ICHL20, Genealogical and Areal Relations in the Kalahari Basin, Osaka

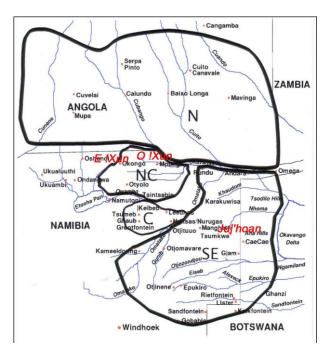
# DEMONSTRATIVE AND RELATIVE CONSTRUCTIONS IN JUU: A DIACHRONIC PERSPECTIVE Florian Lionnet University of California, Berkeley

### 0. INTRODUCTION

- (1) Juu = dialect cluster (formerly known as Northern Khoisan<sup>1</sup>), recently shown to form a genetic unit (Kx'a) with the <sup>‡</sup>Hoan language of Botswana (cf. Heine & Honken 2010)
- (2) Classification of Juu lects (Snyman 1997, refined by Sands & Miller-Ockhuizen 2000 and Sands forth.), based on regular sound correspondences:

Dialectal groups	Well-documented lects
Northern (N)	
North-Central (NC)	- Ekoka !Xun (E !Xun) $^2$
	- Ovamboland/West-Kavango !Xun (O !Xun) <sup>3</sup>
	- Lloyd's $!$ Xun (L $!$ Xun) <sup>4</sup>
Central (C)	
South-Eastern (SE)	Jul'hoan <sup>5</sup>

(3) Map of Juu dialectal groups (from Sands (forth.)):



(4) Three markers described as deictic demonstratives:

		Jul'hoon (SE)		
	E !Xun <sup>6</sup>	O !Xun	L !Xun	Jul'hoan (SE)
PROX1	é	è	e	hè/kè
PROX2	áàng	àng	?	
DIST	tò 'à~ndò 'à	tò 'à~ndò 'à	to 'a~(n)do 'a	tồ 'à

- (5) Relative constructions in Juu:
  - a. NC !Xun dialects: REL = PROX e
  - b. Jul'hoan (SE): REL suffix  $-\dot{a}$  on the head noun
- (6) Goal of the present paper:
  - a. part 1: unified pan-dialectal DESCRIPTION of the various uses of those three markers in the modern Juu dialects for which there is enough documentation;
  - b. part 2: tentative RECONSTRUCTION of the proto-Juu system and a diachronic account of the present situation.

#### 1. MODERN DIALECTS

# 1.1. North-Central !Xun dialects

#### 1.1.1. Noun-modifying Demonstrative ('this/that NP')

(7) <u>NP<sub>i</sub> + Cl<sub>i</sub> + e/ang/to'a</u> (Cl. agrees with head Noun)

	а.	<b>n∥ồhứ</b> message 'That stor	Cl.3	DIST		òhá COP	yíí Cl.3	n/á'ấng (be)good	(H 1987:37(18); O !Xun)
	b.	<b>g/ầhxú</b> chair.1 'This (par	Cl.1	<b>é</b> PROX ) chair'					(KH 2001:65; E !Xun)
	с.	<i>ts'oo</i> sinew.4 'This thre				ti IPFV	<i>n!u'a</i> throw		(119:9899; T; L !Xun)
(8)	<u>NP</u>	+ e/ang/t	<u>o'a</u> (atte	ested in	L !Xun	only so	o far)		
	а.	<i>!Xuun</i> !Xun 'The !Xur	ti IPFV 1 people		0	4PROX	е		(122:10215,  'U; L Xun)
	1.1	.2. Deicti	c predi	icates (	be here	e/there	~ be t	his/that)	
(9)	NP	<u>i (+TAM)</u>	+ Cl. <u>i</u> +	e/ang/t	<u>to'a</u> (wi	th agree	eing cla	ss pronour	1)
	а.	<i>dàbà</i> child.1 'That is a	<i>d</i> î (be)na naught	•••		<b>hầ</b> 1	<b>tò'à</b> DIST		(H 1987:74(31); O !Xun)
	b.	hầ Cl.1 'His place	<i>khó</i> place.: e is this	3TOP	<b>yíí</b> Cl.3 here'	<b>áàng</b> PROX			(KH 2001:65; E !Xun)
	с.	<i>∥haa</i> meat 'this is ar	<i>!huu</i> thorn. anima	4	<b>ka</b> IPFV (i.e. ho:		PROX		(119:9899; T; L !Xun)

