

THE RELATIVE CLAUSE IN MƏDÚMBÀ AND THE ARCHITECTURE OF THE LEFT PERIPHERY

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Abstract

This article provides an analysis of the relative clause construction in Mə́dúmbà that is consistent with some of the most recent theoretical analyses of relatives. Specifically, the article presents various kinds of relative clauses and then establishes the factors that differentiate one from the other. The analysis demonstrates that the structure of the relative clause in Mə́dúmbà, especially as concerns the co-occurrence of the relative marker and a regular complementizer, can be better captured if we assume De Vries' IP-internal relative DP hypothesis and Rizzi's split-C hypothesis and add to these the view that DP-Rel (the IP-internal relative clause) moves to Spec-FinP. It is further proposed that there is an EPP feature with an illocutionary force in the left periphery of CP which attracts FinP and pied-pipes the finiteness clause to the left periphery of the complementizer clause. The appropriate fronted constituent checks this EPP feature in Spec-ForceP (FinP) that is raised to that position.

Key words: relativization, definitivizer, EPP feature, pied-piping, left periphery.

1. Introduction

This article is an in-depth examination of the internal structure of relative clauses in the Mə́dúmbà language in light of recent theoretical analyses. Some traditional analyses for relative clauses suggest that these are comparable to DP-modifiers that are adjoined to the determiner phrase. For others, the relative clause involves complementation. This article presents new data from Mə́dúmbà that can be interpreted as evidence for a new analysis. It gives some descriptive facts about relative clauses in Mə́dúmbà and the issues that a descriptively adequate analysis of relative clauses should be able to account for. After this description, it is shown that the traditional analyses of relative clauses (those that assume that the relative clause is either a DP-adjunct or a DP-complement) cannot adequately account for issues in the Mə́dúmbà relative clause. Based on works done by Rizzi, I will rather adopt the split-C view. In adopting the split-C hypothesis, this paper fits into an ongoing exploration of the functional structure of the left periphery in particular and the cartography approach in general (Rizzi 1997; Cinque 1999, Aboh 2006). In this regard, the observations and conclusions made here are open to further refinements pending new empirical facts and theoretical developments.

The paper starts with a discussion of the different types of relative clauses that the Mə́dúmbà language exhibits. In section 3, I look at how Mə́dúmbà marks the position relativized. Section 4 attempts a detailed analysis of the status, the distribution, the category and the function of a Mə́dúmbà curiosity, the definitivizer *lá*. The internal structure of the Mə́dúmbà relative clause is proposed in section 5 followed in section 6 by its architecture in the light of the left periphery theory.

2. Types of relative clauses

There are many types of relative clauses attested in natural languages. These types can be classified in terms of their syntax, their semantics and the type of relativization strategy that they use. Syntactically, relative clauses can be classified into two broad types: restrictive versus non-restrictive RCs (appositives) with respect to whether RCs are in apposition to the head noun. Restrictive RCs can be divided into two classes, embedded RCs versus adjoined RCs, with respect to whether the RC is subordinate to

(6) illustrates a number of properties regarding relative clauses. We observe from the examples that there is a relative element, which I have analysed as the relative marker (RM) intervenes between the head noun and the relative clause. This relative element agrees with the head noun in class and number. Thus, we see that in (6a) the relative element is *zà* agreeing with *mén* ‘child which is a class 1 noun.’, whereas in (6b) it is *tsà* in agreement with *bún* ‘children.’ from class 6, in (6c) *mì* agrees with *ntsà* ‘water.’, a noun from class 3 in Mèdúmbà. I refer the reader back to Kouankem (2013:59-60) for more details on agreement marking in the Mèdúmbà determiner phrase. We also observe in (6) that the head noun systematically precedes the relative marker with which it agrees. Taking agreement to be a Spec-head relation as standardly assumed, the observations above suggest to me that the relativized noun and the relative marker stand in a Spec-head relation. We will come back to the precise structure of this construction later on. Another interesting fact about the Mèdúmbà relative clause concerns the definitivizer *lá*, which always appears in relative clause-final position. The ungrammaticality of (6e) stems from the fact that this element has been omitted in this construction. Generally, it is the case that only one element marks relativization in relative clauses. If then in Mèdúmbà we have both a relative marker as the boundary of the relative clause upward and a definitivizer which delimits the RC downward, which strategy can better capture these facts? Example (6) also illustrates a cross-linguistic hierarchy with respect to relativization. Many positions can be relativized in Mèdúmbà, the question is whether the same derivational strategy is employed for all the positions. The discussion in the following subsections attempts answers to these questions raised. We begin with the issue of marking the position relativized.

3. Marking the position relativized

It is an interesting question to consider how Mèdúmbà marks which position in the Srel is the NPrel position. For instance how does Mèdúmbà signal the meaning difference between ‘the man who saw Nami’ where NPrel is the subject of *saw*, and ‘the man who Nami saw’, where NPrel is the direct object of *saw*? There appears to be four ways of presenting NPrel in Mèdúmbà: It may be i) a resumptive pronoun, ii) a relative marker, iii) a non-embedding strategy or iv) nothing at all. We consider these possibilities in turn. In the discussion, we will use the notation NPrel to refer to the position in the restrictive clause and Srel to refer to the restrictive clause. For example in ‘the men that I know’ NPrel is in the direct object position of Srel.

