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## Polar Questions in Ñjò-Kóo

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### Abstract

The claim in some quarters is that polar question marking particles cross-linguistically occur either clause-finally or clause-initially. This paper, adopting the minimalist framework of generative syntax, investigates polar questions in Ñjò-Kóo and observes that *yè* which appears to mark such questions in the language is immediately preceded by the subject DP. The paper argues that a clause final high-tone that shows up in such questions in the language cannot be the marker of polar question because the same item occurs in focus constructions. The paper therefore proposes that syntax of polar questions in Ñjò-Kóo involves two probes: *Inter* (interrogative head) and *Emph* (emphatic head), with each capable of triggering displacement operation. The first, *yè*, has an Inter-EPP feature which is valued and deleted by moving the matching goal to its specifier position; while the second, the clause final high-tone, has an EPP

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(d) Njikèm à kΣ<sup>?</sup> npfΣt akèndɔŋ ŋ ? Nweh  
 Njikem Agr Tns eat plantain Inter  
 ‘Did Njikem eat plantain?’  
 (Nkemnji 1995)

(e) Ñjé Adé dé ní àná ? Yorùbá  
 Inter Ade arrive in yesterday  
 ‘Did Ade arrive yesterday?’

(f) Olú wá bí ?  
 Olu come Inter  
 ‘Did Olu come?’

However, evidence from Ñjò-kóo<sup>2</sup> shows to the contrary that the said particle neither occurs clause-finally nor clause-initially but rather immediately follows the subject DP of the clause, as exemplified in (2aii and bii) which are polar question counterparts of the declarative sentences in (2ai and 2bi).

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<sup>2</sup> Ñjò-Kóo is the name proposed by Olaogun (2016) for a group of relatively mutually intelligible speech forms formally called Amgbé/Arigidi-Cluster spoken in the North-western part of Akoko in Ondo State, Nigeria. *Ñjò-Kóo* is spoken in at least nine communities, namely; Ìgáṣí, Arigidi, Eruṣú, Oyín, Urò in Àjòwá, and Àfá, Ùdò, Ògè, Àjè in Òkèàgbè. *Ñjò-Kóo* is a compound name formed from Ñ **jò o** and Ñ **kó o** (or Ñ **ghó o** the variant of Ñ **kó o** used in Urò) which is a form of greeting equivalent to **pèlè o** in Standard Yoruba.

2. (ai) Adé vòdí ura. Àfá<sup>3</sup>  
Ade arrive yesterday  
'Ade arrived yesterday.'
- (aii) Adé yè vòdí ura<sup>4</sup> ?  
Ade INTER arrive yesterday+Emph  
'Did Ade arrive yesterday?'
- (bi) Títí bọ ùji.  
Títí drink water  
'Titi drank water.'
- (bii) Títí yè bọ ùji í?  
Titi Inter drink water Emph  
'Did Titi drink water?'

The polar question morpheme in the sentences in (2) is **yè** and as hinted earlier, it occurs immediately after the subject DP. The paper also advances reasons why the clause final high tone in examples (2aii and bii) cannot be a polar question marker in the language.

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<sup>3</sup> Àfá is a dialect of Ñjò-kóo, the language spoken in the Akoko North-west, Ondo state, Nigeria. In this paper, we use Àfá dialect as representative of the Ñjò-kóo language, except when explicitly mentioned.

<sup>4</sup> **Úrá** has two high tones in citation form but is correctly written as **ura** here because the language disallows a sequence of HHH. When this happens, its phonological rule requires that the last two HH be lowered than the first.

## **2. Theoretical Framework**

This study adopts the Minimalist Program framework as proposed in Chomsky (1995, 1998 and 2002). Minimalist Program is the most recent version of transformational generative grammar which employs fewer linguistic apparatus to construct syntactic structures. The apparatus are operations *select*, *merge*, and *agree*.

*Operation select* takes required word items from the lexicon and put them in the numeration to build syntactic structure. Numeration is a place where selected items needed for building syntactic structures are stored. The lexical items in the numeration are in turn put together by an operation dubbed *merge*.

*Operation Merge and Agree*. Given that operation *move* is a form of *merge* and that movement of features is replaced by *Agree*, the computational system that builds the syntactic tree now consists of two operations namely, *merge* and *agree*.

