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**Focus Marking in Aghem: Syntax or Semantics?**

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## ABSTRACT

Following up on previous work by Anderson (1979), Watters (1979) and myself (Hyman 1979a,b, 1985), this paper presents an overview and analysis of focus marking in Aghem, a Grassfields Bantu language spoken in Cameroon. It is shown that focus marking pervades virtually every aspect of the grammar. While Aghem has a basic S AUX V O X word order, an XP may be focused by positioning it immediately after the verb, or defocused by placing it between the auxiliary and the verb. As part of a system of “auxiliary focus” (Hyman & Watters 1984), certain tenses condition different allomorphs depending on whether the truth value of a proposition is included within the focus or not. The most unusual property of Aghem, however, concerns the contrast between so-called A- vs. B-forms within the noun phrase, which also bears an important relation to the focus system. I show that A forms are those which allow a null determiner, while B forms are those which do not. Although (semantic) focus is implicated in determining which form of the noun phrase is found in what context, it is really a syntactic generalization having to do with heads and their governees that accounts for the full range of facts.

## 1. Introduction

Even on African standards, Aghem, a Western Grassfields Bantu language of the Ring Subgroup (Hyman 1980, Watters 1989), is particularly rich in focus marking. When Stephen C. Anderson, John Watters and I jointly undertook the study of Aghem in 1978, we were impressed to see how pervasive considerations of focus are throughout the grammar. This can be clearly seen in the publications which resulted: Watters (1979) investigated the relation between different syntactic constructions and focus. He found that the focus position is immediately after the verb (IAV) in Aghem, an SVO language. While there is also a defocused position immediately before the verb (IBV), Watters indicated that the semantic interpretation of sentences with both pre- and postposed arguments or adjuncts is quite intricate. Anderson (1979) demonstrated that verb tense, aspect, mood and polarity may also encode focus, in two senses: First, some verb forms, e.g. main clause affirmative past tenses, are expressed with different morphology, depending on what is in focus. Second, some parts of the verbal paradigm appear to be inherently focused, independent of information structure, e.g. imperative and negative forms. However, quite unusual was part of the story that fell to me (Hyman 1979). Besides verb marking, noun phrases have two different markings which very often correlate with whether an NP is in focus or not. What this meant was that NPs in all positions of all constructions would have to be investigated to see whether they fell into “A form” or “B form”. While my earlier study presented a functional description of the facts, based on work with one speaker, I enlarged the scope of my inquiry in the early 1980s to three speakers, ultimately publishing a short formal account within the government-binding framework (Hyman 1985).

The goals of the present paper are the following. First, I present an outline of the grammatical properties of focus in Aghem. Second, I extend the descriptive coverage of focus marking beyond the above studies. Finally, I again take up the formal/functional dichotomy and examine the extent to which focus marking within the noun phrase is determined by syntactic vs. semantic properties. The paper is organized as follows: §2 and §3 recapitulate the syntactic marking of focus and the morphological marking of focus on the verb auxiliary system, drawing respectively from Watters (1979) and Anderson (1979). §4 then addresses the marking of focus within the noun phrase. §5 presents a brief conclusion.

## 2. Syntactic marking of focus (Watters 1979)

As seen in (1), the unmarked clause structure of Aghem is S AUX V O X, where X stands for additional arguments or adjuncts which may be prepositionally marked:

(1) Unmarked clause structure = S AUX V O X

- a. tí-bvú tì -bìghà mô zì kí -bé ↓né ‘the two dogs ate fufu today’  
 dogs two P<sub>1</sub> eat fufu today
- b. fíl á mô fùo kí -bé â bvú ↓tó á ↓ndúghó ‘the friends gave fufu to  
 friends SM P<sub>1</sub> give fufu to dogs D LOC house the dogs in the house’

There are at least three arguments that establish the immediate-after verb (IAV) position as a focus position. The first is that contrastively focused constituents move to IAV. The sentences in (2) illustrate this process, which Watters terms Adposing:

## (2) ADPOSING: Focus-movement to IAV (= [marked focus])

## a. X → IAV

tí-bvú tì -bìghà mô zì né ↓bé ↓kó 'the two dogs ate fufu TODAY'  
 dogs two P<sub>1</sub> eat today fufu D

## b. S → IAV

à mò zì tí-bvú tì -bìghà bé ↓kó né 'the TWO DOGS ate fufu today'  
 DS P<sub>1</sub> eat dogs two fufu D today

Comparing (2a) to the sentence in (1a) we see that the temporal adverbial *né* 'today' has moved to IAV. In (2b) it is the subject that moves to IAV, leaving behind the dummy subject (DS) *à*.

The second argument that IAV is the focus position is that a WH element also obligatorily undergoes Adposing:

## (3) WH elements must be in IAV position

## a. WH-X → IAV

tí-bvú tì -bìghà mô zì zín bé ↓kó 'when did the two dogs eat fufu?'  
 dogs two P<sub>1</sub> eat when fufu D

## b. WH-S → IAV

à mò zì ndúghó ↓bé ↓kó né à 'who ate fufu today?'  
 DS P<sub>1</sub> eat who fufu D today QM

## c. Multiple-WH: S &gt; O &gt; X

à mò zì ndúghó kwòkò zín 'who ate what when?'  
 DS P<sub>1</sub> eat who what when

(3a) shows the temporal WH element *zín* 'when' in IAV position. Similarly, (3b) shows the subject WH element *ndúghó* 'who' undergoing Adposing, again leaving behind the DS *à*. The two sentences would be ungrammatical if the WH element remained in situ. The sentence in (3c) shows the order in which multiple WH elements co-occur in IAV position.

The third argument that IAV is the focus position is that in the absence of an overt focus within the auxiliary (cf. §3), main clause affirmative (MCA) clauses require the IAV position to be filled. Thus, the intransitive sentence in (4a) and the transitive sentence (with third person inanimate Ø pronominal object) in (4b) are both ungrammatical:

## (4) Main clause affirmatives requiring IAV to be filled

a. \* ò mò bvù cf. ò mò bvù nò 'he fell'  
 SM P<sub>1</sub> fall SM P<sub>1</sub> fall FM

b. \* ò mò zì° cf. ò mò nè nò 'he ate (it)'  
 SM P<sub>1</sub> eat SM P<sub>1</sub> eat FM

c. wìzín wìlà ò mò bvù 'the woman who fell'  
 woman who SM P<sub>1</sub> fall

As seen in the sentences to the right, the sentences are rendered grammatical when the general focus marker (FM) *nò* appears in IAV. The reason (4a,b) are ungrammatical is that a main clause affirmative requires that something be marked as focused, in these cases requiring that something

appear in IAV. As they are not subject to this focus requirement, (4c) shows that relative and other non-main clauses do not require that the IAV position be filled.