3.1. The non-embedding strategy

In many languages, non-embedding is the main or even the only relativizing strategy possible (Givón 1990: 652). In a non-embedding relative clause, the coreferent noun may be coded as an anaphoric pronoun if the relative clause follows the main clause. When the relative clause precedes the main clause, the coreferent argument is often expressed as a full NP in the relative clause and as an anaphoric pronoun in the main clause. In Mèdúmbà, an anaphoric pronoun most commonly refers to the coreferent noun in the main clause as in the following examples.

7) a. *Unembedded, pre-posed (Subject-rel, Object-main)*

mèn à ná' ndù' bì lá, mèn ná' yèn ì
 person he P₆ take knife DEF, I P₆ see him
 ‘The person who took the knife, I saw him.’

b. *Unembedded, pre-posed (Object-rel, Object-main)*

bà' mèn yèn lá, bú cwěd kwùl ì
 house I see DEF, they Prog build it
 ‘The house that I saw, they are building it.’

In these examples, the relative clauses look exactly like main clauses, with the exception that a special morpheme –the definitivizer *lá* appears in the relative clause final position. The modifying subordinate proposition is unembedded (i.e. it has the properties of a simple ordinary construction) and retains its own normal main-clause structure.

3.2. The pronoun retention strategy

The pronoun retention strategy is used in truly embedded relative clauses, most commonly when they are post-nominal. In this case, the position relativized is explicitly indicated by means of a resumptive personal pronoun. This strategy is illustrated below.

- 8) a. **mò yǎn mèn zò à làb ù lá**
 I see person RM he beat you DEF
 ‘I have seen the person who has beaten you.’
- b. **mèn zò ù fá ɲwà’ni yì lá**
 person RM you give book him DEF
 ‘The person to whom you gave the book.’
- c. **díáŋ zò à yàb mbàb nǔm bwà lá**
 chair RM he put meat on it DEF
 ‘The chair on which he put the meat.’
- d. **mèn zò ù kwùl bà’ ì lá**
 person RM you build house it DEF
 ‘The person whose house you build.’
- e. **mò yǎn mèn zò ù làb ì lá**
 I see child RM you beat it DEF
 ‘I saw the child that you beat.’

Mèdúmbà is a good example of a pronoun retention language not only because the head noun is referred to by means of a resumptive element within the relative clause (cf. *ì, bwà, yì, à* in the examples above) but also because using a resumptive element is not characteristic of simple declarative clauses in Mèdúmbà as the following example illustrates.

- 9) **ù fá ɲwà’ni nǔm ɲgâmi**
 you give book to Ngami
 ‘You gave the book to Ngami.’

As can be observed from this example, Mèdúmbà does not make use of resumptive pronouns in simple ordinary constructions. In Mèdúmbà, a resumptive pronoun is obligatory if an oblique argument is extracted by relativization. Compare examples (10a) and (10b) below in which we have oblique pronouns versus (10c) where a direct object has been extracted.

- 10) a. **mèn zò mbàŋ lù nǔm ì lá**
 person RM rain fall on him DEF
 ‘The person on whom it rained.’
- b. **bún tsò ɲgâmi fà ɲká nǔm bú lá**

people RM Ngami give dishes to them DEF
'The people to whom Ngami gave dishes.'

c. **mèn zə ɲgâmi kǎ (i) lá**
person RM Ngami love him DEF
'The person whom Ngami loves.'

(10a) and (10b) show that when an oblique argument is extracted by relativization we obligatorily get a resumptive pronoun in the position from which extraction has taken place. On the contrary, (10c) indicates that we optionally get a resumptive pronoun if a matrix direct object is extracted. I assume that when a resumptive pronoun is optionally present it is simply repeated for emphasis. Based on (10a) and (10b), I conclude that the object of a preposition when relativized requires a resumptive pronoun.

3.3. The relative marker strategy

This strategy involves the use of relative markers. These markers are distinct from resumptive pronouns. Unlike resumptive pronouns, relative markers tend to appear not in the normal position of the argument in the main clause, but rather at the clause boundary. Most commonly, they are fronted, i.e. they appear at the beginning of the relative clause. The relative marker helps distinguish the relative clause from a main clause. The use of the relative marker strategy is illustrated below.

- 11) a. **mén zə mə yân lá**
child RM I see DEF
'The child that I saw.'
- b. **bún cǎn li tsə à fá ɲkáb nǔm bú lá**
children these here RM he give money to them DEF
'These children to whom he gave money.'
- c. **ɲká mám mi ɲgâmi fá nǔm bú lá**
dishes my RM Ngami give to them DEF
'My dishes that Ngami gave to them.'
- d. **mə yân mén zə mà-áb cwěd ndú' nà lá**
I see child RM mother-his Prog cultivate farm DEF
'I saw the child whose mother is farming.'
- e. **fù sə mə fù yí lá**
medecine RM I gave her DEF
'The medicine that I gave to her.'

Tsə, zə, sə, mi are generally referred to as pronouns because they are words used to refer back to the antecedent noun in the main clause and as such behave like pronouns (i.e. they are nouns' substitutes). They are also termed relative pronouns because they only appear in relative clauses. They mark the boundary between the main clause and the relative clause and as said earlier, they help distinguish the relative clause from a main clause.

We observe from the examples in (11) that the relative marker intervenes between the head noun and the relative clause. This relative marker agrees with the head noun in class and number. The relative element has also been traditionally referred to as a relative subject pronoun. There are two reasons for this. First, it is a pronominal element referring back to the head noun, and agreeing with it in class and number.

