mirror image of the unmarked order of arguments, which was given in (6). Laka proposed that i) the AUX, the Modal and the Tense morphemes are X°'s projecting to XP's and ii) the Auxiliary has the following hierarchical structure: Tense dominates Modal which in turn dominates AUX. She then derives the structure in (9) via head adjunction in the mapping between D-structure and S-structure.

(9) absolutive-auxiliary-dative-modal-ergative-tense

To derive the complex inflectional head in (9), we assume that the absolute agreement head in (8) first left adjoins to AUX yielding prefixation of the absolute agreement marker; this complex head then successively left-adjoins to the functional heads dominating it, yielding suffixation of all the other markers.

Hence, we must assume that the Ergative, Dative and Absolutive arguments are in the Specifier of an AgrP at S-structure to trigger the agreement the AUX picks up on its way up to Tense and, thus, derive the correct ordering of morphemes within the Auxiliary.

2.3 Control and Case

It has been argued in the literature that although Basque is morphologically ergative, it is syntactically accusative: the absolutive argument of an unaccusative verb behaves like the ergative, the external, argument of a transitive verb with respect to control, as shown by Levin (1983) and Ortiz de Urbina (1986).

Levin proposed that Case-assignment in Basque is determined by D-structure relations: D-structure objects get absolutive Case and D-structure subjects get ergative Case. Hence, the internal argument of the verb is governed and assigned absolutive Case by the verb whereas its D-structure subject, in Spec of IP, is assigned ergative Case. Further, Levin assumes that unaccusative verbs in Basque differ from unaccusatives in other languages in that they are able to assign Case to their object. Thus, the sole argument of the unaccusative verb in (2), its D-structure object, is assigned absolutive Case by the verb; whereas the sole argument of the unergative verb in (3), its D-structure subject, is assigned ergative Case.

The assumption that absolutive Case is assigned by the verb at D-structure and that objects of unaccusatives do not move to Spec of IP for Case reasons is problematic with respect to control. Obligatory Control phenomena exist in Basque. As in other languages, only the subject position is controlled. Consider the following data, taken from Oyharcabal (1990).

(10) a. Ez dakit zer-ø egin
ez I-know what-abs do
"I don't know what to do"

The analysis that Levin gives entails that Burzio's (1981) generalization does not hold for Basque.
b. *Ez dakit zer-φ gerta  
eg I-know what-abs happen  
“I don’t know what to happen”

c. *Ez dakit nor-k egin  
eg I-know who-erg do  
“I don’t know who to do”

As shown in (10), an overt absolutive argument is licensed in an embedded control structure only when it is an object, as in (10a). In (10b), the absolutive argument behaves like a subject and hence must be controlled; it cannot be overtly realized on a par with the ergative subject in (10c). Obligatory control in Basque is blind to morphological Case-marking: only the subject/object distinction is relevant to determining what must and what cannot be controlled.

Thus, the controlled argument of an unaccusative verb must be in a subject position. This forces Levin (1983) to assume that although lexical NP’s do not move out of their D-structure position, PRO must. She assumes that PRO moves to a subject position because it cannot remain in its D-structure position since PRO is restricted to non-Case marked positions. This, however, yields a violation of the chain condition since the terminal element of the resulting chain (PROj, lij) is in a Case-position.

What control shows us is that if absolutive Case is assigned VP internally, we lose the motivation for raising the object out of the VP. Therefore, we assume that Case is assigned uniformly outside the VP by the Agreement heads in (8) to the NP’s in their specifiers. Thus, in (8), the lowest AGR° assigns Absolutive Case whereas the highest AGR° assigns Ergative Case. This, moreover, unifies Case assignment and Agreement as a Spec-head relation.

2.4 Wh-movement.

Finally, data from wh-movement further show us that the absolutive NP must not be in a complement position. The basic generalization with respect to wh-movement in Basque is that no lexical NP can intervene between the wh-word and the verb, as shown in (11). However, consider the contrast in (12). (12) shows that when the surface adjacency requirement between the wh-word and the verb is not satisfied, extraction of an object is worse than extraction of a subject.

(11)  a. Zeri proj ti edango du  \[\text{what-ABS drink it-AUX-he} \]  
“What will he drink?”

b. Norki ti proj edango du  \[\text{whOj-ERG drink it-AUX-he} \]  
“Who will drink it?”

(12)  a. *Zeri Jon ek ti edango du  \[\text{whatj-ABS John-ERG drink it-AUX-he} \]  
“Who will drink it?”

b. ?* Norki ti ardo-a-φ edango du  \[\text{whOj-ERG wine-the-ABS drink it-AUX-he} \]  
“Who will drink wine?”