*Merge* is the operation that combines syntactic elements to form larger structures. It is binary and recursive in nature-building operation which put together selected lexical items from the numeration. Operation *merge* is of two kinds, external and internal. External *merge* involves *merge* operation that originates from the numeration while internal is a syntactic structure operation that affects syntactic objects that are already introduced into the derivation.

*Agree* is a non-lexicalist approach to feature interpretability in the lexicon. The *Agree* method, unlike *move-F* system assumes that only [+interpretable] features of lexical elements are already fully specified in the lexicon before they enter the

derivation, whereas elements with [-interpretable] features acquire their features in the course of the derivation. Given the appropriate domain for features matching, Agree allots values to unvalued features in order to satisfy morphological requirements while at the same time deleting such [-interpretable] features for LF purposes. Crucially, Agree is the operation that establishes a relation between two different linguistic elements, *probe* and *goal*, in the syntactic structure through which feature values can be exchanged. A probe is a head with [-interpretable] features and a goal is an element with matching [+interpretable] features (Hornstein et al. 2005: 317).

### 3. Polar Question Defined

According to Radford (1988:462), questions in natural language can be classified into a number of types. One major typological division for example, is between polar alias yes-no questions and wh-questions. Yes-no questions are so-called because they permit ‘yes’ or ‘no’ (or their counterparts cross linguistically) as appropriate answers. Following Nkemnji (1995:149), the term wh-questions generally refer to questions that involve independent interrogative words such as **ko** ‘what’, **konè** ‘who’, **kòfòn** ‘when’ as exemplified in (3b), (4b), and (5b) which are interrogative counterparts of the simple declarative sentences in (3a), (4a), and (5a).

3. (a) Títí bọ ùji.  
 Títí drink water  
 ‘Titi drank water.’

- (b) Ko Títí yè bọ ?  
What Titi Inter drink  
'What did Titi drink?'
4. (a) Igbéèji uwan ju ògèdè.  
the child eat plantain  
'The child ate plantain.'
- (b) Kone yè ju ògèdè?  
Who Inter eat plantain  
'Who ate plantain?'
5. (a) Igbéèji uwan ju ògèdè úrá.  
The child eat plantain yesterday  
'The child ate plantain yesterday.'
- (b) Kòfòn igbéèji uwan yè ju ògèdè?  
when the child Inter eat plantain  
'When did the child eat plantain?'

While yes-no questions generally refer to questions that do not involve the use of independent interrogative words, as illustrated in (6a-f).

6. (a) Igbéèji uwan yè ju ògèdè é?  
the child Inter eat plantain EHT<sup>5</sup>  
'Did the child eat plantain?'
- (b) Ojó yè vè é?  
Ojo Inter go Emph  
'Did Ojo go?'
- (c) Títí yè bọ ùji í?  
Titi Inter drink water Emph  
'Did Titi drink water?'
- (d) Olú yè wọ?  
Olu Inter cry-Emph  
'Did Olu cry?'
- (e) Olú yè da àju ú?  
Olu Inter buy yam Emph  
'Did Olu buy yam?'

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<sup>5</sup> This extra high tone (EHT) is taken to be an Emphatic head in this work with the assumption that question and focus constructions are generally emphasized. The high tone is usually not realized in instances like:

Òjó yè vá 'Did Ojo come?'  
Òjó yè ké é 'Did Ojo do it?'

Given that the utterances independently end in high toned words/morphemes, the EHT is also used here to indicate that the tone is absent in the declarative sentences from which the yes-no questions are derived. It does not refer to the pitch level of the high tone in the clause.

- (f) Na yè ba bàbá?  
You Inter greet daddy-Emph  
'Did you greet daddy?'

It is observed that the form of the question morpheme in the language differs from one dialect to another. Some use *yè* while others use *yẹ* as evident in the examples (7a-g).

7. (a) Adé yè í da àju? Àjè  
Ade Inter prog buy yam  
'Was Ade buying yam?'
- (b) Òjó yè gà ju ògèdè é?  
Ojo Inter Fut eat plantain Emph  
'Will Ojo eat plantain?'
- (c) Kòsan Adé yè de isi?  
Where Ade Inter buy yam  
'Where did Ade buy yam?'
- (d) Ko Ade yè í dà? Oyín  
What Ade Inter prog buy  
'What was Ade buying?'
- (e) Òjó yè gà ju ògèdè é?  
Ojo Inter Fut eat plantain Emph  
'Will Ojo eat plantain?'