Besides IAV, there is also an immediate-before-verb (IBV) position which Watters (1979) identifies as the “marked presupposition”. As seen in (5), one or more postverbal constituents can be moved to IBV by a process which Watters terms Preposing:

(5) PREPOSING to immediate-before-verb (IBV) position

a. O → IBV

tí-bvú tì -bìghà mô bé <sup>↓</sup>kí zí né ‘the two dogs ate fufu TODAY’  
 dogs two P<sub>1</sub> fufu D eat today (= (2a))

b. X → IBV

tí-bvú tì -bìghà mô né zí kí -bé ‘the two dogs ate FUFU today’  
 dogs two P<sub>1</sub> today eat fufu

c. WH → \*IBV

\* tí-bvú tì -bìghà mô zín zí kí -bé ‘when did the two dogs eat fufu?’  
 dogs two P<sub>1</sub> when eat fufu

d. S → \*IBV

\* à mò bvú <sup>↓</sup>tó tí-bìghà zí kí -bé <sup>↓</sup>né ‘the two dogs ate fufu today’  
 DS P<sub>1</sub> dogs D two eat fufu D

As seen, by preposing other elements, the one constituent which remains in the IAV is now contrastively focused. While there are other word order changes that potentially interact with focus, I shall limit the discussion to the IAV and IBV positions and now consider focus marking within the verbal auxiliary.

### 3. Morphological marking of focus on the verbal auxiliary (Anderson 1979)

In Aghem focus marking may occur on the tense, aspect, mood and polarity, or these features may influence focus marking elsewhere in the clause. Hyman & Watters (1984) use the cover term “auxiliary focus” for such phenomena which are widespread in African languages (cf. Güldeman’s 2003 “predication focus”). Hyman & Watters recognized two types of auxiliary focus, EXTRINSIC and INTRINSIC, both of which occur in Aghem.

Auxiliary focus is extrinsic when contrastive [+focus] is morphologically marked. As summarized in (6), Aghem distinguishes extrinsic focus on a main clause completive aspect non-future auxiliary:

(6) Main clause completive aspect, non-future tense markers

		[-focus]	[+focus]
Present perfect	(P <sub>0</sub> )	∅	ń̀
Today past	(P <sub>1</sub> )	mò	mâa
General past	(P <sub>2</sub> )	̀mó	má <sup>↓</sup> á

As seen in (7), the choice of extrinsic [±focus] has an effect on the semantics.

(7) AUX [+focus] indicates that truth value is included within the focus

- a. tí-bvú tì -bìghà m̂ zì kí -bé ‘the two dogs ate fufu’  
 dogs two P<sub>1</sub> eat fufu
- b. tí-bvú tì -bìghà mâa zì bé ↓kó ‘the two dogs ATE/DID EAT fufu’  
 dogs two P<sub>1</sub>-FOC eat fufu D
- c. tí-bvú tì -bìghà m̂ zì nó ↓bé ↓kó ‘he ATE fufu today’  
 dogs two P<sub>1</sub> eat FM fufu D

In (7a), where the P<sub>1</sub> [-focus] marker *m̂* occurs, the semantic focus may be on the IAV (*kí-bé* ‘fufu’), the verb phrase, or the entire proposition (= “even focus”). It could be an answer to a question such as ‘what did the two dogs eat?’, ‘what did the two dogs do?’ or ‘what happened?’ When a [+focus] auxiliary is present, e.g. *mâa* in (7b), the truth value of the proposition is necessarily included within the focus, as in (7b). This sentence may occur as a report out of the blue (“Hey, guess what? The two dogs ate fufu!”), where no truth value is presupposed, or it could mean ‘the two dogs did eat fufu’ where contrastive, possibly counterassertive, focus is placed on the truth value (e.g. contradicting someone’s assertion that the two dogs had not eaten fufu). The sentence (7c) shows that focus on the lexical meaning of the verb is obtained by placing the focus marker *nó* in IAV position.

Additional evidence that *mâa* does indeed mark focus is seen from the fact that the IAV is not required to be filled in an utterance containing a [+focus] auxiliary. This is seen in the sentences in (8) which should be compared with those in (4).

(8) Additional evidence that AUX = [+focus]: IAV may be Ø in MCA

- a. ò máà bvù ‘he did fall’ cf. \* ò m̂ bvù = (4a)  
 SM P<sub>1</sub>-FOC fall
- b. ò máà zì° ‘he did eat (it)’ cf. \* ò m̂ zì° = (4b)  
 SM P<sub>1</sub>-FOC eat

It will thus come as no surprise that *mâa* may not co-occur with a WH element or appear in “backgrounded” clauses such as relative, temporal and if-clauses. As also expected, [+focus] auxiliaries not only occur with unmarked S AUX V O X word order, as in (9a), but also with preposing of elements into IBV position, as in (9b):

(9) AUX [+focus] naturally occurs with preposing of O and X

- a. tí-bvú tì -bìghà mâa zì bé ↓kó né ‘the two dogs ate/did eat fufu today’  
 dogs two P<sub>1</sub>-FOC eat fufu D today
- b. tí-bvú tì -bìghà mâa bé ↓kó né zí ‘the two dogs DID (TOO) eat fufu today’  
 dogs two P<sub>1</sub>-FOC fufu D today eat

In the second type of auxiliary focus, intrinsic, an inflectional feature which is not necessarily semantically focused nevertheless has an effect on focus marking within the clause. As seen in the sentences in (10), negatives and imperatives do not require the IAV to be filled:

(10) Negatives and imperatives have intrinsic focus [+F] independent of semantic focus

- a. ò kà m̂ bvù ‘he did not fall’ c. zîà ‘eat (it)!’  
 SM NEG P<sub>1</sub> fall

- b. ò kà m̀ zì° 'he did not eat (it)'  
SM NEG P<sub>1</sub> eat

As Hyman & Watters (1984) document, negatives and imperatives often act as if they were “inherently focused” (cf. Marchese 1983). Like their extrinsic counterparts, they satisfy focus marking in the utterance thereby denecessitating an IAV element. As we shall see in §4, they also condition “out of focus” marking within the noun phrase.