(10) <u>NP (+TAM) + e/ang/to'a</u>, without agreeing class pronoun:

	а.	mĩ 1.SG 'Those ar	<i>zѷhű xồầ</i> people.3 ce my people		<b>àŋ</b> <sup>7</sup> PROX	(H 1987:74(30); O !Xun)
	b.	<i>càng</i> 3.PL 'Their pla	<i>‼úű</i> place:4 aces are thos	(hầng) PL e.'	m-ť TOP-HAB	<b>ndò'à</b> DIST (K&H2001:66; E !Xun)
	с.	me 1.SG 'This is n	<i>n ee ti</i> head IPFV ny head.'	e 7 PROX		(10207;  'U; L !Xun)
	d.	<i>!uru</i> quiver '(T)here	<b>to'a,</b> ta DIST and is a quiver, a	<i>∥au to'a</i> arrow DIST nd (t)here are a		(119:9938; T; L !Xun)
(11)		te that in is/it is NP	-	) and (10), the	e predicative D	DEM is used as a presentative
	1.1	.3. Ident	ificational c	opula (L !Xun	only)	
(12)	<u>NP</u>	$e_1 + e + NP_2$	= NP <sub>1</sub> is NP	2		
	а.	m 1.SG 'My fathe	ba !uu father nam er's name is	<i>ti e</i> le IPFV COP D- ue'	<i>  Oo- ue</i>   O- ue	(122:10211;  'U; L !Xun)
	b.	<i>ma</i> 2.SG 'You are	<i>e</i> COP hare a hare, and I		na <b>e</b> COP  Xue	/Xue (119:9900; T; L !Xun)
	с.	<i>na</i> 1.SG 'I am not	/ <i>ua e</i> NEG COF a mere hare			(120:9932; T; L !Xun)
	1.1	.4. Relat	ive Clause			
(13)	<u>NP</u>	$e_i + [Cli + e]$	x + RC], with	agreeing class p	pronoun:	
	а.	<i>kùhú</i> road 'The road		<i>!àé-hầng</i> villages.3-P gh all the villag	Lall Cl.3	<ul> <li>è !xúűn òhá</li> <li>REL !Xun COP</li> <li>people live.'(H 1987:35; O !Xun)</li> </ul>
	b.	<i>gùm</i> ì cow.1 'The cow	<b>hầ è Cl.1 REI</b> 7 that is comi		n∥á'à be.big	(KH 2001:119; E !Xun)
	с.	∥'ee grass.3 'grass ou	Cl.3 REL	e ti 1.PL.E IPFV e make thread'	taba ts'oo ' make sinev	a v/thread ? (119:9896; T; L !Xun

(14) <u>NP + [e + RC]</u>, without agreeing class pronoun (unattested in Heikkinen's O !Xun data):