- (f) Òjó yè gà ju ògèdè é? Ùdò  
Ojo Inter Fut eat plantain Emph  
'Will Ojo eat plantain?'
- (g) Adé yè vòdí ura?  
Ade Inter arrive yesterday-Emph  
'Did Ade arrive yesterday?'

Apart from this, the form of the question morpheme changes in some dialects in perfective clause. This implies that its form is syntactically conditioned which is why the Inter should be regarded as a distinct category that projects InterP. If one considers the following examples in (8):

8. (a) Ade yà á dè ìsí Àjè  
Ade Inter Perf buy yam-Emph  
'Has Ade bought yam?'
- (b) Òjó yà á vá Ùdò  
Ojo Inter Perf come-Emph  
'Has Ojo come?'

besides the fact that the inflectional relationship between Asp and Inter shows that the latter is a distinct category (compare 7 and 8), it is also observed that in yes-no clause, the question particle consistently precedes tense and aspect. This supports the general claim that left peripheral position is above the TP (Radford 2009:488).

Further observation shows that when a declarative sentence that contains a final syllable L or M toned verb is turned into a polar question, it is either there is some kind of tonal manipulation where the high tone overrides the original tone of the verb or the high tone follows the verb as exemplified in (9) through (13).

9. (a) Ùji dà.  
rain fall  
'The rain fell.'
- (b) Ùji yè dá?  
rain Inter fall-Emph  
'Did the rain fall?'
- (c) Ùji yè dà á?  
rain Inter fall Emph  
'Did the rain fall?'
10. (a) Olú wọ.  
Olu cry  
'Olu cried.'
- (b) Olú yè wọ?  
Olu Inter cry-Emph  
'Did Olu cry?'
- (c) Olú yè wọ ó?  
Olu Inter cry Emph  
'Did Olu cry?'

11. (a) Olú wọn.  
Olu laugh  
'Olu cried.'
- (b) Olú yè wọn?  
Olu Inter laugh-Emph  
'Did Olu cry?'
- (c) Olú yè wọn ọn?  
Olu Inter laugh Emph  
'Did Olu cry?'
12. (a) Mu sèn.  
I walk  
'I walked.'
- (b) Mu yè sèn ẹn?  
I Inter walk Emph  
'Did I walk?'
- (c) Mu yè sèn?  
I Inter walk-Emph  
'Did I walk?'
13. (a) Bólú vè.  
Bolu go  
'Bolu went.'

(b) Bólú yè vè é?  
Bolu Inter go Emph  
'Did Bolu go?'

(c) Bólú yè vé?  
Bolu Inter go-Emph  
'Did Bolu go?'

Sentences with pronoun subjects also exhibit this tonal behaviour as illustrated in examples (14) through (18) below.

14. (a) Vá wò.  
they cry  
'They cried.'

(b) Vá yè wò?  
they Inter cry-Emph  
'Did they cry?'

(c) Vá yè wò ó?  
they Inter cry Emph  
'Did they cry?'

15. (a) Mu ràn.  
I know  
'I knew.'

(b) Mu yè ràn?  
I Inter know-Emph

‘Did I know?’

- (c) Mu yè ràn án?  
I Inter know Emph  
‘Did I know?’

16. (a) Na vè.  
you go  
‘You went.’

- (b) Na yè vé?  
You Inter go-Emph  
‘Did you go?’

- (c) Na yè vè é?  
You Inter go Emph  
‘Did you go?’

17. (a) Ú vè.  
s/he go  
‘S/he went.’

- (b) Ú yè vé?  
s/he Inter go-Emph  
‘Did s/he go?’

- (c) Ú yè vè é?  
s/he Inter go Emph  
‘Did s/he go?’

18. (a) Èmèn ràn.  
You (pl) know  
'You knew.'
- (b) Èmèn yè ràn?  
you(pl) Inter know-Emph  
'Did you know?'
- (c) Èmèn yè ràn án?  
You (pl) Inter know Emph  
'Did you know?'

Sentences in (9a-13a) and (14a-18a) are declaratives while those in (9b &c to 13b&c) and (14b&c to 18b&c) are their interrogative counterparts.