(11) and (12) are adapted from Uriagereka (1987). In (12a), we see that when we extract an object over a lexical subject, the result is very bad. In contrast, when we extract a subject with a lexical object present as in (12b), the result is only marginal. What (12a) shows is that there is no privileged relationship between the object and the verb. In other words, objects in Basque are not lexically governed. In particular, verbs do not lexically govern their objects. What is lexical government if not Case and/or θ-assignment by a lexical head to its sister? (12a), thus, adduces evidence for our claim that objects in Basque are outside of the VP and not complements of the verb. We will derive the contrasts in (12) on the one hand and in (11)/(12) on the other in section 5.

3. The VP internal hypothesis

We have shown that all arguments in Basque must be outside of the VP at S-structure. The question arises now as to whether they are all inside the VP at D-structure, as the VP-internal hypothesis entails. Let us suppose that all arguments of the verb are assigned a θ-role uniformly within the VP and then raise to the specifier of a functional category at S-structure, in order to receive Case and to trigger Agreement, as in (13):

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6 Ortiz de Urbina (1986) first proposed that AGREement in Basque could assign absolutive Case to the sole argument of an unaccusative verb. However, to ensure that the object of a transitive verb also gets absolutive Case, he has to allow both the verb and AGR in INFL to assign the same Case.

7 An analysis of the contrasts shown in (11) and (12) is proposed in Laka & Uriagereka (1986) and Uriagereka (1987).
It should be noted again that the order of agreement markers is the mirror image of the unmarked order of arguments (compare (6) with (9)). Because of this mirror image relation, any theory which base-generates the arguments VP-externally and then raises them to get Case and trigger Agreement outside VP will encounter the following problems. First, how do we ensure that the NP's end up in precisely the SPEC positions where they get the right Case and trigger the right agreement? A possible solution is to stipulate that the lower agreement phrase is restricted to Absolutive/patient arguments whereas the highest agreement phrase is restricted to Ergative/agent arguments. In other words, we must duplicate outside the VP the thematic Information given within the VP. If we have to stipulate that the arguments move out of the VP in such a way as to respect the thematic hierarchy, then we void the VP-internal hypothesis of its original motivation.

Further, NP-movement of all the arguments leads to Crossing Paths. Pesetsky (1982) has argued that crossing paths are only relevant to A'-movement. However, with the proliferation of functional categories and the VP-internal hypothesis, we have a proliferation of A-positions (i.e. positions in which Case or a θ-role are assigned). Hence, the question of whether crossing is relevant for A-positions only arises now.

Finally, NP-movement in (13) entails ECP violations: the relations between the traces in (13) and their antecedents are not local. The intervening traces/NPs will act as specified subjects. In other words, they induce minimality violations.

4. The VP external hypothesis

We propose that a Basque sentence has the D-structure in (14):

(14) D-str. TP
         / \              T'
         NP AGR
         / \           / \  
         erg M
         / \          / \  
         MP AGR
         / \          / \  
         M'
         / \          / \  
         AGRP M
         / \          / \  
         NP AGR
         / \          / \  
         dat AGR
         / \          / \  
         AUXP AGR
         / \          / \  
         AUX'
         / \          / \  
         AGRP AUX
         / \          / \  
         NP AGR
         / \          / \  
         Abs AGR
         / \          / \  
         VP AGR
         / \          / \  
         V ASP

All the arguments in Basque are external to the verb in the sense of Williams (1981). Specifically, we propose that:

(i) All arguments are based-generated in the specifiers of functional categories; namely AgrPs. These functional categories are extended projections of the verb (L-related projections, in the sense of Chomsky 1989, class lectures).

(ii) Moreover, we propose that the arguments of the verb are projected according to the thematic hierarchy, agent-dative-theme, as proposed for Japanese and German for instance (see Hoji 1985 and Webelhuth 1989).
As shown in (10), an overt absolutive argument is licensed in an embedded control structure only when it is an object, as in (10a). In (10b), the absolutive argument behaves like a subject and hence must be controlled; it cannot be overtly realized on a par with the ergative subject in (10c). Obligatory control in Basque is blind to morphological Case-marking: only the subject/object distinction is relevant to determining what must and what cannot be controlled.