#### 4. Marking of focus in the noun phrase (Hyman 1979a, 1985)

While other languages have both syntactic marking and auxiliary marking of focus, perhaps the originality of Aghem and closely related languages such as Weh and Isu (Kießling, this volume) lies in how focus affects marking within the noun phrase. As can already be seen in the sentences cited above, noun phrases potentially have different realizations which interact with the focus system. The object noun ‘fufu’ has thus appeared as either *kí-bé* “A form” or *bé kó* “B form”. As seen in (11a), the A form is used when an object noun appears in IAV position in the MCA:

(11) Correlating with focus in above examples is the form of an object noun phrase

- a. ò m̀ zì kí-bé ↓né 'he ate fufu today' (\*bé ↓kó)  
SM P<sub>1</sub> eat fufu today
- b. ò m̀ zì né ↓bé ↓kó 'he ate fufu TODAY' (\*kí-bé)  
SM P<sub>1</sub> eat today fufu D
- c. ò m̀ bé ↓kí zí né 'he ate fufu TODAY' (IBV position)  
SM P<sub>1</sub> fufu D eat today
- d. ò mâa zì bé ↓kó né 'he did eat fufu today' (after AUX [+focus])  
SM P<sub>1</sub>-FOC eat fufu D today
- e. wízín wílà ò m̀ zì bé ↓kó né 'the woman who (in non-main clause)  
woman who SM P<sub>1</sub> eat fufu today ate fufu today'
- f. ò kà m̀ zí bé ↓kó 'he did not eat fufu' (after negative verb)  
SM NEG P<sub>1</sub> eat fufu D
- g. zí bé ↓kó (nô) 'eat fufu/FUFU!' (after imperative verb)  
eat fufu D FM

By contrast, in (11b), we see that when ‘fufu’ appears after the IAV it takes the B form. It also takes the B form in IBV position in (11c), where a preverbal allomorphy rule requires the form *kí* instead of *kó*. (11d) shows that ‘fufu’ also appears in B form after a [+focus] auxiliary, even though it superficially appears to be in IAV position. The B form is similarly required in (11e) where ‘fufu’ occurs in a relative clause. The sentences in (11b-e) suggest that the B form will be used when an object NP is “out of focus”, i.e. not in the IAV in a MCA. Sentences (11f,g) show that the B form is also required after an intrinsic [+F] auxiliary. In discussing the sentences in (10) I pointed out that negatives and imperatives act as if they are inherently focused in that the IAV need not be filled. That the B form must be used reinforces this notion. Thus, (11g) would not only be used in response to the question ‘what should I do with the fufu?’, where ‘fufu’ would be presupposed, but also in response to questions like ‘what should I eat?’, ‘what should I do?’, or even ‘should I eat rice?’ where counterassertive focus on ‘fufu’ can be reinforced by the

FM /nò/, as indicated. In none of the sentences in (11) can an A form be substituted for a B form, or vice-versa.

In order to understand the morphological basis of the distinction, (12) shows the A and B forms for all of the noun classes in Aghem:

(12) Aghem noun classes and noun forms found in A vs. B contexts (gh = [ɣ])

	<b>A-form</b>	<b>B-form</b>	<b>B-form</b>	
<i>class</i>	<i>prefix-stem</i>	<i>stem =enclitic</i>	<i>stem proclitic=</i>	
1	( ) wé	wé	wé	‘child’
2	á- wé	wé =ghó	wé á=	‘children’
3	ó- kɔʔ	kɔʔ =wó	kɔʔ ↓ó=	‘ladder’
4	é- kɔʔ	kɔʔ =zó	kɔʔ ↓é=	‘ladders’
5	é- ghóm	ghóm =zó	ghóm ↓é=	‘egg’
6	á- ghóm	ghóm =ghó	ghóm ↓á=	‘eggs’
7	kí- fú	fú =kó	fú kí=	‘rat’
8	ó- fú	fú =wó	fú ó=	‘rats’
9	( ) bvú	bvú	bvú	‘dog’
13	tí- bvú	bvú =tó	bvú ↓tí=	‘dogs’
19	fí- nwín	nwín =fó	nwín ↓fí=	‘bird’
6a	ń nwín	nwín =mò	nwín ñ=	‘birds’

As seen, nouns in the A form are marked by a noun class prefix + stem structure, except for classes 1 and 9, which do not have a prefix and which do not show an A vs. B distinction. Nouns in the B form do not have a prefix, but rather are followed by a clitic, which has been glossed as D (for determiner; cf. below). If this D is realized as an enclitic it will end in the vowel [ɔ] (from historical \*[ʌ]). If, however, the D procliticizing to the following word, e.g. to a verb in IBV, the forms are segmentally identical to the noun class prefixes (as well as subject and genitive markers).

The fact that B forms lack a noun class prefix follows from the general process of prefix deletion in Aghem. As seen in (13), prefix deletion will occur whenever a noun is followed by any agreeing element except for a numeral or quantifier:

(13) Prefix-deletion before an agreeing element (other than a numeral/quantifier)

a.	/ _ POSS	bvú ↓tánjá	‘my dogs’	nwín ↓fánjá	‘my bird’
	/ _ DEM	bvú ↓tín	‘these dogs’	nwín ↓fín	‘this bird’
	/ _ ADJ	bvú tì-dúú tó	‘big dogs’	nwín fì-dúú fó	‘big bird’
	/ _ GEN	bvú ↓tí ↓wé	‘child’s dogs’	nwín ↓fí ↓wé	‘child’s bird’
	/ _ SM	bvú ↓tí mâa bvù	‘the dogs fell’	nwín ↓fí mâa bvù	‘the bird fell’
b.	/ _ NUM	tí-bvú tì-bìghà	‘two dogs’	fínwín fì-mòʔ	‘one bird’
	/ _ Q	tí-bvú tì-dzìm	‘all the dogs’	fínwín fì-dzìm	‘the whole bird’
c.	/ _ D	bvú ↓tó	‘Dogs!’ (voc.)	nwín ↓fó	‘Bird!’ (voc.)
		/ tì-bvú` tó/		/ fí- nwín` fó/	

The examples in (13a) show the deletion of the class 13 prefix *tí-* of *tí-bvú* ‘dogs’ and the class 19 prefix *fí-* of *fí-nwín* ‘bird’ before a possessive pronoun, a demonstrative, an adjective, a genitive noun, and a subject marker. There is no prefix deletion before a numeral or quantifier in

(13b). The examples in (13c) show that B forms can be used as vocatives in isolation. Thus, in B-forms, prefix-deletion occurs before D exactly as it does before the agreeing elements in (13a).