#### **4. Why the Clause-Final High-Tone is not a Question Marker**

Given the cross-linguistic claim that question morphemes in both polar questions and content questions occur either clause-finally or clause-initially, one may be tempted to assume that the clause-final high tone that always shows up in Njò-Kóo polar questions is also a question marker. There are however empirical and theoretical reasons why this position may not be tenable. The most fundamental of the reasons is that the existence of the high tone is licensed by the presence of the question morpheme in the polar questions. In other words, the high tone cannot exist without the question morpheme in Njò-

Kóo polar questions. This explains the possible misinterpretation in (19a-d) and the ungrammaticality in (19e-f).

19. (a) ?Olú ju ògèdè é  
Olu eat plantain Emph  
'OLU ate plantain.'
- (b) ?Ògèdè Olú ju ú  
ògèdè Olu eat Emph  
'Olu ate PLANTAIN.'
- (c) ?Adé da bàtà á  
Ade buy shoe Emph  
'ADE bought a pair of shoes.'
- (d) ?Bàtà Adé dà á  
Shoe Ade buy Emph  
'Ade bought a pair of SHOE.'
- (e) \*Ayò wọ  
'Ayo laugh.'
- (f) \*Émèn ràn  
'You (pl.) know.'

The sentences in (19a-d) would be interpreted as focus constructions rather than interrogative clauses because the focus marker in Njọ-Kóo may not be phonetically realized but the occurrence of the clause final high tone is compulsory.

Similarly, (19e&f) would be adjudged ungrammatical as questions.

The fact that the clause final high tone morpheme also occurs in focus constructions which are non-interrogative is another empirical fact that dismisses the seeming assumption that it is a question particle. As a matter of fact, none of the constructions in (9) is interrogative because the morpheme that expresses interrogative force is absent in them. Also, theoretically, since we consistently have the question particle *yè* showing up in the polar questions, claiming that the H tone is a question marker would amount to saying the clause is double headed. Such claim violates Extended Endocentricity Principle which states that every phrase is a projection of a single head word category, and every word category projects into a corresponding phrase category. Lastly, while the clause final high tone is absent in wh-questions, *yè* consistently occurs there without any compromise in the interrogative reading of such constructions. This is evident in the well-formedness of examples (20a–f) and the ungrammaticality of (20d&e).

20. (a) Kòfòn Òjó yè wọ?  
 When Ojo Inter cry  
 ‘When did Ojo cry?’

(b) Kone ẹ sẹn?  
 Who Inter run  
 ‘Who ran?’

- (c) Kone ẹ wọn?  
Who Inter laugh  
'Who laughed?'
- (d) \*Kèrè úró ndọ yè bẹrin ín?  
Which type work Inter this Emph  
'Which type of work is this?'
- (e) \*Kàwán Adé yè dà á?  
How-many Ade Inter buy Emph  
'How many did Ade buy?'
- (f) \*Kàwán Adé yè dá?  
How Ade Inter buy-Emph  
'How many did Ade buy?'

### 5. The Syntax of Interrogatives

Assuming Split-CP hypothesis, the general characterization is that interrogatives merge in InterP. Given this, two issues will be addressed in this section: (1) if interrogatives merge in InterP within the left periphery, how come the interrogative head shows up immediately after the subject within TP in the overt syntax given head-complement word order in Ñjò-Kóo? (2) what exactly does the syntactic representation of question constructions look like in Ñjò-Kóo?

On the issue of word order, I propose raising/movement of the DP subject of matrix TP to the specifier position of InterP. The point is that Inter head which serves as the probe has an

edge or a strong [EPP] feature which attracts it as goal to the spec-InterP. This implies that the [interrogative] feature must be checked or valued before spell-out for the derivation to be convergent. This then leads us to the second issue: if the subject of TP raises to Spec-InterP, what is the exact syntax of that construction in Njò-Kóo?

