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# GRAMMATICAL TONE- H TOMORPH, A MARKER OF ATTRIBUTION IN IKHIN, AN EDOID LANGUAGE

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#### **Abstract:**

The typology of Ikhin tone system is 'two tones plus a downstep', that is, the lowering of the pitch level of the second high tone in a high [H], low [L], high [H] tone sequence. This paper, therefore, examines the behavior of these tones in the attributive constructions in Ikhin, an Edoid language in South-South, Nigeria. The study observes that in Ikhin, the attribute of a noun (N) is indicated by post posing a modifier (M) after the noun. The normal order between a noun (N) and its modifier is therefore that the noun precedes its modifier. On the one hand, there is a construction marker isè [-]. At morpheme boundary in noun- noun construction, the high toned initial vowel of isè is deleted but its tone remains to perform a grammatical function. On the other hand, other kind of the construction in which the modifying element is not a noun, only a H tomorph is used as the construction marker. This H tomorph marks the relationship between a noun and its modifier. The paper also describes the role of L tomorph in the dynamics of downstep in the language.

**Keywords:** Ikhin, Edoid language, attributive construction, noun-noun construction, tomorph

#### 1. Introduction

Ikhin is a southern Nigerian language. It is a member of the Edoid language family. According to Oladimeji (2013), it is a daughter language of the Edoid North-Central group, previously known as Eastern Kwa. Oladimeji (2010) claims categorically that the Ikhin language is spoken in Ikhin in Edo State's Owan East Local Government Area. However, the Edoid languages are mostly classified into four categories. They are North Central (NC), Northwestern (NW), Southwestern (SW), and Delta (D) Lewis (2013:160). Additionally, Elugbe (1989) noted that the Edoid languages migrated from the eastern Niger Delta's Rivers and Bayelsa States into sections of Ondo and Kogi States through Delta and Edo States. (<a href="http://www.ling.mq.edu.au">http://www.ling.mq.edu.au</a>).

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This paper examines tone alternation in the attributive constructions in Ikhin. It establishes that, except for noun-numeral construction, all low tones on the first nouns in the attributive constructions alternate with high tones. The paper argues that a H tomorph which is not segmentally visible is responsible for this alternation and is therefore a marker of attribution in Ikhin.

## 2. Methodology

This work employs a descriptive and analytical approach. This research relied on data from native Ikhin speakers. Data were gathered using wordlists and tape recorders. Audio recordings were utilised to gather additional information from traditional tales, discussions and descriptions as well as unexplained utterances (Oladimeji 2013). The computerised speech laboratory's speech file system was used to analyse the data.

#### 3. Related Works

Ikhin's attributive construction has not been referenced in the discussion of tone in any of Edoid language studies. Folarin (1982) was the only linguist to examine this language prior to this. The focus then was mostly on phonetics.

# 4. The Typological Classification of Ikhin Tone System

Ikhin¹ is a terraced level tone system. The typology of Ikhin tone system is 'two basic tones plus a downstep'. These two basic tones are High (H) and Low (L). We shall describe downstep with the abbreviation DS and symbolize it with a floating L ( `) in underlying forms, and with a raised exclamation mark (!) in surface forms. Since synchronic evidence exists showing that DS derives from low tones, every case of DS is assumed to have arisen from underlying L.

Ikhin also has downdrift (DD): lows (i,e. L and L) are realized on a successively lowered level. In Ikhin, unlike in Edo (Bini) and Hausa, H does not have a DD effect on L. Besides, a H does not cause a following low tone to downdrift unless that low is in word final position, in which case, it downglides<sup>2</sup>.

# 5. Downstep and Downdrift

Downdrift occurs in tone sequences involving alternating high (H) and low (L) tones. This was initially assumed to be a predictable matter of phonetic realization. In languages with downdrift, any H preceded by L is realized at a lower pitch level than an earlier H, in this sense, downdrift was distinguished from downstepinwhich one H tone is realized at a lower pitch level than a preceding H tone without any apparent conditioning factor e.g

## Example 1:

T (*1	
H +1	_
17111	Ν.

a.	obon	mosquito
b.	ob!oʻn	chief
c.	obon	care

It is now widely accepted that downdrift and downstep in these limited meanings are symptoms of fundamentally the same event. e.g. Stewart's phrase (1983) "automatic downstep" (for surface HLH sequences) and "non-automatic downstep" (where no conditioning factor is present in the surface tonal string). At the surface structure in Edoid languages, the low tone that has reduced a high tone is lost. The absence of the conditioning low tone results in a variety of surface representations in which a high tone is followed immediately by a decreased high tone.