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\begin{itemize}
  \item \textbf{(11)}
    \begin{enumerate}
      \item \textbf{a.} Zeri proj t i edango du
      \item \textbf{b.} Norki t i proj edango du
    \end{enumerate}
  \item \textbf{(12)}
    \begin{enumerate}
      \item \textbf{a.} *Zeri Jon-ek t i edango du
      \item \textbf{b.} ?* Norki ti ardo-a-φ edango du
    \end{enumerate}
\end{itemize}

(11) and (12) are adapted from Uriagereka (1987). In (12a), we see that when we extract an object over a lexical subject, the result is very bad. In contrast, when we extract a subject with a lexical object present as in (12b), the result is only marginal. What (12a) shows is that there is no privileged relationship between the object and the verb. In other words, objects in Basque are not lexically governed. In particular, verbs do not lexically govern their objects. What is lexical government if not Case and/or θ-assignment by a lexical head to its sister? (12a), thus, adduces evidence for our claim that objects in Basque are outside of the VP and not complements of the verb. We will derive the contrasts in (12) on the one hand and in (11)-(12) on the other in section 5.

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\[
\begin{array}{c}
TP \\
/ \backslash \\
NP T' \\
/ \backslash \\
erg MP T \\
/ \backslash \\
NP M' \\
dat MP M \\
/ \backslash \\
AUXP M \\
/ \backslash \\
NP AUX' \\
abs MP AUX \\
/ \backslash \\
VP AUX \\
/ \backslash \\
NP V' \\
/ \backslash \\
VP V \\
/ \backslash \\
NP V' \\
/ \backslash \\
NP V \\
\end{array}
\]

It should be noted again that the order of agreement markers is the mirror image of the unmarked order of arguments (compare (6) with (9)). Because of this mirror image relation, any theory which base-generates the arguments VP-internally and then raises them to get Case and trigger Agreement outside VP will encounter the following problems. First, how do we ensure that the NP's end up in precisely the SPEC positions where they get the right Case and trigger the right agreement? A possible solution is to stipulate that the lower agreement phrase is restricted to Absolutive/patient arguments whereas the highest agreement phrase is restricted to Ergative/agent arguments. In other words, we must duplicate outside the VP the thematic information given within the VP. If we have to stipulate that the arguments move out of the VP in such a way as to respect the thematic hierarchy, then we void the VP-internal hypothesis of its original motivation.

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(ii) Moreover, we propose that the arguments of the verb are projected according to the thematic hierarchy, agent-dative-theme, as proposed for Japanese and German for instance (see Hoji 1985 and Webelhuth 1989).
(iii) Further, all arguments are indirectly θ-marked: The θ-roles of the verb are not discharged within the VP. All the θ-roles percolate up to inflectional heads (as in Higginbotham 1985), namely, the AGRs in (14). The θ-roles are then discharged in their specifier positions in accordance with the thematic hierarchy. Thus, theme is discharged first, and then dative, and finally agent.

(iv) Case is also assigned by AGR.

By claiming that Case and θ-roles are both assigned by the same functional heads, we capture Levin’s (1983) proposal that Basque only has inherent Case. That is, Case assignment in Basque is linked to thematic assignment; Case is predictable given the D-structure thematic relations. In other words, we are claiming that verbs in Basque are ‘defective’: they are neither Case-assigners nor direct θ-assigners.8

4.1 Free word order in Basque

The structure in (14) also accounts for free word order in Basque. Following Mahajan (1990), we assume that an A-position is a potential Case or θ-position whereas an A'-position is neither a potential Case nor a potential θ-position. Hence, the specifiers of AgrP in (14) are A-positions whereas the SPEC of TP, SPEC of MP and Spec of AuxP are A'-positions.9 Thus, A'-movement of the arguments from their base-position (SPEC of AgrP) to any of the A'-Spec positions will yield all the possible word orders in Basque: ERG DAT ABS, ERG ABS DAT, DAT ABS ERG, ABS DAT ERG and ABS ERG DAT.10

5. More on wh-movement

Now, let us return to wh-movement in Basque. There is a three-way contrast that requires an explanation. First, why is wh-movement licit when the arguments are dropped, as in (11) repeated in (15a, b)? Second, why is extraction of an object over a lexical NP ungrammatical, as shown in (15c) (=12a)? Finally, why is extraction of a subject in the presence of a lexical object only marginal, as shown in (15d) (=12b)?

(15) a. Zer proj ti edango tu whati-ABS drink it-AUX-he
   “What will he drink?”
   b. Nork ti proj edango tu whoi-ERG drink it-AUX-he
   “Who will drink it?”
   c. *Zer Jon-ek ti edango tu whati-ABS John-ERG drink it-AUX-he
   “What will John drink?”
   d. ?*Norki ti ardo-a-φ edango tu whoi-ERG wine-the-ABS drink it-AUX-he
   “Who will drink wine?”

Recall that, in Basque, the wh-operator must appear in a position immediately to the left of the verb, as in (16).