We observe in (13b) and (13c) that both resumptive pronouns and gaps are used. (13c) and (14b) would lead one to think that Mèdúmbà has headless relatives. In these examples, the head noun of the relative is understood but unpronounced. In Mèdúmbà only [+ human] nouns have overt pronominal forms as can be seen from (13b). [-human] pronouns have a zero pronominal form which corresponds to a ‘silent pronoun.’ *pro*. This explains why we do not have a pronoun replacing ‘dishes.’ in the examples in (14).

To conclude this section on the strategies used to mark the relativized position in Mèdúmbà it is worth noting that the question of which positions in a language can be relativized is not independent of the relative clause forming strategy used. I now turn in the next section to tease out the distribution, function and grammatical category of the definitivizer *lá*.

4. Status, grammatical category and function of the definitivizer *lá*

Another interesting fact, which I pointed out about the Mèdúmbà relative clause concerns the fact that whatever strategy is used to mark the position relativized, a definitivizer (DEF) always appears at the relative clause-final position. A semantic analysis of *lá* and the various contexts in which it occurs is needed before we reach a fine-grained analysis of the function of this element. For the sake of the description, I will continue to refer to this element as the definitivizer. First, I focus on the status of *lá*. The question of the status of this definitivizer will help in decomposing the internal structure of the relative clause in Mèdúmbà.

4.1. Status and distribution of *lá*

In relative clauses, the antecedent noun is usually definite and the relative clause, is closed by an anaphoric definitiviser *lá* which serves to convey or reinforce the specificity of the antecedent noun. In some cases, the definitivizer appears after the verb just like adverbs (15a). Given this distribution, it is tempting to consider *lá* an adverb; adverbs are used to modify verbs. If *lá* is an adverb, we expect it to appear in simple construction occupying the position of an adverb.

- 15) a. **mén zè m̀è ỳn lá**
child RM I see DEF
‘The child that I have seen.’
- b. **mén s̀è’ s̀en**
child come today
‘The child came today.’
- c. ***mén ỳn lá**
child see DEF

Though the definitivizer *lá* shares some distributional properties with adverbs, it cannot be considered an adverb since not only can it not bring specific information that an adverb brings to a verb, but also its use in a simple declarative sentence is ungrammatical as the example (15c) above illustrates. In some cases, the definitivizer follows a noun as can be seen in example (a) below.

- 16) a. **m̀è ỳn mén z̀è mà-áb cwěd ndù’ ǹà lá**
I see child RM mother-his Prog cultivate farm DEF
‘I saw the child whose mother is farming.’

Generally, in Mèdúmbà, modifiers such as demonstratives, determiners, adjectives, etc. follow nouns. Considering that *lá* also comes after nouns, one can

question whether *lá* is a type of noun modifier that we have not yet accounted for. The ungrammatical sentence (16b) indicates that *lá* cannot appear in a simple sentence and modify the noun. This suggests to me that *lá* has no determiner property. (16c) is also ungrammatical because the definitivizer has been omitted in the relative. This therefore shows the importance of this definitivizer in the relative clause.

b. ***mà-áb cwěd ndù' nà lá**
mother-his Prog cultivate farm DEF

c. ***mè yǎn mén zè mà-áb cwěd ndù' nà**
I see child RM mother-his Prog cultivate farm

This definitivizer also appears in stories when we narrate a sequence of events or actions as illustrated below.

17) a. **ndà mè ná' sè'è lá, mè ncú ndà ntsù nsi**
as I P₆ come DEF I enter house sit down
'As I came, I entered the house and sat down.'

b. ***mè ná' sè'è ncù ndà ntsù nsi lá**
I P₆ come enter house sit down DEF

c. ***ngǎmì fá nká nǔm bú lá**
Ngami give dishes to them DEF

We observe that in example (17a), the definitivizer appears in the subordinated clause sentence-final position. The ungrammaticality of (17b) and (17c) stems from the fact that *lá* cannot appear in an ordinary construction. Building on the fact that *lá* appears systematically in embedded clauses and never in ordinary constructions; I suggest that *lá* is an element that marks subordination in Mə̀dúmbà. Having determined the status of the element *lá* in the next section I turn to the question of its grammatical category and function.

4.2. Grammatical category and function of *lá*

We have seen all along that the definitivizer *lá* occurs only in relative clauses and only in sentence-final position. We have also proved that *lá* cannot stand alone and is neither an adverb nor a determiner-like element. I suggest, by way of a hypothesis, that it probably belongs to a functional category just like the complementizers 'if' and 'that.' Consider the examples below with if, that and *lá*.

18) a. I wonder **if** he came
b. I know **that** he came

c. **nká mì ngǎmì fá nǔm bú lá**
dishes RM Ngami give to them DEF
'The dishes that Ngami gave to them.'

In example (a), 'if' gives the structure its interrogative nature. 'That' in (b) introduces the declarative sentence and in example (c), the definitivizer *lá* gives the embedded nature to the example. In Mə̀dúmbà an embedded clause cannot be constructed without this element. This explains the ungrammaticality of the structure in (19) below.

19) * **nká mì ngǎmì fá nǔm bú**
Dishes RM Ngami give to them

This definitiviser also appears in another Grassfield Bantu language: Bafut. One prominent feature of the relative construction in Bafut is the relative particle *láá* which occurs at the right edge of the relative clause as illustrated below.