	а.	gùmì cow.1 'The cow	REL	come	TOP	be.big			(1	KH 200	1:119; ]	E !Xun)
	b.	<i>∥au</i> arrow 'many ar	many	e REL hich fill	be.full	.with	<i>!uru</i> quiver		(1	119:993	38-1; T;	L !Xun)
(15)	<u>NP</u>	$\underline{i} + [Cli + R]$	<u>RC]</u> , wit	h agreei	ing clas	s prono	un as o	nly REL	. marke	er:		
	а.	hầ Cl.1 'He came	come.	home-V	E		4	<b>ká</b> Cl.4 is his)	òhá COP (H	Cl.1	gá POS.4 36(6); (	
	b.	<i>∥há</i> meat.4 'That me	Cl.4	DIST	Cl.4	1.SG-F	ST	tell	TOP	DIST	lie.do	
	С.	<i>ta !Xut</i> and !Xut 'And the	n IPFV	′ <sup>″</sup> buy:∖	E Cl.3	3MPO	thing.4	+ Cl.4	name nich is	IPFV san.'		saan san L !Xun)
1.	2. Ju	l 'hoan										
(16)	Dejetic predicates: DROX1 hà/kà and DIST tà'à ND + hà/kà/tà'à – ND is this/that ~											

(16) Deictic predicates: PROX1  $h\dot{e}/k\dot{e}$  and DIST  $t\ddot{o}'\dot{a}$ . <u>NP+ $h\dot{e}/k\dot{e}/t\ddot{o}'\dot{a}$ </u> = NP is this/that ~ this/that is NP (cf. Dickens 2001b, 2005):

a. jù **hè** person.1 PROX.1/3 'This is a person'

b. tjù kè house.4 PROX.4 'This is a house.'

c. n!ồh **tờ'à** orange DIST 'That is an orange.'

(D 2005:49; Ju|'hoan)

(D 2005:49; Ju|'hoan)

(D 2005:49; Ju|'hoan)

(17) Relative clause: <u>NP-à + RC</u> = NP which/who RC.

а.	тĩ	!'hàn	jù <b>-à</b>	kű	dcàá	тĩ	tcí-sì
	1.SG	know	person-REL	IPFV	steal	1.SG	thing-PL
'I know the person who is stealing my things.'							(D 2005:47; Ju 'hoan)

b. jù n/ű-à mí !'hàn... person a.certain-REL 1.SG know
'A certain person who I know...' (D 2005:47; Ju|'hoan) (18) Predicative DEM used in RC  $\approx$  Noun-qualifying demonstrative. <u>NP-à +  $h\dot{e}/k\dot{e}/t\ddot{o}'\dot{a} =$ </u> NP which is this/that = this/that NP (compare the examples below with (16) above)

а.	<i>jù-<b>à</b> person.1<b>-REL</b> 'This person'</i>	hè PROX.1/3	(D 2005:49; Ju 'hoan)
b.	<i>tjù-<b>à</b> house.4-<b>REL</b> 'This house.'</i>	<b>kè</b> PROX.4	(D 2005:49; Ju 'hoan)
с.	<i>n!òh-<b>à</b> orange-<b>REL</b> 'That orange.'</i>	<b>tờ'à</b> DIST	(D 2005:49; Ju 'hoan)

# 1.3. Summary

	Iu <sup>2</sup> hoon	NC !Xun					
	Ju 'hoan		E !Xun	O !Xun	L !Xun		
Deictic	NP+ <i>hè/kè/t</i> ồ'à	$NP_i + Cl_i + e/ang/to'a$	yes	yes	yes		
predicate		NP+ e/ang/to'a	yes	yes	yes		
PROX as copula		$NP_1 + e + NP_2$	no	no	yes		
Modifying	NP-à+hè/kè/tồ'à	NP + Cl. + $e/ang/to'a$	yes	yes	yes		
demonstrative		NP+ e/ang/to'a	?	?	yes		
Relative	NP- $\dot{a}$ + [RC]	$NP_i + Cl_i + e + RC$	yes	yes	yes		
marker		NP + e + RC	yes	?	yes		
		$NP_i + Cl_i + RC$	yes	yes	yes		

# 2. DIACHRONIC HYPOTHESIS

# 2.1. Proto-Juu system

(19) Tentative reconstructions of Proto-Juu forms: (tones are not reconstructed<sup>8</sup>):

a. \*e = PROXb. \*to'a = DIST

NB: it is not yet established whether the proximal demonstrative *àng* is to be reconstructed in Proto-Juu or not. I will thus henceforth leave it aside.