(16) a. Zer edango tu Jon-ek whati-ABS drink it-AUX-he John-ERG
   “What will John drink?”
   b. Nork edango tu ardo-a-φ whoi-ERG drink it-AUX-he wine-the-ABS
   “Who will drink wine?”

Following Ortiz de Urbina (1986, 1987), we assume that this adjacency requirement is just another instance of the verb-second phenomenon which also takes place in Spanish (Torrego 1984) and English (Chomsky 1986) interrogatives. That is, we follow Ortiz de Urbina (1986, 1987) in assuming that 1) COMP in Basque is head initial; 2) the verb left-adojins to AUX in interrogatives; and 3) head to head movement of [V+Aux] then takes places. Thus, (16a) has the following S-structure representation (irrelevant structure omitted):


8 Bok-Bennema & Groos (1984) have also claimed that in Eskimo, ergativity is determined by a parameter of Case-assignment: verbs in Eskimo are defective in that they cannot assign Case. See Johns (1989) for a different analysis for Eskimo also instantiating the idea that verbs in Eskimo are defective.
9 We also assume that there is a NegP, following Laka (1991), which dominates TP. Thus, there are two A'-specifier positions above the highest AgrP: Spec of TP and Spec of NegP.
10 We are aware of the fact that there are right-dislocation sentences such as (7d). That is, lexical NPs can appear to the right of the V-AUX complex. We do not rule out the possibility of adjunction in these cases. However, the structure and interpretation of these sentences must be examined more closely.
Why is the verb required to move to COMP in Basque? We argue that raising to COMP takes place in order to satisfy Proper Government; specifically, the requirement that traces be governed by a lexical head. We have argued in section 2.4 that the verb does not lexically govern its object. In this respect, the object behaves like a subject which is never lexically governed by the verb. Now, a lexical head can enter into three different types of relations with NPs: it can Case-mark an NP, θ-mark an NP, or bind an NP. Any of these three relations satisfies what we will call X°-government as stated in (19) below (see Cheng & Demirdache 1990). The two first options are not available in Basque since the verb does not Case-mark or θ-mark its arguments. The third option is available only if the verb moves to a position from which it can c-command and, hence, bind its arguments. Thus, V to COMP is obligatory in (17) because it is the only way of satisfying X°-government in Basque.

Let us now return to the three-way contrast in (15). First, when the arguments of the verb are dropped, wh-movement will always yield a well-formed representation if we assume that the complex [V+Aux] has raised to COMP. That is, if (15a) for instance, has the following S-structure representation:13

(18) CP[Zer i c[edangoi+dulk TP[AgrP[pro... AUXP[AUX[i k] AgrP[i ]...VP[i ]
what-ABS drink+it-AUX-he

Finally, how do we derive the contrast in grammaticality shown in (15c, d)? (15c) and (15d) are ill-formed because X°-government is violated: the verb has not moved to COMP and, hence, does not c-command either of its arguments. But why is extraction of the object worse than extraction of the subject? To account for these degrees of grammaticality, we assume a version of ECP developed in Cheng & Demirdache (1990) stated in (19):14

(19) α XP-governs β iff α is an XP c-commanding β and α is co-indexed with β.

α X°-governs β iff α is a lexical X° category and
i) α θ-marks or Case-marks β;
or ii) α c-commands β and α is co-indexed with β.

Further, we propose that:

(20) (a) When both X°-government and XP-government are violated, extraction yields an ungrammatical sentence.
(b) When X°-government does not hold but XP-government holds, extraction yields a marginal sentence.

Given (20a), the ungrammatical (15c) must violate XP-government as well as X°-government. On the other hand, given (20b), XP-government must hold in (15d) since (15d) violates X°-government but is only marginal. Why is XP-government satisfied in (15d) but violated in (15c)? If we assume Rizzi’s Relativized Minimality (1989), (15c) will violate XP-government if there is a potential antecedent governor (henceforth PAG) intervening between the wh-operator and its trace. Crucially, for this PAG to block A'-movement, it must be in an A'-specifier. Now, in (15c), the only possible pag is the lexical subject, Jonek. Hence, the latter must be in an A'-specifier. If we extend Jelinek’s (1984) analysis of lexical NP’s in Walpiri to Basque, then the lexical subject, Jonek, is in an A'-specifier. That is, overt NPs in Basque are adjuncts base-generated in A'-specifiers, namely Spec of TP, MP and AuxP. The arguments are the agreement morphology itself: they are the agreement clitics base-generated in A'-positions (SPEC’s of AgrP’s) which incorporate into the AUX as it moves up to Tense.15

Given this analysis, the contrast in (15c) and (15d) is straightforward: extraction of the object in (15c) crosses an overt NP in an A'-position, Jonek, yielding a violation of XP-government. Jonek, being a pag for the object trace, blocks XP-government between the wh-operator and its trace. Further, X°-government must hold.