In Hyman (1979a) I argued that D is a determiner, since it appears in the same “slot” as demonstratives (which may also pre-empt it):

(14) D = a determiner occurring in the same “slot” as demonstratives

		<b>N</b>	<b>Poss</b>	<b>Adj</b>	<b>Det</b>	<b>Num</b>	
a.	ò mâa kòʔ SM P <sub>1</sub> -FOC see	bvú dogs	↓tánjá my	tî-dú↓ú big	tó D	tí-bìghà two	‘he saw my two big dogs’
b.	ò mâa kòʔ SM P <sub>1</sub> -FOC see	bvú dogs	↓tánjá my	tî-dú↓ú big	tín DEM	tî-bìghà two	‘he saw these two big dogs of mine’

My approach at that time was to account for D in semantic/functionalist terms: “[D] is a demonstrative whose meaning is ‘out of focus.’ And the noun phrase within which it occurs is considered out of focus by Aghem speakers in the environments outlined in preceding sections....” (Hyman 1979a:68). I presented comparative evidence to show that D derives historically from a ‘near hearer’ demonstrative. After completing the 1979 study I continued to explore the grammatical properties of D, ultimately attempting an account of D in syntactic/formal terms: “I propose that the D node is obligatory in Aghem, either being filled lexically by one of the three demonstratives or remaining as an empty element  $\underline{e}D$ . If the  $\underline{e}D$  is ‘syntactically well-formed’ it surfaces as  $\emptyset$ ; if it is not well-formed, it must be spelled out post-lexically via the -*ó*” (Hyman 1985:151). In this account the distinction between A vs. B forms reduces to whether a noun phrase can (=A) vs. cannot (=B) occur without an overt determiner.

Despite its relationship to focus, I maintain the view that the distribution properties of D are best accounted for in syntactic rather than semantic terms. An A form is one where an empty determiner ( $\underline{e}D$ ) is well-formed, or licensed by well-formedness conditions. These conditions are of three types: (i) internal conditions on the NP; (ii) external conditions on the NP vis-à-vis its governing head; (iii) external conditions on the NP or its governing head with respect to modality and clause-type. I now take up these three types of conditions in turn.

In order to appreciate the NP-internal conditions it is necessary to understand the structure of the NP. The two possible linear orders of noun + modifiers are shown in (15).

(15) Linear order within the noun phrase, e.g. ‘these two big dogs of the child’:

a.	N + POSS + ADJ + DET + NUM	b.	N + ADJ + POSS + DET + NUM
	bvú ↓tí ↓wé tî-dú↓ú tîn tî-bìghà dogs of child big these two		bvú tî-dú↓ú tí ↓wé tîn tî-bìghà dogs big of child these two

As illustrated, a genitive noun (or possessive pronoun) and adjective can occur in either order, followed by the fixed order determiner + numeral. Although only the demonstrative ‘this/these’ is illustrated in (16a), there can be only one demonstrative or numeral in a noun phrase with multiple genitive embeddings:



On the other hand, whenever an adjective is present,  $\underline{e}D$  is not well-formed:

(19) Whenever N (of N)\* is interrupted by an adjective,  $\underline{e}D$  is not well-formed

- |    |     |                       |                      |      |    |                  |                      |                      |                      |                |                |
|----|-----|-----------------------|----------------------|------|----|------------------|----------------------|----------------------|----------------------|----------------|----------------|
| a. | fú  | kì-bá <sup>↓</sup> ηá | kó                   | (*∅) | c. | fú               | kí                   | tí- <sup>↓</sup> bvú | tì-dú <sup>↓</sup> ú | tó             |                |
|    | rat | red                   | D                    |      |    | rat              | of                   | dogs <sub>i</sub>    | big <sub>i</sub>     | D              |                |
| b. | fú  | kì-bá <sup>↓</sup> ηá | kì-dú <sup>↓</sup> ú | kó   | d. | fú               | kì-dú <sup>↓</sup> ú | kí                   | tí- <sup>↓</sup> bvú | tó             | (*kó)          |
|    | rat | red                   | big                  | D    |    | rat <sub>i</sub> | big <sub>i</sub>     | of                   | dogs <sub>j</sub>    | D <sub>j</sub> | D <sub>i</sub> |

(19a,b) show a single noun with one vs. two adjectives and obligatory spell-out of D. (19c,d) show an adjective appearing after the first vs. second noun of a genitive construction. As seen, D must be spelled out in both cases. Since \*kó is ungrammatical in (19d), D must be spelled out in agreement with the closest noun. The one exception to this occurs when the closest noun belongs to class 1 or 9, which do not have an overt D spell-out. In this case D may either be empty or may agree with the higher noun: *fú kì-dú<sup>↓</sup>ú kí <sup>↓</sup>wé* (.) or *fú kì-dú<sup>↓</sup>ú kí <sup>↓</sup>wé kó* ‘big rat of child’.

A second condition on  $\underline{e}D$  is that there must not be an empty head within the noun phrase:

(20) When the head noun is empty,  $\underline{e}D$  is not well-formed

- |    |     |                   |                 |           |                    |       |                    |                 |        |               |
|----|-----|-------------------|-----------------|-----------|--------------------|-------|--------------------|-----------------|--------|---------------|
| a. | bvú | <sup>↓</sup> tájá | (.)             | ‘my dogs’ | vs.                | (tí-) | tá <sup>↓</sup> ηá | tó              | ‘mine’ |               |
|    | dog | my                | D               |           |                    | of    | my                 | D               |        |               |
| b. | bvú | <sup>↓</sup> tí   | <sup>↓</sup> wé | (.)       | ‘the child’s dogs’ | vs.   | tí                 | <sup>↓</sup> wé | tó     | ‘the child’s’ |
|    | dog | of                | child           | D         |                    | of    | child              | D               |        |               |

As seen, a determiner is required in the forms on the right even though there is no adjective.

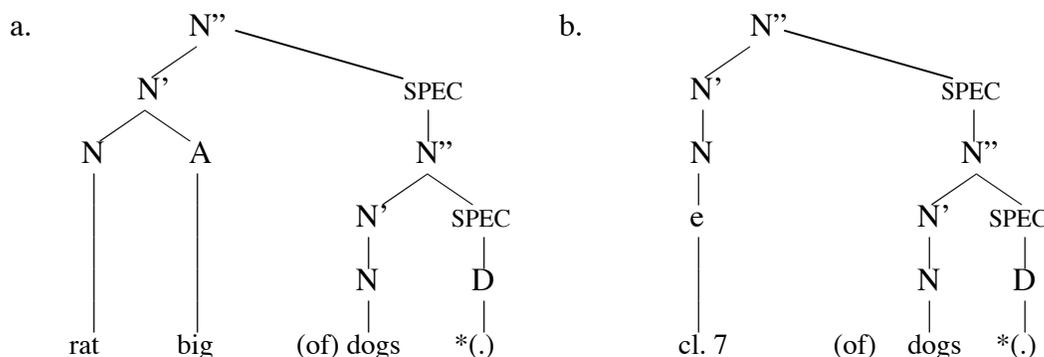
The two NP-internal conditions on  $\underline{e}D$  are restated in (21).