- (20) <u>**HYPOTHESIS**</u>: \**e* and \**to*'*a* were deictic predicates in proto-Juu, most probably locative in nature (be here/there)<sup>9</sup>.
- (21) Deictic Predicate Structure (DPS) in Proto-Juu:

NP + e/\*to'a = NP is here/there > This/that is NP

(22) I propose to consider that class pronouns were the only relative markers (i.e. relative pronouns) in proto-Juu:

Relative Clause Structure (RCS):

 $NP_i + [Cl_i + RC] = NP who/which RC$ 

(23) In order to modify a NP, the two deictics \**e* and *to'a*, being predicates, need to be used in a RCS (RCS-DEM):

RCS-DEM (RCS with deictic predicate \*e/\*to'a,  $\approx$  modifying demonstrative):

 $NP_i + [Cl_i + *e/*to'a]_{RC} = NP$  which is here/there > This/that NP

### 2.2. From Proto-Juu to NC !Xun

#### 2.2.1. DPS: NP + \*e/\*to'a

- (24) Marginally preserved in NC !Xun dialects, very often with a presentative/identificational use (cf. ex.(10) above).
- (25) From Deictic Predicate  $*\hat{e}$  to identificational copula in L !Xun, cf.(12) above:

	NP+*e	=	NP is here (Deictic Predicate Structure)
	↓ NP+*e	=	NP is this / this is NP
	↓ NP+*e	=	it is NP (* $e$ = Presentative)
ſ	.l.		
OPTION 1	$\downarrow \\ [NP1]_{TOP} [NP2+*e] \\ \downarrow \\ NP1 + e + NP2$	=	It is NP1, NP2
	$\downarrow$ NP1+ <i>e</i> +NP2	=	NP1 is NP2 ( <i>e</i> moves ??)
ſ	.l.		
OPTION 2	• [NP1+*e] [NP2] <sub>ТОР</sub> ↓	=	It is NP1, NP2
	$\downarrow$ NP1+ <i>e</i> +NP2	=	NP1 is NP2 (identified NP is not NP2
			anymore)

#### 2.2.2. RCS: NP + [Cl. + RC]

(26) This structure is marginally preserved in NC !Xun dialects (cf. (15) above). It has been replaced by an innovating structure derived from RCS-DEM (cf. (29) below).

**2.2.1. RCS-DEM:** NP +  $[Cl. + *e/*to'a]_{RC}$ 

(27) <u>RCS-DEM > Modifying Demonstrative Structure</u>, with or without agreeing pronoun (not attested in the O !Xun and E !Xun data published so far, but very common in L !Xun.)

 $NP_{i} + [Cl_{i} + *e/*to'a]_{RC} = NP \text{ which is this/that}$   $\downarrow$   $NP + Cl_{agreement} + e/to'a_{non-pred} = this/that NP (cf. (7) above)$   $\downarrow$   $NP + e/to'a_{non-pred} = this/that NP (ex. (8) above, L !Xun only)$ 

- a. *e/to'a* are reanalyzed as non-predicative demonstratives
- b. The class pronoun, reanalyzed as an agreement marker, is dropped when agreement between the head noun and the modifying demonstrative becomes unnecessary/optional.
- (28) Hence the coexistence of two superficially identical  $(NP + \dot{e}/\dot{t}\dot{o}\dot{a})$  but fundamentally different structures in L !Xun:
  - a. Deictic Predicate Structure  $[NP]_{SBJ} + [e/ang/to'a]_{PRED} = here/this/it is NP, cf. (10) above.$
  - b. Modifying Demonstrative Structure  $[NP + e/ang/to'a]_{NP} =$  This/that NP, cf. (8) above.
- (29) <u>Modifying Demonstrative Structure > Relative Clause</u>: the non-predicative PROX \*e was reanalyzed as a relative marker (cf. ex.(13)-(15) above)<sup>10</sup>:

NP (+Cl.) + e = This NP  $\downarrow$   $[NP (+Cl.) + e]_{TOP} + Clause = [This NP]_{TOP} + Clause (e.g. This book, I bought in London)$   $\downarrow$   $[NP]_{head} + [(Cl. +) e + Clause]_{RC} = [NP]_{head} [who/which + Clause]_{RC}$ 

- (30) Last NC !Xun structure to account for:  $\underline{NP(+TAM) + Cl. + e/to'a}$  (DPS with agreeing class pronoun, cf. (9) above).
  - a. Variant with no TAM marker could be interpreted as a case of topicalization or focalization by extraposition and mere parataxis (e.g. a very good surprise, this phone call),
  - b. It is not the case of the versions with a TAM marker, which clearly indicates that the sequence [Cl. + e/to'a] is a predicate.
  - c. The tentative hypothesis I cautiously propose here is that both structures (with and without a TAM marker) derive from a headless relative clause  $[Cl + *\dot{e}/t\dot{o}'\dot{a}]$  = 'this/that (one)') used in a topical structure, as detailed in (31) below:
- (31) From a headless RC to a Deictic Predicate Structure in NC !Xun:

$\emptyset_{\text{head-NP}} + [Cl. + *e/*to'a]_{RC}$	= this (one)
$[NP]_{TOP}, [\emptyset_{head-NP} + [Cl. + *e/*to'a]_{RC}]$	= [NP] <sub>TOP</sub> , this (pne) (e.g."a good surprise, this (is)")
$\downarrow [NP]_{SBJ} + [Cl. + e/to'a]_{PRED}$	= NP is this (one)

→ the sequence Cl. + e/to'a is reanalyzed as a deictic predicate by analogy with the very similar structure  $[NP]_{SBJ} + [e/to'a]_{PRED}$ , the pronoun being analyzed as a mere (optional) agreement marker, exactly as in other structures involving  $*\dot{e}/*t\dot{o}'\dot{a}$  that we have already seen.

- (32) the DPS of the form  $\underline{NP+e/to'a}$  in modern NC !Xun dialects could thus have two origins:
  - a. Proto-Juu DPS NP + e/\*to'a (no change, cf. (24) above)
  - b. NP + Cl. +  $e/to'a_{non-pred}$  (cf. (27) above), with optional agreement class pronoun.

### 2.3. From proto-Juu to Ju|'hoan

#### 2.3.1. Deictic Predicate Structure

(33) The Deictic Predicate Structure is preserved in Jul'hoan (cf. ex.(16)), modulo the lexicalized contraction of the relative class pronoun into proximal è (>h/k-è, cf. 2.3.3 below).

#### 2.3.2. Relative Clause Structure

(34) RCS: from Proto-Juu to Jul'hoan:

 $\begin{array}{l} NP_{head} + [Cl. (=*h\ddot{a}/*yi/*k\acute{a})^{11} + RC] \\ \downarrow \\ NP_{head} + [h\ddot{a} + RC] \\ \downarrow \\ NP_{head} - \dot{a} + [RC] \end{array}$ Generalization of the pronoun of class 1 h\ddot{a} \\ (human + many inanimate entities) to all classes \\ \downarrow \\ NP\_{head} - \dot{a} + [RC] \\ (cf. ex.(17)) Reduction of Cl. to suffix - \dot{a}, which attaches to the last element of the head NP^{12} \end{array}

- a. Generalization to *h*ä: "human gender as a salient and central category is not an implausible target for generalization." (Güldemann 2004:93, 97)
- b. super-L tone > L tone: the fact that the extra-L tone of the pronoun  $h\ddot{a}$  became a simple L tone on the suffix is not necessarily a problem, given the fact that extra-L tones in Juu languages are very often related to breathy voice, which acts as a tone depressor<sup>13</sup>. The consonant *h* is used to transcribe breathy voice (V and hV) in Juu languages. It is therefore not surprising that the extra-L tone should be replaced by a L tone after the depressor context has disappeared (deletion of initial /h).