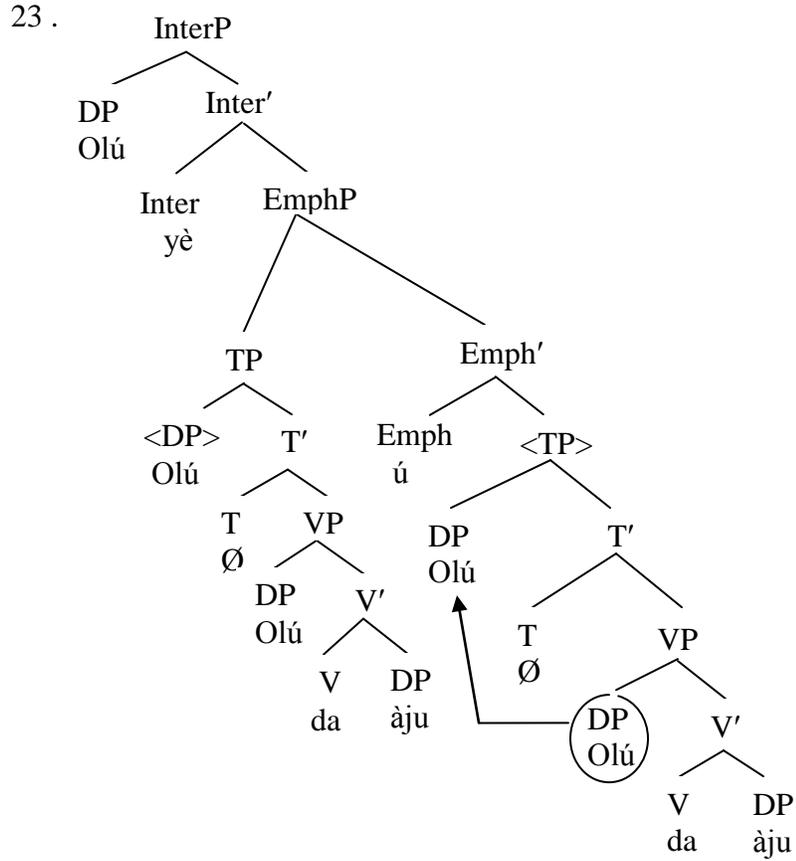
### 5.1. Derivation of Njò-Kóo Polar Questions

Adopting the cartography approach, I propose following Rizzi (1997, 2001) and Aboh (2004) that interrogative force is a specification of the functional head in Inter<sup>0</sup> encoding the feature [Interrogative] that projects between ForceP and FinP, as illustrated in (21).

21. Force...> Inter...> Topic...> Focus...> Finiteness.

I therefore propose that a simple yes-no question is headed by the Inter<sup>0</sup> which is morphologically realized as *yè* in Njò-Kóo. This implies that a yes-no question like (6e) repeated here as (22) should be derived as sketched in (23).

22. Olú yè da àju ú  
 Olu Inter buy yam Emph  
 ‘Did Olu buy yam?’



The syntax of Njò-Kóo polar questions therefore involves two probes, each of which provokes displacement operations. The polar question in (23) is derived thus: first, the verb **da** is

merged with its DP complement **àju** ‘yam’ to satisfy the c-selection requirement of the head while the subject DP **Olú** is second merged in Spec-VP (in line with VP-internal subject hypothesis) to satisfy the EPP demand of the head; while then T head is merged with the VP to project T-bar. At this point, T head becomes the probe which searches its c-command domain for a matching goal to attract to Spec-TP, so as to value the unvalued/uninterpretable feature. The subject DP, **Olú**, being the potential and active goal with an unvalued nominative case, is attracted to spec-TP and the unvalued case feature is valued and deleted. Then the Emph head is externally merged with the TP to meet its c-selection condition. The TP then get pied-piped to Spec-EmphP to fulfill the EPP feature of the Emph head that is morphologically realized as the clause-final high tone morpheme. There is an empirical reason why the pied-piping of the whole TP to spec-EmphP is licensed in this structure. Specifically, if the whole TP is not pied-piped, the correct word-order would not be generated.

The derivation proceeds by externally merging Inter head which is realized as **yè** to EmphP to project Emph-bar. At this stage, the Inter head becomes the probe which searches its c-command domain for an active goal to move to its Spec so as to value the unvalued feature. The only active goal available is the subject DP, **Olú**, being the only constituent licensed at Spec-InterP. The probe has [Inter-EPP] feature which is valued and deleted by moving the goal **Olú** to its specifier position.

## 6. Conclusion

This paper has given a descriptive analysis of the structure and derivation of polar questions in Ñjò-Kóo, using the minimalist framework. The paper challenged the cross-linguistic claim that question particles occur either clause-initially or clause-finally and concluded, given empirical evidence, that polar question markers do not only occur clause-initially or clause-finally but can also be immediately preceded by subject DPs. It also advanced both empirical and theoretical reasons as to why the clause final high-tone that always shows up in Ñjò-kóo polar questions should not be considered a question marking particle.

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