- 20) a. **m-û w-á m-á à k-ì b-òò ñ-kw-ú láá à kw-ò-m-ê**
 1-child 1-the COMP SM P₂ meet 1-ghost DEF he die-COMP
 ‘The child who met a ghost has died.’

[Tamanji 2009: 97]

- b. **m-b-í m-á d-ɜ-ì k-ì kw-ù-r-ê àn-s-áŋ ɣ-à, ò f-í-í**
 10-goats COMP 10-SM P₂ eat 1-corn 1-my you remove
 ‘Goats which ate my corn, you (dare) set them free!’

As Tamanji (2009: 97) indicates, the presence of this particle is obligatory in relative constructions. The definitivizer *lá* in Mòdúmbà and *láá* in Bafut help to distinguish between a simple ordinary construction and a relative clause. The fact that this element is obligatorily present in a clause to tell us about the type of construction we are dealing with, (that is a relative clause) suggests to me that the definitivizer is like a complementizer that has scope over the entire structure though it appears at the sentence-final position. I suggest that at some point in the derivation, it was in the sentence-initial position like the English *if* or the French *si*. Building on this, I propose that *lá* in Mòdúmbà was in sentence initial position. This position represents the head of the complementizer phrase (CP). I further suggest that some strong feature in the left periphery of the CP attracted the entire clause, stranding the complementizer/definitivizer *lá*. Put another way, I suggest that constituents that precede the definitivizer *lá* occur within the left periphery and must have been attracted there by some C-type head. What needs to be determined is the exact position that *lá* occupies in the left periphery. We turn to this in the next section.

5. The internal structure of the Relative Clause

We observed that in Mòdúmbà the head noun precedes the relative clause. When a relative marker is present, the head noun precedes and agrees with it in class and number. The fact that the head noun obligatorily precedes the relative pronoun and shows agreement with it may suggest that the relation between the head noun and the relative pronoun is a local relation. We also noted that the relative complementizer in Mòdúmbà appears in the sentence final position. I will show that the analyses of relative clauses, which assume that the head noun is adjoined to the relative clause or has CP as its complement, cannot adequately account for issues in the Mòdúmbà relative clause. Rather, an analysis, which assumes that some elements have moved to the left periphery of CP, will better account for the data.

5.1. Complementation or adjunction?

The traditional analysis for relative clauses suggests that these are comparable to DP-modifiers that are adjoined to the determiner phrase (Vergnaud 1974:146). It is therefore commonly assumed that the relative clause involves a CP that right adjoins to DP. In addition, Spec-CP of the relative clause hosts a null operator that is co-indexed with the relative head noun. In terms of this analysis, a sentence like (21a) is assigned the partial representation in (21b).

- 21) a. **m-én z-ò m-ò y-ǎn lá**
 child RM I see DEF
 ‘The child that I have seen.’

b. [DP méni [DP [CP OPi [C⁰ zè [IP mà yǎn lá ti]]]]]

Under Kayne (1994:chapter 9), however, the relative clause involves a complementation structure similar to that in (22), where the proposition (IP) merges as the complement of the relative complementizer under C to form CP, whose specifier hosts the relative noun that raises there. The CP with the relative noun in its specifier then merges with D, which hosts the determiner to form the DP, that is, the relative clause.

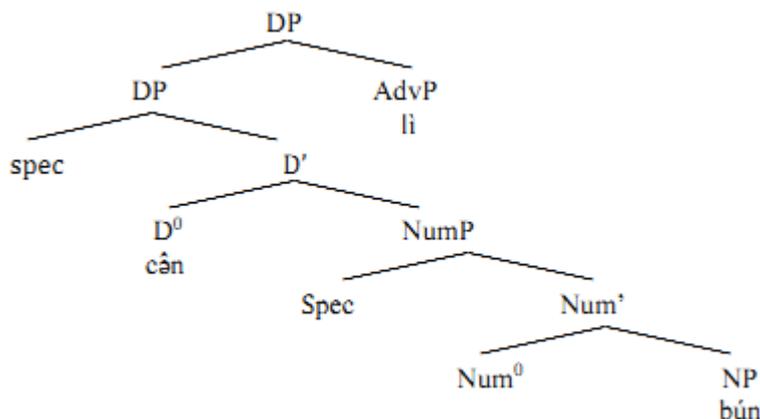
22) [DP [D [CP méni [C⁰ zè [IP mà yǎn lá ti]]]]]

The question naturally arises how to choose between these two competing analyses. This section discusses new data from Mèdúmbà that can be interpreted as evidence for a new analysis. Neither the adjunction nor the complementation theory gives details about the status of *lá*, which, as we have demonstrated, is the head of the complementizer phrase. If the moved noun is in Spec-CP and the determiner in D, as the complementation theory suggests, how can we account for the Noun-Determiner word order in Mèdúmbà?²

In this structure, the noun in Mèdúmbà is generated in a position below NumP. In Mèdúmbà a determiner phrase like (23a) has, the derivations proposed in (24a) and (24b).

23) **bún cǎn lì**
children these here
'These children.'