# 6. Downstep in Morphemes and Sentences

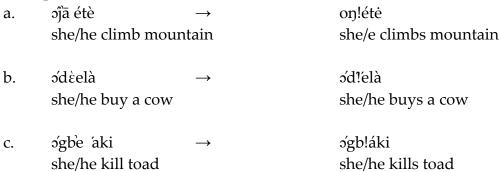
When a low-toned vowel before a high-toned vowel elides after full reduplication, a downstepped high tone is formed in Ikhin morphemes.

# Example 2:

inpu	ıt	by reduplication	by v	owel elision\
a.	όγὸ day	όγὸόγὸ dayday	$\rightarrow$	óγ!óγò everyday
b.	ảsò night	ảsòảsò	$\rightarrow$	ås!asò everynight
c.	έγè time	έγὲέγὲ timetime	$\rightarrow$	έγ!έγè everytime

In Ikhin, downstep also occurs in sentences and is as a result of vowel elision. A high tone may be downstepped when a low-toned vowel preceding a high-toned vowel across a morpheme boundary is desyllabified:

# Example 3:



Each of the verbs above has a low tone, which has brought down the subsequent high tone in the underlying structure. The surface structure obliterates this same low tone. Numerous experts, notably Steward (1981), have proposed that the primary etiology of DS is a floating low tone, thus it is not out of place to postulate a floating low tone, that is, L tomorph, for the downstepped high tone.

#### 7. Tone in the Attributive Constructions

The typology of the tone system of Ikhin is very well demonstrated by the behaviour of tones in the attributive constructions. The main purpose of this section is to explore the tonal behaviour in attributive constructions in Ikhin and in doing so we provide a systematic description and explanation of instances where high and low tones alternate. We also examine instances where the conditioning tone is not physically present but its effect remains on the low tone.

In lkhin, when a noun has another noun as its modifier, the morpheme 'ísè' occurs in between them. This morpheme is called a construction marker.

# Example 4:

άο̈́	ísὲ	e e e e e e e e e e e e e e e e e e e	$\rightarrow$	⊚၁′ESƏbù
leg	cm	doctor		leg of doctor

This construction marker has a prefix high tone which performs a grammatical function. This tone has been identified in almost every Edoid language. Indeed, in Ikhin, it is not just in a noun-noun construction but also in demonstrative, possessive and relative clause constructions. In Ikhin and perhaps in most Edoid languages, the normal arrangement between a noun (N) and its modifier (M) is for a noun to precede its modifier. Therefore, the attribute of a noun (N) is indicated by post posing a modifier (M) after a noun (N). The modifier can be any of the following:

#### Example 5:

	N+Modifier	Exam	ples			
a.	N+ N	οὲ leg	ísè cm	ʻəbʻu doctor	$\rightarrow$	ာ်းေခဲ့bù leg of doctor
b.	N+Possessive	ibàtà shoe	mὲ my		$\rightarrow$	ibátàmὲ my shoe
C.	N+demonstrative	omo child	ona this		$\rightarrow$	'omonà this child
d.	N+ numeral	abo hand	eva two		$\rightarrow$	'abova' two hands

e.	N+relative clause	ὲkpà	nìi	edge?	$\rightarrow$	èkpán`ɔgb <u>`</u> ɔ
		bag	cm	be new		a bag which is new

It appears that the associative marker is a VCV with the prefix vowel on a high tone. Elugbe (1985) claims "in proto-Edoid, an agreement marker existed between a noun and its modifier. This agreement marker carried a H which, in most Edoid languages, is the only available evidence of the marker". According to him, an associative or genitive agreement marker still exists segmentally in Oloma and it carries a high tone. Urhobo has a marker roe which also carries a high tone.

## 8. Alternation Between High and Low Tones in The Attributive Constructions

In Ikhin, all low tones on the first noun alternate with high tones. The construction marker /ise/ has its initial and final vowels dropped while the vowels of the nouns being fused together are retained.