(21) Internal conditions on  $\underline{e}D$  within the NP

- $\underline{e}D$  must not be separated from a N or sequence of N by ADJ
- the head N must not be empty

In other words,  $\underline{e}D$  is internally well-formed if it is preceded only by a lexical noun/pronoun or a string of lexical nouns (the genitive agreement marker ‘of’ being irrelevant). In government-binding terms,  $\underline{e}D$  must be properly governed—here, by every N up to the highest node of the NP (assuming for expository purposes the phrase structure rules in (17a)). The phrase structures of the forms in the right in (20) are reproduced from Hyman (1985) in (22).

## (22) Adjacency or c-command?



The  $\underline{e}D$  is not well-formed in (22a) because the chain of lexical nouns ('rat', 'dogs') is interrupted by the adjective 'big'. It could be argued either that proper government depends on adjacency ('dogs' is not adjacent to 'rat') or on c-command: the first branching node dominating the governor must dominate  $\underline{e}D$  (the N' above 'rat' does not dominate 'dogs'). In (22b) it is the non-lexical governor itself which is responsible for the ill-formedness of  $\underline{e}D$ .

That the notion "lexical governor" may be at play is seen when we consider the prepositional phrases in (23).

(23) Non-lexical governors  $\hat{a}$  'to/for' and  $\hat{a}$  'with, and' require B-form ( $\ast\underline{e}D$ )

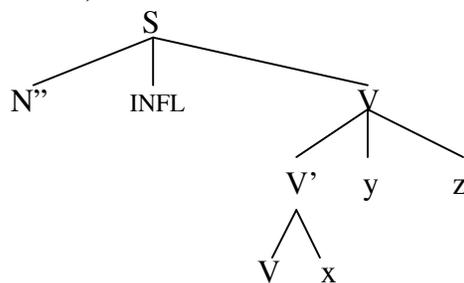
- a.  $\hat{o}$   $m\hat{o}$   $f\hat{u}$   $k\hat{i}$ - $b\hat{e}$   $\hat{a}$   $bv\hat{u}$   $\downarrow t\hat{o}$  'he gave fufu to the dogs'  
 SM  $P_1$  give fufu to dogs D
- b.  $\hat{o}$   $m\hat{o}$   $k\hat{o}$ ?  $t\hat{i}$ - $dz\hat{i}$   $\hat{a}$   $bv\hat{u}$   $\downarrow t\hat{o}$  'he saw goats with/and dogs'  
 SM  $P_1$  see goats with dogs D

Whenever a well-formed NP occurs within a PP headed by  $\hat{a}$  'to/for' or  $\hat{a}$  'with, and', a determiner is required. This means that these (non-lexical) prepositions are not proper governors. On the other hand, as seen in (24), the instrumental/locative preposition  $\acute{a}$  ( $\sim \acute{a}n$ ) acts as if it is a lexical head:

(24) Instrumental/locative  $\acute{a}$  ( $\sim \acute{a}n$ ) acts as if = lexical head

- a.  $\acute{a}$   $f\hat{i}$ - $\downarrow n\hat{i}$  (.) 'with a knife'  $\ast \acute{a}$   $\downarrow n\hat{i}$   $f\hat{o}$
- b.  $\acute{a}$   $f\hat{i}$ - $gh\hat{a}m$  (.) 'on the mat'  $\ast \acute{a}$   $gh\hat{a}m$   $f\hat{o}$

What is attractive about the above structural account is that the same notion of proper government naturally extends to what was said about the IAV and focus marking: For  $\underline{e}D$  to be well-formed, an object NP must also be properly governed. This is only possible if the object NP appears in IAV, indicated as x in (25).

(25) Structure of S ( $\underline{x}$  = IAV)

If another constituent appears in IAV, thus intervening between the governing verb and the object NP, the latter will require an overt determiner.

Recall from (18) that  $eD$  will be well-formed (properly governed) if preceded either by a single noun or pronoun or by a genitive sequence. (26a) shows that  $eD$  is similarly well-formed in an IAV object NP that follows an uninterrupted verb sequence:

## (26) If uninterrupted, verbs in series properly govern the IAV

- a. ò m̀ ñìŋ̀ bùò zì kí-bé (\*Ø 'it') 'he ran in this direction and ate fufu'  
 SM P<sub>1</sub> run come eat fufu
- b. à m̀ ñìŋ̀ bùò zì ndúghó bé ↓kó 'who ran in this direction and ate fufu?'  
 DS P<sub>1</sub> run come eat who fufu D
- c. \*à m̀ ñìŋ̀ ndúghó bùò zì bé ↓kó
- d. \*à m̀ ñìŋ̀ bùò ndúghó zí bé ↓kó
- e. ò kà m̀ ñìŋ̀ bùò zì bé ↓kó 'he didn't run in this direction and eat fufu'  
 SM NEG P<sub>1</sub> run come eat fufu D

As indicated, the IAV cannot be  $\emptyset$  in (26a). If no object NP were expressed, it would be necessary to add the FM  $nò$ , and the sentence would mean 'he ran in this direction and ate it'. The WH element  $ndúghó$  'who' in (26b) confirms that the IAV position follows the three-verb sequence (cf. the ungrammatical placements of  $ndúghó$  in (26c,d)). Finally, it can be noted in (26e) that negation again requires an overt determiner on the object NP.

While an uninterrupted verb sequence appears to function as one complex governor, a different situation obtains in (27).