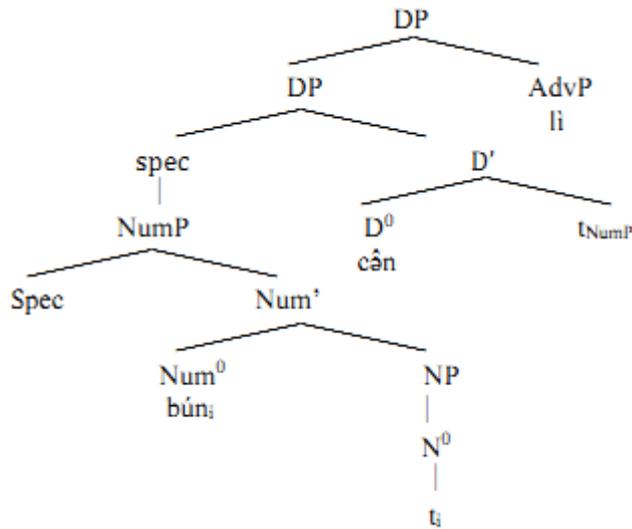
24) a.



In this derivation, the noun follows rather than precedes the determiner. In order to derive the correct word order, the noun first moves to Num⁰. Subsequent movement of NumP to Spec-DP yields the word order attested in Mèdúmbà DP as outlined in the structure below.

² See Kouankem (2013) for more details about the Mèdúmbà DP.

b.

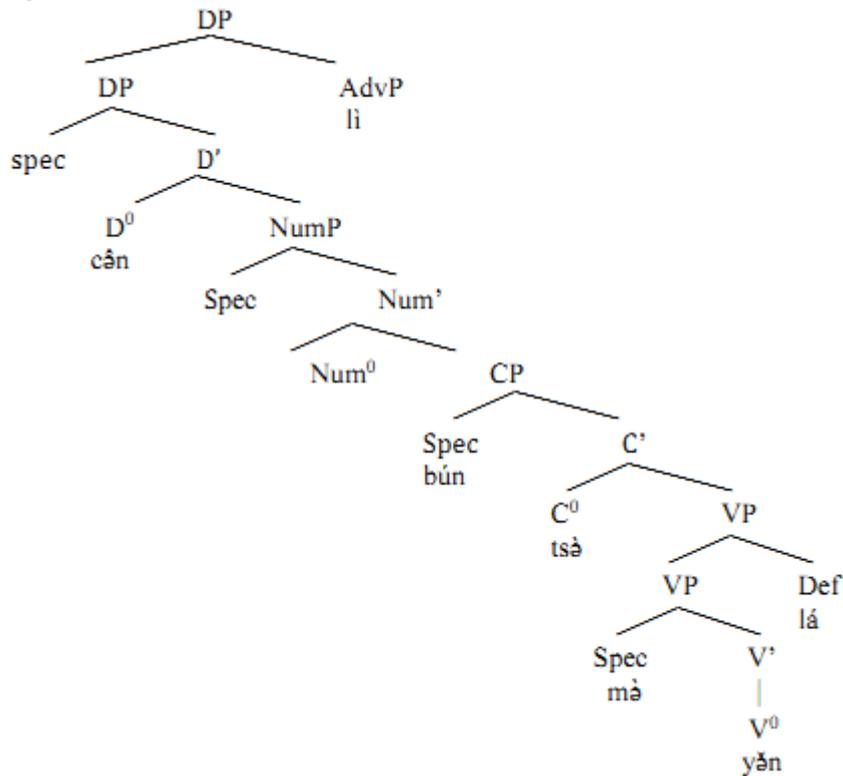


Following the complementation theory, a DP, which contains a relative clause, takes CP as its complement. Building on the fact that the structure in (24) above is the one assigned to the Mòdúmbà DP, in a relative clause we make CP the complement of NumP.

From a descriptive point of view and following the complementation theory, a clause like (25) below can have the structure outlined in (26).

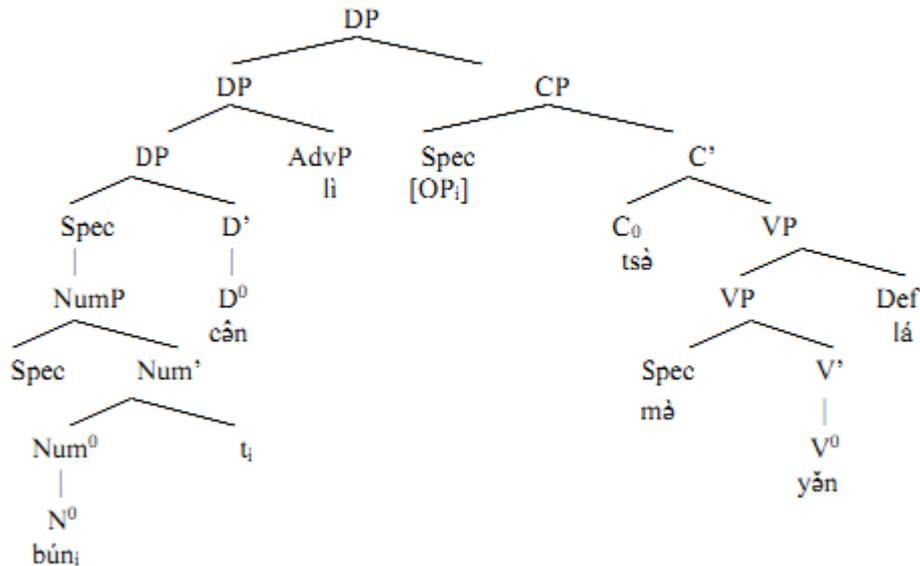
- 25) **bún cân li tsò mà yǎn lá**
 children these here RM I see DEF
 ‘These children that I have seen.’