The following paradigms exemplify the tonal behaviour in N1 + N2 construction:

Exam	Example 6:					
a.	N+ LL èxùà cheek	CM + ísè cm	+ N LL òkpè palmfruit	$\rightarrow$	éxwásòkpè cheek of palmfruit harvester	
b.	ètò hair	ísè cm	òkpè palmfruit	$\rightarrow$	étósôkpė hair of palmfruit harvester	
C.	LL èkpå 'skin'	+ ísè cm	HL égbè body	$\rightarrow$	´ɛkp´as!égbè skin of body	
d.	ὲkpà skin	ísè cm	ékè stomach	$\rightarrow$	εκράs!έkὲ skin of stomach	
e.	οὲ leg	ise cm	⊚ɛlà cow	$\rightarrow$	ó⊚εselà leg of cow	
f.	LL ètò hair	+ ísè cm	HH úsó head	$\rightarrow$	étós!úsó hair of head	
g.	ὲkpà skin HL	ísè cm +	úsó head LL		εkpʻas!úsó skin of head	

 $\label{eq:oladimeji} Olaide~A.$  GRAMMATICAL TONE- H TOMORPH, A MARKER OF ATTRIBUTION IN IKHIN, AN EDOID LANGUAGE

h.	ὲlà	ísὲ	óďc		Élásəbò
	cow	cm	doctor		cow of doctor
i.	ὲlà	ísὲ	okpè		εlásòkpė
	cow	cm	palmwine	harves	harvestercow of palmwine ster
j.	úgbò	ísὲ	oશેર્ક		úgbóseßô
	bush	cm	town		bush of town
k.	ódi	ísὲ	èßo	$\rightarrow$	ódísèßò
	wall	of	town		wall of town
1.	úkò	ísè	ảmέ	$\rightarrow$	úkósámέ
	container	cm	water		container of water
	HL	+	HL		
m.	⊚ugbò ísὲ	ὲlà	$\rightarrow$	úgbósè	
m.			HL → com		Èlà bush of cow
m.	⊚ugbò ísὲ	ὲlà	$\rightarrow$		
	⊚ugbò ísὲ bush	ὲlà cm	→ com	$\rightarrow$	bush of cow
	⊚ugbò ísὲ bush ákà	έlà cm ísὲ	→ com elà	$\rightarrow$	bush of cow ákásèlà
	<ul><li>ougbò ísὲ bush</li><li>ákà basket</li><li>HL</li><li>okpà</li></ul>	έlà cm ísὲ cm + ísὲ	com elà cow HH úsó	$\rightarrow$	bush of cow ákásèlà basket of cow ókpás!úsó
n.	ougbò ísὲ bush ákà basket HL	έlà cm ísὲ cm	com elà cow	$\rightarrow$	bush of cow ákásèlà basket of cow
n.	<ul><li>ougbò ísὲ bush</li><li>ákà basket</li><li>HL</li><li>okpà</li></ul>	έlà cm ísὲ cm + ísὲ	com elà cow HH úsó	$\rightarrow$ $\rightarrow$	bush of cow ákásèlà basket of cow ókpás!úsó

Contrary to what was observed in the noun plus noun construction discussed above where the conditioning high tone was visible and segmentally grounded, the demonstrative, possessive and relative clause constructions have no overt high tone but a tomorph that conditions the alternation as shown in the following paradigms:

Exam	ple 7:				
	N +	*	+ DEM		
	LL +	*	+ LL		
a. LL:	òè:	o śoʻ	`onà	$\rightarrow$	σ́εnà
	leg		this		this leg
b.	àὲ: legs	àÈ 🛮	ènà these	$\rightarrow$	á⊚enà these legs

c.	obò:	obò 🏻	oìn <b>i</b>		⊚ob⊚oni ̃
	doctor		that		that doctor
d.	èbò:	èbò′	èni	$\rightarrow$	ébóni
	doctors		these		these doctors
	HL	+ ☆	+LL		
e.	ákà:	ákà 🏻	`onà	$\rightarrow$	ákánà
	basket		this		this basket
f.	ákà:	ákà ′	ènà	$\rightarrow$	ákénà
	basket		these		these baskets
g.	ódì:	ódì 🏻	`onà	$\rightarrow$	ódínà
	wall		this		this wall
Exam	ple 8:				
	N +	*	+ Poss		
	LL	+	+ LL		
a. LL:		òbo` ⊚	so`	$\rightarrow$	óbóssò
	hand	his			his hand
b.	àbo:	àbo`′	è!è	$\rightarrow$	ábo!è
	hand		their		their hands
	HL +	*	+LL		
c. HL:		ákà ′	sə`	$\rightarrow$	ákásə
	basket	his/her	his/her bask	et'	
d.	ákà:	ákà′	è!è	$\rightarrow$	áká!è
	basket	their	'their basket	•	

In the noun plus numeral construction however, the low tones on the noun do not alternate as in the various constructions discussed earlier but remain low at the surface level. We can postulate therefore that the noun plus numeral construction has a low tone as its own tomorph.