## (27) If interrupted, each V+NP functions separately

- a. ò m̀ ñì k̀-à zí kí-bé 'he took a spoon and ate fufu'  
 SM P<sub>1</sub> take spoon eat fufu
- b. à m̀ ñì ndúghó tà k̀o zí kí-bé 'who took a spoon and ate fufu?'  
 DS P<sub>1</sub> take who spoon D eat fufu
- c. \*à m̀ ñì k̀-à zí ndúghó bé ↓kó  
 DS P<sub>1</sub> take spoon eat who fufu D
- d. à kà m̀ ñì tà k̀o zí kí-bé 'he didn't take a spoon and eat fufu'  
 DS NEG P<sub>1</sub> take spoon D eat fufu

- e. à m̀d̀ ǹi z̀í ndúghó bé ̀k̀s                    ‘who took (it) and ate fufu?’  
 DS P<sub>1</sub> take eat who fufu D
- f. \*à m̀d̀ ǹi ndúghó z̀í kí-bé  
 DS P<sub>1</sub> take who eat fufu

(27a) consists of two V + NP sequences representing a same-subject serial construction. As seen in (27b), the WH element goes after the first verb, and not after the second (cf. (27c)). The second verb of the V + NP sequence thus appears to independently license  $\underline{e}D$  on the object. This is seen in (27d) where the negative marker *kà* affects only *tà k̀d̀* ‘spoon + D’, the object of the first verb *ǹi* ‘take’, not *kí-bé* ‘fufu’, the object of the second verb *z̀í* ‘eat’. The placement of *ndúghó* ‘who’ in (27e) shows that when the object of ‘take’ is null (= third person singular inanimate object), *ǹi* + *z̀í* ‘take + eat’ function as a single complex verb by virtue of being uninterrupted. It is not possible to place *ndúghó* between the two verbs, as in (27f).

We are now left with the question of how to incorporate “auxiliary focus” into the analysis. Recall that  $\underline{e}D$  is not well-formed when the auxiliary is [+focus], e.g. *m̀âa* ‘P1-foc’ or [+F], e.g. negative or imperative. There are at least two analytic possibilities. First, [+focus] and/or [+F] auxiliaries may require that the IAV position remain empty, i.e. [ [ V  $\underline{e}$  ]<sub>V</sub> NP ... ]<sub>V</sub>. In this case the verb would fail to properly govern the object NP. Second, [+focus] and/or [+F] auxiliaries may trigger the attraction of the verb to INFL, leaving the V node empty, i.e. [  $\underline{e}$  NP ]<sub>V</sub>. In this case the non-lexical empty head [  $\underline{e}$  ]<sub>V</sub> is not a proper governor.

It is possible that the first solution is correct for [+focus] and the second correct for [+F] auxiliaries. Watters (1979) notes the following difference between the two in examples such as (28).

(28) Different behavior of [+focus] and [+F] AUX with respect to IAV (Watters 1979)

- a. \* à m̀âa bv̀ù ndúghó                    ‘who did fall?’  
 DS P<sub>1</sub>-FOC fall who
- b. \* à m̀âa bv̀ù bv̀ú ̀t̀s    ‘THE DOGS did fall’  
 DS P<sub>1</sub>-FOC fall dogs D
- c. à k̀à m̀d̀ bv̀ù ndúghó                    ‘who didn’t fall?’  
 DS NEG P<sub>1</sub> fall who
- d. à k̀à m̀d̀ bv̀ù bv̀ú ̀t̀s                    ‘THE DOGS didn’t fall’  
 DS NEG P<sub>1</sub> fall dogs D

(28a) shows that a [+focus] auxiliary cannot co-occur with a WH element, nor is it possible for the subject to move to the IAV, as shown in (28b). As seen in (28c,d), however, both a WH The facts in (28a,b) suggest that a [+focus] auxiliary requires that the IAV be empty. The properties of [+F] are, however, quite different, perhaps suggesting an analysis along the lines of the second solution above (cf. Hyman 1985).

The above facts highlight the fact that there is an imperfect relation of focus marking to semantic focus. This is something I have pointed out in previous work: “There are unmistakable [sic] correlations such that focus may be associated with a syntactic position (or construction), a morphological spell-out, or a phonological process. In all cases that I know, however, the construction, morphological exponent or phonological process may also characterize elements

not semantically in focus; or they may fail to characterize constituents which clearly are focused. Perhaps this is true in all languages that mark focus formally. To account for this imperfect alignment of semantic focus and linguistic form, it is thus necessary to evoke the Grammar as a mediator” (Hyman 1999:152). The same kind of imperfect overlap of [+focus] and [+F] has been demonstrated in other African languages as well (Hyman & Watters 1984). As summarized in (29), the relation of A- and B-forms, and the special status of the IAV are reminiscent of comparable oppositions in Narrow Bantu:

(29) Relation of A- and B-forms to comparable oppositions in Narrow Bantu, elsewhere

Aghem verb + A-form (kí-bé)	Aghem verb + B-form (bé <sup>↓</sup> kó)
“close context”	“open context”
“strong link”	“weak link”
“conjoint”	“disjoint”
“post-verb focus”	“verb focused”

In Narrow Bantu languages such as Bemba, Rundi, Tonga, Haya, Luganda, Tswana etc. the difference between “conjoint” and “disjoint” verb + XP combinations can be expressed either through allomorphy (as in Aghem) or through tone (cf. Sharman 1955, Meeussen 1959, 1963, Carter 1962, Givón 1971, Hyman & Watters 1984, Creissels 1996, Hyman 1999, Güldemann 2003, etc. ).

Although quite subtle, tone is potentially implicated in A- vs. B-marking in Aghem as well. In (30a) we see that the object nouns / + wù/ ‘person’ (class 1) and / ` + bvú ` / ‘dog’ (class 9) directly follow the L tone verb kò? ‘see’ in the non-focus today past (P<sub>1</sub>). (Class 1 and 9 nouns are marked by a floating L prefix.)

(30) A floating H tone precedes O nouns in B contexts (seen when the noun begins with L)

a.	ò m̀ kò? wù	‘he saw a person’	ò m̀ kò? nò	‘he saw (it)’
	ò m̀ kò? bvú	‘he saw a dog’	SM P <sub>1</sub> see FM	
	SM P <sub>1</sub> see person/dog / `-bvú ` /		(*ò m̀ kò? )	
b.	ò mâa kò? wù	‘he did see a person’	ò mâa kò?	
	ò mâa kò? <sup>↓</sup> bvú	‘he did see a dog’	SM P <sub>1</sub> -FOC see	
	SM P <sub>1</sub> -FOC see person/dog		‘he did see (it)’	
c.	ò kà m̀ kò? wù	‘he didn’t see a person’	ò kà m̀ kò?	
	ò kà m̀ kò? <sup>↓</sup> bvú	‘he didn’t see a dog’	SM NEG P <sub>1</sub> see	
	SM NEG P <sub>1</sub> see person/dog		‘he didn’t see (it)’	

In (30b) we see that the same verb has a LH rising tone in the corresponding [+focus] P<sub>1</sub> marked by *mâa*. Similarly, the verb has a rising tone in (30c) in the corresponding [+F] negative. It thus appears that a floating H tone occurs before class 1 and 9 nouns in IAV position. (The floating H may also exist with other noun classes, but is absorbed into their underlying /H/ tone prefix.) The sentences in (31a,b) show that the floating H is also present before a noun in post-IAV position:

(31) The floating H also occurs before a post-IAV (but not IBV) noun

a.	à m̀ kò? wǔ	n̄òm	‘a PERSON saw the animal’
	DS P <sub>1</sub> see person	animal	

- b. à kà m̀d̥ k̥ʒ̥? w̥ǔ ñ̀d̥m 'a PERSON didn't see the animal'  
 DS NEG P<sub>1</sub> see person animal
- c. ò kà m̀d̥ w̥ù k̥ô? 'he didn't SEE a person'  
 SM NEG P<sub>1</sub> person see

It might appear that this floating H is a preposition or case marker and that B forms are really prepositional phrases or obliques (cf. *à* 'to/for' and *à* 'with, and', which also require the B form.) However, as seen in (31c), this H is not found in IBV position (which also requires B form). What this means is that we not only have to track NPs throughout the grammar for A vs. B form (i.e. determine whether a non-null DET is required), but also for the H- vs. Ø case (prepositional?) marking of B forms.

To conclude this section, I now expand the coverage to consider dependent clauses and subject NPs. The above examples have generally involved main clauses. In (32a-c) we see that even if an object NP immediately follows the verb, *e*D is ill-formed in backgrounded clauses:

(32) *e*D is ill-formed on post-verbal NP in backgrounded clauses

- a. bvú ↓tí á tí m̀d̥ z̥í b̥é ↓k̥ó 'the dogs that ate the fufu'  
 dogs DEM REL SM P<sub>1</sub> eat fufu D
- b. búghó bvú ↓tí m̀d̥ z̥í b̥é ↓k̥ó 'if the dogs ate the fufu'  
 if dogs SM/D P<sub>1</sub> eat fufu D
- c. ghí↓á bvú ↓tí m̀d̥ z̥í b̥é ↓k̥ó 'as the dogs ate the fufu'  
 as dogs SM/D P<sub>1</sub> eat fufu D
- d. b̥é ↓k̥í á à m̀d̥ z̥í bvú ↓t̥ó 'the fufu that THE DOGS ate'  
 fufu DEM REL DS P<sub>1</sub> eat dogs D

This is true of relative clauses, if-clauses, and temporal clauses. In addition, if the subject is adposed in a backgrounded clause, it too will require an overt determiner, as in (32d). Thus, in addition to the NP-internal conditions and the governor+NP conditions, there are clause-dependent conditions as well: *e*D is potentially licensed on an IAV NP only in a MCA.

Up to now I have not said anything about the form of subject NPs which remain in situ. In a sentence such as (33a), one cannot unambiguously determine whether the subject is in A or B form.

(33) Subject Det must be spelled out when adjacent

- a. bvú ↓tí m̀d̥ z̥ì k̥í-b̥é 'the dogs ate the fufu'  
 dogs SM/D P<sub>1</sub> eat fufu
- b. \*tí-bvú (.) m̀d̥ z̥ì k̥í-b̥é 'the dogs ate the fufu'  
 dogs D P<sub>1</sub> eat fufu
- c. bvú ↓t̥ín (\*tí) m̀d̥ z̥ì k̥í-b̥é 'these dogs ate the fufu'  
 dogs DEM SM/D P<sub>1</sub> eat fufu

This is because subject-verb agreement is identical to the proclitic variant of the default determiner D, as was seen in (12). As I argued in Hyman (1979a), the SM and D are underlying the same entity occurring under DET: In class 13, *tí* differs from *t̥ó* only in that it is procliticized to the following verb rather than being encliticized to the preceding word. What I have called the

subject marker (SM) in Aghem originates in the DET position of the subject noun phrase. When DET immediately precedes the auxiliary or main verb, it cannot be null, as in (33b). The D/SM may also not cooccur with a demonstrative, as seen in (33c).

Despite the identity of D and the SM, it is possible to test whether  $\underline{e}D$  is well-formed in subject position. In the sentence in (34a), a numeral occurs after  $\underline{e}D$ , as we expect from either set of phrase structure rules in (17):

(34) Subject  $\underline{e}D$  is well-formed in main clauses

- a. tí-bvú (.) ò-bìghà mō zì kí-bé ‘the two dogs ate the fufu’  
 dogs D two P<sub>1</sub> eat fufu
- b. \*bvú ↓tó tí-bìghà mō zì kí-bé ‘the two dogs ate the fufu’  
 dogs D two P<sub>1</sub> eat fufu
- b. tí-bvú (.) ò-bìghà kà mō zì bé ↓kó ‘the two dogs didn’t eat the fufu’  
 dogs D two NEG P<sub>1</sub> eat fufu D

Since DET does not occur before the auxiliary, if  $\underline{e}D$  were not well-formed, DET would have had to be spelled out as  $\downarrow tó$ , as in (34b). As seen, this sentence is ungrammatical. (34c) show that  $\underline{e}D$  is also well-formed when the main clause is negative.

In all of the above sentences the judgments are robust: an A form cannot substitute for a B form, and vice-versa. There are two cases where there is variation. The first concerns the subject of a backgrounded clause, which has been recorded in both forms, as in (35a,b).

(35) The subject of background clauses is the first of two A-/B-variable positions

- a. bé ↓kí á tí-bvú (.) ò-bìghà mō zì ‘the fufu that the two dogs ate’  
 fufu DEM REL dogs D two P<sub>1</sub> eat
- b. bé ↓kí á bvú ↓tó tí-bìghà mō zì ‘the fufu that the two dogs ate’  
 fufu DEM REL dogs D two P<sub>1</sub> eat

The same variation is found in condition clauses headed by *búghó* ‘if’ and in temporal clauses, e.g. *ghíá* ‘as, when’. While my impression is that speakers more often preferred *bvú ↓tó*, for the same sentence a speaker might on one occasion state that *tí-bvú* is unacceptable, but on another occasion (sometimes a page later in my notes) insist that *bvú ↓tó* is unacceptable.

Perhaps related to the above is the variation that occurs on the subject NP of a change-of-subject consecutive.

(36) Some variation also detected with respect to change-of-subject consecutives

- a. Éná? mō ghìjō Kóm vì mō nám bé ↓kó, bvú ↓tó tí-bìghà tíá tí mō zì bé ↓kó  
 Inah P<sub>1</sub> make Kum CNS P<sub>1</sub> cook fufu D dogs D two & SM P<sub>1</sub> eat fufu D  
 ‘Inah made Kum cook fufu, and then the two dogs ate the fufu’
- b. ò mō zòm é-zòm, tí-bvú (.) ò-bìghà tíá tí mō zì bé ↓kó  
 SM P<sub>1</sub> sing song dogs D two & SM P<sub>1</sub> eat fufu D  
 ‘he sang a song and then the two dogs ate fufu’

It must be emphasized that in order to study the form of the subject NP a numeral must be present. Since the limited texts published in Hyman (1979b) are of little help, we must rely on judgments obtained via elicitation.