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11 Note that in Basque, both the auxiliary and the verb must move to COMP, whereas in English, only the Auxiliary moves to COMP.
12 The idea that lexical heads can bind (=antecedent-govern) an NP is proposed in Lasnik & Saito (1992). It follows from the hypothesis in Stowell (1981) that “only X°’s can be proper governors”. An X° binds α if it c-commands α and is co-indexed with α.
13 Note that when the arguments are dropped, there is no way of telling whether the verb is in its base-position or has adjoined to Aux and then moved to COMP. Since these sentences are always well-formed, we assume that movement to COMP has taken place, on a par with (17).
14 For the exact formulation of (19) and (20) and the supporting arguments, see Cheng & Demirdache (1990).
15 Recall that an A'-position is a position in which neither Case or theta-role is assigned. Hence, Spec of TP, Spec of MP and Spec of Aux P are A'-positions whereas Spec of AgrP is an A-position.
16 Given this analysis, there is no ‘pro-drop’ in Basque. That is, there are no pro’s. There are only traces of incorporated clitics. Overt NP’s are adjuncts which are free to appear or not.
government is violated. Hence, by (20a), the sentence is ungrammatical. (15d), on the other hand, has the following representation:

\[
(21) \quad ?^{*}_{\text{CP}} [\text{Nork}_1 \text{TP}_1 \text{ar}do-a \text{ edango du}] \\
\text{who}_{1,\text{ERG}} \text{ wine-the-ABS drink it-AUX-he}
\]

In (21), there is nothing intervening between nork “who” and its trace. Thus, XP-government is satisfied. However, the subject is not X°-governed by the verb. Hence, by (20b), the sentence (15b) is only marginal.

Thus, there are two ways of implementing our VP-external hypothesis. Overt NPs in Basque are either arguments base-generated in A-positions, as in (14); or adjuncts base-generated in A'-positions binding agreement clitics in A-positions. These clitics are the arguments of the verb. If we adopt this left-dislocation analysis of lexical NP’s in Basque, we predict that overt NP’s can act as specified subjects with respect to wh-movement.17

6. Similarities between the external and internal hypotheses

As we have stated in the beginning of this paper, Williams (1981) proposed that there is a designated argument within the thematic structure of the verb which must be realized external to the VP, in the specifier of a functional phrase (IP). In contrast, Kuroda (1986) and Koopman & Sportiche (1988) amongst others proposed that all the arguments of the verb are realized internal to the VP. Based on evidence from Basque, we have proposed a third alternative, namely, that all the arguments of the verb are projected external to the VP in the specifier positions of functional phrases. Thus, they are all external arguments. These three proposals share two assumptions: i) Arguments are projected according to a thematic hierarchy; ii) The structurally highest NP (the ‘subject’) corresponds to the highest argument in the thematic hierarchy. The VP-internal and the VP external hypothesis share a further assumption: θ-roles are assigned uniformly in the same manner, by the verb in the VP-internal hypothesis (direct θ-marking), by functional heads in the VP external hypothesis (indirect θ-marking). If these functional heads are in fact projections of the

verb (L-related projections), then one may ask in what sense the arguments are really external to the VP.

7. A final speculation

Given the analysis we have proposed for Basque, what is the status of the VP-internal hypothesis? We assume that it is not universal but subject to parametric variation. The question then is Why is Basque different? If the VP-internal hypothesis is correct then INFL is a universal raising category and all languages have NP-movement. It has been argued in the literature, however, that there is no passive or raising in Basque. This follows from our analysis: there is no NP-movement in Basque because there is no trigger position for A'-movement.18 That is, all the arguments are outside the VP at D-structure. We claim that the parameter involved is the inability of verbs in Basque to assign Case and to directly θ-mark their arguments.19

REFERENCES


Note that there is no crossing effect with left-dislocation in Basque, as in other languages with clitics, such as Arabic; see Demirdache to appear. The difference between A'-movement which induces crossing and A'-movement which does not induce crossing seems to be related to whether there are independently clitics in the language. There is no crossing effect in languages with clitics, because there is no need to “recover” the information via a link between the moved element and its trace.

18 Guilfoyle (1988) has proposed that there is no target position (i.e. there is no Spec of IP) in Irish for NP movement to take place.
19 See also footnote 8 on Eskimo.


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