# Example 9:

$$N$$
 + +  $NUM$ 
 $LL$  +  $\dot{}$  +  $LL$ 

a.  $\dot{a}\dot{b}\dot{a}\dot{}$   $\dot{}$   $\dot{e}\dot{v}\dot{a}$   $\rightarrow$   $\dot{a}\dot{b}\dot{a}\dot{}$   $\dot{}$   $\dot{}$  two hands

b.	ùsò head	`	èvà two	$\rightarrow$	usòvà two heads
C.	òè leg	`	èhà three	$\rightarrow$	òὲhà three legs

In Ikhin, the marker of a relative clause 'nì' is with a low tone. This relative marker precedes the clause and is itself immediately preceded by the head noun.

The above examples constitute a further illustration of the alternation between lows and highs in Ikhin.

#### 9. Conclusion

Tone alternation is a grammatical phenomenon. The study established that, except for noun- numeral construction, an associative H tomorph is a marker of attribution in Ikhin even when it is not segmentally visible. The happenings in Ikhin and other Edoid languages mentioned here, with respect to this phenomenon, imply that even in Proto-Edoid, there is a tonal morpheme (tomorph).

Amayo (1976) accounts for similar changes in Edo (Bini) by postulating floating tones (in the phonological representation) for each noun phrase type identified. Such

floating tones were sometimes derived historically as remnants of a deleted construction in Edo (Egbokhare,1990). Based on the above, it is evident that the H tomorph postulated is responsible for the tonal changes presented in this paper.

#### **Conflict of Interest Statement**

The author declares no conflicts of interest.

#### About the Author

Dr. Olaide Oladimeji holds a doctorate degree in Linguistics from the University of Ibadan, Nigeria. Currently, he is a lecturer 1 in the department of Linguistics and Languages, Federal University, Oye-Ekiti, Ekiti State, Nigeria, His research interests include Phonology and Syntax. He has published extensively in both local and international journals. He is a member of Google Scholar and other academic networks.

#### References

- Amayo, Airen. "A Generative Phonology of Edo (Bini)", Unpublished PhD Thesis, Department of Linguistics and African Languages, University of Ibadan. 1976. Print.
- Blench, Roger. New Benue Congo. A Definition and Proposed Internal Classification. *Arbeits Papiere*. 17: 115 147. 1989. Print
- Chomsky, Noam and Halle, Morris. *The Sound Pattern of English*. New York: Harper & Row. 1968. Print
- Egbokhare, Francis. "A Phonology of Emai". Unpublished PhD Thesis, University of lbadan.1990. Print.
- Elugbe, Ben. The Tone System of Ghotuo. Cambridge papers in Phonetics and Experimental Linguistics. 4: 1-21.1985. Print.
- Elugbe, Ben. Edoid. In J.T. Bendor-Samuel (ed.). The Niger-Congo Languages, 291-304. New York: University Press of America. 1989. Print.
- Goldsmith, John. "Autosegmental Phonology". Unpublished PhD. Thesis. Massachusetts Institute of Technology (MIT) 1976. Print.
- Goldsmith, John. *Autosegmental and Metrical Phonology*. Oxford: Basil Blackwell. 1990. Print.
- Kiparsky, Paul. "How abstract is Phonology?" Bloomington. Indiana: Indiana University Linguistics Club. 1968. Print.
- Leben, Williams. The Role of tone in Segmental Phonology. In L. Hyman (ed.) *Consonant Types and Tones* southern California: Occasional papers in Linguistic No. 1: 117 149. 1973. Print
- Lewis, Ademola. *North Edoid relations and roots*. Doctoral dissertation, University of Ibadan. 2013.
- Oladimeji, Olaide. "A Phonology of Ikhin, an Edoid Language in South South, Nigeria." Unpublished PhD Thesis, University of Ibadan. 2010. Print.

- Oladimeji, Olaide. The Tone System of Ikhin. Open Science Repository Language and Linguistics. <a href="www.open-science-repository.com">www.open-science-repository.com</a> 2013. Web.
- Oladimeji, Olaide and Opoola, Bolanle. (2021). Ikhin Tone and Nasality: Autosegmenta Effects. Journal of Language Teaching and Research, Vol.12, No.4,pp603-610. Print.
- Pike, Kennet. Languages. Ann Arbour: University of Michigan Press. Tone 1948. Print
- Stewart, John. Key Loweing (Downstep/Dwnglide) in D. Schang. Journal of African Languages and Linguistics vol. 3. No. 2: 113 -138. 1981. Print.
- Welmers, William. African Language Structures. Los Angeles: University of California Press.1973. Print.
- Macquarie University, Department of Linguistic (2022). Retrieved 12 August 2022, from <a href="http://www.ling.mq.edu.au">http://www.ling.mq.edu.au</a>.

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