#### 2.3.3. Modifying demonstratives

In Ju|'hoan, like in Proto-Juu, the deictics  $h\dot{e}/k\dot{e}$  and  $t\ddot{o}'\dot{a}$  being predicates, they may only modify a NP if they are used in a relative clause. The Modifying demonstrative constructions thus underwent the same changes as the Relative Clause Structure (cf. above), with a few more steps for proximal \* $\dot{e}$ :

(35) From Proto-Juu modifying proximal $\dot{e}$ to Ju 'hoan $h\dot{e}/k\dot{e}$ :
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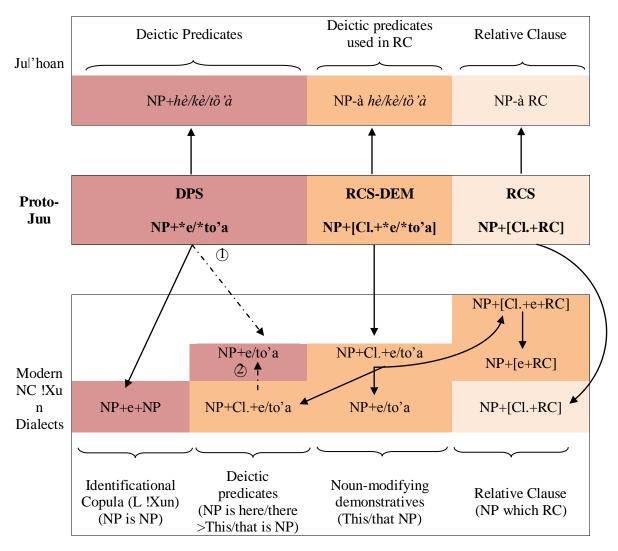
$\frac{NP_{head} + [h\ddot{a}/h\dot{a}/k\dot{a}^{14} + [\dot{e}]_{PRED}]_{RC}}{1}$				
$\mathbf{NP}_{head} + [\mathbf{h}-/\mathbf{h}-/\mathbf{k}- + [*\dot{e}]_{PRED}]_{RC}$	The relative class pronouns are elided and contracted into * <i>è</i> , but are still interpreted as REL markers.			
↓				
NP <sub>head</sub> + [hầ + [hè/kè] <sub>PRED</sub> ] <sub>RC</sub>	(the alternation between h- and k- being analyzed as a mere agreement phenomenon), and the generalized relative pronoun <i>h</i> ä is inserted to replace the relative pronouns that have disappeared			
↓				
NP <sub>head</sub> -à [hè/kè] <sub>RC</sub>	general erosion of <i>h</i> à in all relative constructions.			

From Proto-Juu to Jul'hoan, summary:

	Proto-Juu			>Fusion Cl+è			>Generalization of Cl.1 <i>hà</i> + reinterpr. of hè/kè + analogy with RC			> Fusion –à	
Relative structure	NP	hầ hì ká	RC				NP	hầ	RC	NP-à	RC
Modifying demonstrative (PROX)	NP	$ \begin{cases} h \ddot{a} \\ h \dot{i} \\ k \dot{a} \end{cases} $	è	NP	$ \begin{cases} h-\\ h-\\ k-\\ k- \end{cases} $	è	NP	hä	hè/kè	NP-à	hè/kè
Modifying demonstrative (DIST)	NP	$ \left\{ \begin{matrix} h \ddot{a} \\ h \dot{i} \\ k \dot{a} \end{matrix} \right\}$	tö'à				NP	hầ	tồ'à	NP-à	tờ'à