26) a.



better as it allows one to have the head noun before the demonstrative determiner. However, we run into problems with the definitivizer as the structure in (27) below illustrates.

27)



The derivation above has the advantage of accounting for the word order attested in the Mòdúmbà relative clause. This structure also respects the DP structure proposed for the Bantu determiner phrases. However, we observe from this derivation that the definitivizer *lá* is also taken to be a VP -adjunct. The adjunction theory does not tell us how the definitivizer came to appear where the relativized noun is supposed to be base-generated. Even if the definitivizer is taken to be a DP-adjunct, we have the correct word order but the complementizer nature of *lá* is still not rendered. Building on this, I show in the section that follows that the structure of the relative clause in Mòdúmbà can be better captured if we assume Rizzi's split-C hypothesis, De Vries' IP-internal relative DP hypothesis for relative clauses.

6. The position of the Mòdúmbà Relative Clause in the left periphery

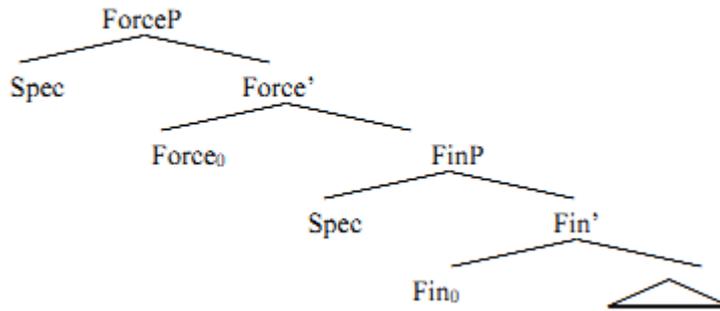
In this section, I will adopt the baseline of the insights proposed by De Vries (2002). However, I will slightly depart from De Vries' view. De Vries (2002: 123) proposes that the relative head starts out as a full relative DP, whose head hosts the relative pronoun when there is one. This would mean that a German relative clause such as (28a) could be partially represented as in (28b) whereby the NP moves DP internally to specifier of the DP prior to raising to Spec-CP. In this framework, the strong [wh] features of the relative pronoun under D trigger movement of the relative DP to Spec-CP. In addition, the outer D is still needed because it allows the relative head noun to ultimately associate with a determiner, so that its θ -features can be checked and the whole relative clause can function as a proper argument.

- 28) a. **Ich fürchte den Herrn der eine Pistole trägt**
 I fear the.Acc gentleman. Acc who.Nom one gun carries
 'I fear the gentleman who carries a gun.'

[De Vries 2002:123]

- b. [DP [D den [CP_ [DP-rel Herrnh der th]i [C0 _ [IP ti eine pistole tragt]]]]]

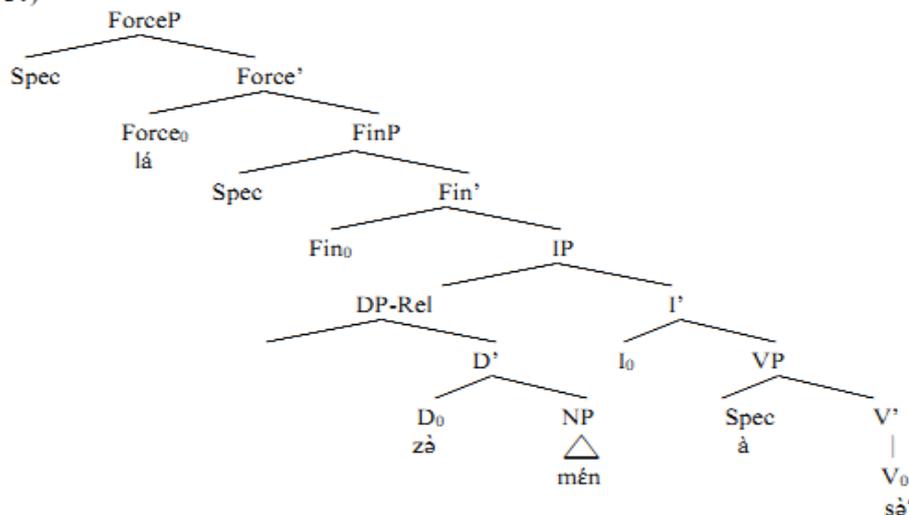
30)



Still assuming the split-C hypothesis, I further suggest that when CP is split, the maximal projection whose head hosts the definitivizer *lá* merges with the Finite Phrase (FinP) since it is the lowest functional projection within the C-system and the locus of finiteness specification. I suggest, following Rizzi (1997), Aboh (2004) and related work that FinP encodes the distinction between +finite and –finite, but also determines modality as suggested by Aboh (2006:46). On this basis, we can also suggest by way of a hypothesis, and following personal comments made by Aboh, that Fin is involved in determining whether a clause is nominal (i.e., -finite) or not. In the context of relatives this would mean that Fin hosts the relative marker. The relative phrase moves to Spec-Fin to check the nominal feature under Fin₀ and the whole FinP moves to the specifier of the clausal determiner whose head is encoded by the complementizer *lá*.

The phrase marker schematized in (31) below represents the base structure of the relative phrase constituents. In this derivation, the relative noun is base generated as the complement of DP-Rel following proposals made by De Vries (2002). The complementizer *lá* is under Force₀.