The second variation concerns object noun phrases in an S AUX X V NP construction where some other element has been fronted into the IBV position. Elicited forms include the following:

(37) Variation of the object in an S AUX X V NP construction

- |    |       |     |                |       |                 |                          |   |   |
|----|-------|-----|----------------|-------|-----------------|--------------------------|---|---|
| a. | bùghò | ò   | mò             | né    | zí              | <u>kí-bé</u>             | ‘if he ate FUFU today’                        |   |
|    | if    | SM  | P <sub>1</sub> | today | eat             | fufu                     | (*bé <sup>1</sup> kó : consistently rejected) |   |
| b. | ò     | kà  | mò             | né    | zí              | <u>bé <sup>1</sup>kó</u> | ‘he didn’t eat FUFU today’                    |   |
|    | SM    | NEG | P <sub>1</sub> | today | eat             | fufu D                   | (?*kí-bé : usually rejected)                  |   |
| c. | à     | kà  | mò             | bé    | <sup>1</sup> kí | zí                       | <u>tí-bvú</u>                                 | ‘THE DOGS didn’t eat fufu’                  |
|    | SM    | NEG | P <sub>1</sub> | fufu  | D               | eat                      | dogs  | (bvú <sup>1</sup> tó accepted AND rejected) |
| d. | à     | kà  | mò             | bé    | <sup>1</sup> kí | zí                       | <u>bvú <sup>1</sup>tó</u>                     | ‘THE DOGS didn’t eat fufu’                  |
|    | SM    | NEG | P <sub>1</sub> | fufu  | D               | eat                      | dogs D  | (tí-bvú accepted AND rejected)              |

(37a,b) involve the realization of the object NP when the the adjunct *né* ‘today’ is preposed. Since I elicited such clauses on numerous occasions and with different speakers, I include under each gloss a summary of my findings. As seen in (37a), where an if-clause should condition the B form, the B form is consistently rejected. On the other hand, in (37b), where negation continues to condition the B form, the A form is usually rejected. (37c,d) involve the realization of the adposed subject NP when the object NP ‘fufu’ is preposed. While negation should condition the B form, as indicated, both A and B forms have been accepted and rejected on different occasions—and by the same speaker. Why these inconsistent effects should be the way they are is not clear at this point.

## 5. Conclusion

In the above sections I have presented an overview of focus marking in Aghem. As seen, focus marking is impressively pervasive in the language affecting not only the syntactic structure, but also the tense-aspect morphology and the properties of DET within the noun phrase. In Hyman (1979a) I was impressed by tendency for the B form to appear more frequently when the NP was “out of focus”, e.g. an object knocked out of the IAV or occurring in a “backgrounded clause”. There was however considerable “leakage”. First there was the question of how to account for the B forms that appear after negatives or imperatives? In a sentence like *zí bé <sup>1</sup>kó nò* ‘eat FUFU!’, repeated from (11g), the focus marker /nò/ clearly indicates that the object ‘fufu’ is in focus, but ‘fufu’ is still in B form. Even more damaging to the semantic approach is its inability to account for the NP-internal conditions: Why should the B form should be required when an adjective is present or when the head of the noun phrase is null? A syntactic approach not only accounts for this, but captures the obvious relation to what happens within the verb phrase. Thus, although semantic focus at first appeared to be centrally involved in determining whether we get -ó or eD, the syntactic generalization concerning heads and their governees accounts for a fuller range of facts.

While I have of course not given a full formal account, the above can be taken to represent a general strategy for developing a more fully articulated theory to handle the Aghem facts. In

the meantime we might take two morals from the Aghem experience. The first is that it is profitable to follow the morphology. The second is that all focus systems leak.

## References

- Anderson, Stephen C. 1979. Verb structure. In Hyman (1979b), 73-136.
- Carter, Hazel. 1962. *Notes on the tonal system of Northern Rhodesian Plateau Tonga*. London.
- Creissels, Denis. 1996. La tonalité des finales verbales et la distinction entre formes verbales conjointes et formes verbales disjointes en tswana. *Africana Linguistica* XI, 27-47. Tervuren: Musée Royal de l'Afrique Centrale.
- Givón, Talmy. 1971. *Studies in ChiBemba and Bantu Grammar*. *Studies in African Linguistics*, Supplement 3.
- Güldemann, Tom. 2003. Present progressive vis-à-vis predication focus in Bantu. *Studies in Language* 27.323-360.
- Horvath, Julia. 1986. FOCUS in the theory of grammar and the syntax of Hungarian. Dordrecht: Foris.
- Hyman, Larry M. 1979a. Phonology and noun structure. Part I to Hyman (1979b), 1-72.
- Hyman, Larry M. (ed.). 1979b. *Aghem grammatical structure*. Southern California Occasional Papers in Linguistics 7. Los Angeles: University of Southern California.
- Hyman, Larry M. 1985. Dependency relations in Aghem syntax: the mysterious case of the empty determiner in Aghem. In *Précis from the 15th Annual Conference on African Linguistics*. Supplement 9 to *Studies in African Linguistics*, 151-156.
- Hyman, Larry M. 1999. "The interaction between focus and tone in Bantu". In Georges Rebuschi & Laurie Tuller (eds), *The grammar of focus*, 151-177. Amsterdam: John Benjamins.
- Kießling, Roland. Focalisation and defocalisation in Isu (in this volume).
- Hyman, Larry M. & John R. Roberts. 1984. Auxiliary focus. *Studies in African Linguistics* 15.233-273.
- Marchese, Lynell. 1983. On assertive focus and the inherent focus nature of negatives and imperatives. *Journal of African Languages and Linguistics* 5.115-129.
- Meeussen, A.E. 1959. Essai de grammaire rundi. Tervuren: Annales du Musée Royal de l'Afrique Centrale.
- Meeussen, A.E. 1963. Morphotology of the Tonga verb. *Journal of African Languages* 2.72-92.
- Sharman, J.C. 1955. The tabulation of tenses in a Bantu language (Bemba: Northern Rhodesia). *Africa* 25.393-404.
- Watters, John R. 1979. Focus in Aghem: a study of its formal correlates and typology. In Hyman (1979b), 137-197.