31)

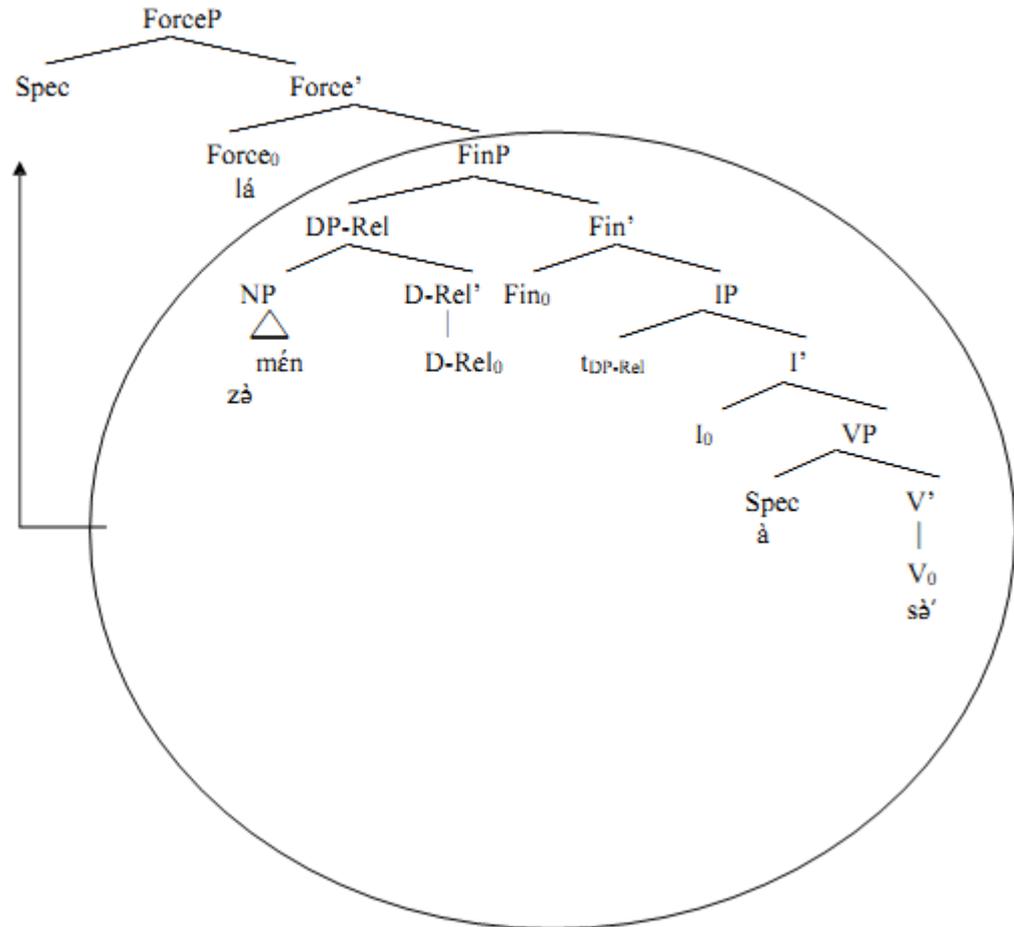


mén zè à sè' lá
 child RM SM come DEF
 'The child who came'

Assuming as earlier suggested that Fin is also involved in determining whether a clause is nominal or not, we propose that DP-Rel moves to Spec-FinP. Assuming that the proposed analysis is on the right track, I furthermore propose, in line with Aboh (2006:3) that there is an EPP feature with an illocutionary force in the left periphery of CP, which attracts FinP. This EPP feature is checked either by a null operator or by an appropriate fronted constituent that is raised to that position. Based on works done by Rizzi, I refer to this functional category which pied-pipes FinP as the Force Phrase. In

Mə̀dúmbà this scenario will be instantiated by the structure below where DP-RelP moves to Spec-FinP and FinP subsequently raises to Spec-ForceP.

32)



Building on this, I propose that the main clause merges with the finite clause. The latter merges with Force₀, encoded by the definitivizer to form ForceP. In terms of Kayne (1994), the relativized noun must move in overt syntax to Spec-CP, to check the strong features under C. Following proposals made by Aboh, I furthermore propose that in Mə̀dúmbà the relative clause (i.e. the internal relative-DP) must raise to Spec-FinP to check the nominal property and subsequently FinP moves to Spec-ForceP to check the EPP feature. This predicate fronting is referred to in the literature as pied-piping (Nkemnji 1995:209).

This structure straightforwardly accounts for the Mə̀dúmbà relative clause properties. We have seen all along that the relative pronoun agrees with the head noun in class and number. This condition is satisfied here since the head noun and the relative pronoun stand in a Spec-head configuration in DP-Rel. When DP-Rel moves to Spec-FinP, the strong nominal feature under Fin is also checked in a Spec-head configuration. Movement of FinP to Spec-ForceP besides satisfying the checking of the strong EPP feature located under Force₀ also helps to account for the word order attested in the Mə̀dúmbà relative clause, where the definitivizer/complementizer appears in the sentence final position.

7. Conclusion

This article provides an analysis of the relative clause construction in Mòdúmbà that is consistent with the analysis of the DP structure in the language and with some of the most recent theoretical analyses of relatives, notably Rizzi (1997), De Vries (2002) and Aboh (2004, 2005 & 2006). Specifically, the paper presents various kinds of the relative clauses and then establishes the factors that differentiate one from the other. The analysis demonstrates that the structure of the relative clause in Mòdúmbà, especially as concerns the co-occurrence of the relative marker and a regular complementizer, can be better captured if we assume De Vries' IP-internal relative DP hypothesis and Rizzi's split-C hypothesis. Assuming the split-C hypothesis proposed by Rizzi (1997), I suggest that DP-Rel moves to the left periphery of the complementizer clause and when this is done, the maximal projection whose head hosts the definitivizer *lá* merges with the Finite Phrase (FinP) since it is the lowest functional projection within the C-system and the locus of finiteness specification. I further propose that there is an EPP feature with an illocutionary force in the left periphery of CP which attracts FinP. This EPP feature is checked in Spec-ForceP by the appropriate fronted constituent (FinP) that is raised to that position. Based on works done by Rizzi, I refer to this functional category which pied-pipes FinP as the Force Phrase. I indicate that in adopting the split-c hypothesis, this article fits into an ongoing exploration of the functional structure of the left periphery in particular and the cartography approach in general (Rizzi 1997, Aboh 2004, 2006).

References

- Aboh, O. Enoch. 2004. *The Morphosyntax of complement-head sequences: Clause structure and word order patterns in Kwa*. New York/Oxford, Oxford University Press.
- Aboh, O. Enoch. 2005. 'Deriving Relative and Factive Clauses', in Contributions to the thirtieth incontro di Grammatical. Università Ca' Foscari Venezia. 265-286.
- Aboh, O. Enoch. 2006. 'Complementation in Saramaccan and Gungbe: the case of c-type modal particles', in *Natural Language and Linguistic Theory* 24.1: 55.
- Chomsky, Noam. 1995. *The Minimalist Program*. Cambridge, Mass : MIT Press.
- Chomsky, Noam. and Howard Lasnik. 1977. On Filters and Control. *Linguistic Inquiry* 8: 425-504.
- Cinque, Guglielmo. 1999. *Adverbs and Functional Heads*. Oxford University Press, New York.
- Comrie, Bernard. and Tania. Kuteva. 2013. Relativization on Subjects, in: Dryer, Matthew S & Haspelmath, Martin (eds.). *The world Atlas of Language Structures Online*. Leipzig: Max Planck Institute for Evolutionary Anthropology. (Available online at <http://wals.info/chapter/122>, Accessed on 2020-07-28.)
- De Vries, Mark. 2002. *The Syntax of Relativization*. PhD dissertation. LOT Trans 10. Utrecht, The Doetjes (eds.). Linguistics in The Netherlands.
- Givón, Talmy. 1990. *Syntax: A Functional-typological Introduction*. Volume 2. John Benjamins Publishing Company, Amtersdam/Philadelphia.
- Kayne, Richard. 1994. *The antisymmetry of syntax*. Cambridge: The MIT Press.
- Keenan, Edward. 1985. 'Relative Clauses.', in T. Shopen (ed.), *Language Typology and Syntactic Description*, vol II: Complex Constructions, 141–170. Cambridge University Press.
- Keenan, Edward and Bernard Comrie. 1977. 'Noun phrase accessibility and universal grammar', in *Linguistic Inquiry*, 8, 63–99.
- Kouankem, Constantine. 2013. Determiner phrase structure and concord in Mòdúmbà, South African Journal of African Languages, 33:1, 59-64.
- Kuteva Tania and Bernard Comrie. 2005. 'The typology of relative clause formation in African languages', in *Studies in African linguistic typology*. (ed.) F.K. Erhard Voeltz. John Benjamins Publishing Company. Vol 64.
- Nkemnji, Micheal. 1995. Heavy Pied-piping in Nweh. Ph.D dissertation, University of California, Los Angeles.
- Rizzi, Luigi. 1997. 'The Fine Structure of the Left Periphery', in Liliane Haegeman, (ed.) *Elements of Grammar*. Dordrecht, Kluwer.
- Rizzi, Luigi. 2001a. 'Relativized Minimality Effects', in M. Baltin and C. Collins (Eds.). *The Handbook of Contemporary Syntactic Theory*, Blackwell, Oxford, pp. 89–110.

- Ross, John Robert. 1967. *Constraints on Variables in Syntax*. Ph.D. thesis, MIT.
Distributed 1968 by the Indiana University Linguistics Club, published 1986 as *Infinite Syntax*, Norwood Press.
- Tamanji, Pius. 2009. *A Descriptive Grammar of Bafut*. Köln: Rüdiger Köppe Verlag.
- Vergnaud, Jean-Roger. 1974. *French Relative Clauses*. Ph.D. dissertation. MIT.

List of abbreviations

Acc	: accusative	ForceP	: force phrase
NP	: noun phrase	EPP	: Extended Projection Principle
VP	: verb phrase	CP	: complementizer phrase
SM	: subject marker	θ -features	: phi-features
P ₆	: remote past	DefP	: definitivizer phrase
RM	: relative marker	COMP	: complementizer
DP	: determiner phrase	Prog	: progressive
NumP	: number phrase	Neg	: negative marker
DEF	: definitivizer	Srel	: restrictive clause
FocP	: focus phrase	NPreI	: relativized noun phrase
Spec	: specifier	RCs	: relative clauses
FinP	: finiteness phrase		