#### 3. SUMMARY AND CONCLUSION

- (36) Analyzing Proto-Juu proximal \**è* and distal \**tò*'*à* (as well as proximal \**ang* if it is to be reconstructed in Proto-Juu) as deictic predicates allows a diachronic account of demonstrative and relative structures in all documented modern Juu varieties.
- (37) The proposed changes from Proto-Juu to Jul'hoan are relatively simple and straightforward.
- (38) From Proto-Juu to modern NC !Xun dialects, the picture is less clear:
  - a. several layers of history are still attested,
  - b. some structures are superficially identical (in terms of word order) but their actual properties are radically different, because they originate in radically different Proto-Juu structures (predicate vs. modifier).
- (39) The hypothesis that I have proposed in the present paper is but a tentative hypothesis. Juu languages are still poorly documented (with the exception of Ju|'hoan), and much work still needs to be done in order to have a better understanding of this language cluster and its recent history.



# (40) From Proto-Juu to modern Juu dialects, general summary:

#### ABBREVIATIONS, GLOSSES AND PRESENTATION OF EXAMPLES

The abbreviations used in examples and tables follow the Leipzig Glossing Rules, except the following:

E = Exclusive	I = Inclusive	MPO = Multipurpose oblique marker
Cl = Noun Class pronoun	HAB = Habitual	VE = Valence external participant indexing suffix

Bare Arabic numbers indicate person categories when immediately followed by number indication (SG, PL); otherwise they refer to nominal agreement classes (1 through 4). The transcription of L !Xun used in the present paper is based on an analysis of Lucy Lloyd's own transliteration (cf. Lionnet, ms.), and follows the orthography proposed by Güldemann (1998) for Southern African Khoisan as a whole, which is itself greatly inspired by the Ju|hoan orthography (Dickens 1991a).

All examples are accompanied by a reference to the publication in which they were found, which consists in the initial(s) of the author(s), followed by the date of publication and page number (and example number in brackets if available), followed by the name of the dialect: *e.g.* (H 1987:37(18); O !Xun).

The reference accompanying examples taken from Lloyd's notebooks indicate the notebook number followed by the page number, the initial of the informant who contributed the example sentence (N!=N!ani, T=Tame, |'U=|'Uma, D=Daqa), and finally the indication of the dialect: *e.g.* (122:10276; D; L !Xun).

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#### NOTES

<sup>&</sup>lt;sup>1</sup> Since Khoisan is not thought to be a single genetic unit anymore by most specialists, I will not use the terms "Khoisan" and "Northern Khoisan".

<sup>&</sup>lt;sup>2</sup> König & Heine (2001, 2008)

<sup>&</sup>lt;sup>3</sup> Heikkinen (1986, 1987)

<sup>&</sup>lt;sup>4</sup> L !Xun is a NC !Xun dialect documented by Lucy Lloyd in the 1880's. A linguistic edition of Lucy Lloyd's notebooks is underway (cf. Lionnet 2009 & in prep.), and has yielded enough solid data so far to include this dialect in the present paper.

<sup>&</sup>lt;sup>5</sup> Snyman (1970, 1975), Köhler (1981) and Dickens (1991, 1994, 2005).

<sup>&</sup>lt;sup>6</sup> I have taken the liberty to adapt the orthographies chosen by Heikkinen (1986, 1987) for O !Xun and König & Heine (2001, 2008) for E !Xun to the standard orthography proposed by Güldemann

(1998) for South-African Khoisan languages, inspired by that proposed by Dickens (1991) for Jul'hoan.

<sup>7</sup> Heikkinen analyzes *m*-*i* as being the contraction of the topic marker *ma* and the pronoun of class 3 *yt*. KH (2001) propose a different analysis of a similar sentence (ex. (10)b, m-*i* = the topic *ma* + imperfective marker *ki*) which I have chosen to apply to the O !Xun sentence as well.

<sup>8</sup> If the reconstruction of PROX as L-toned  $\dot{e}$  is more than probable (despite the E !Xun form  $\dot{e}$ ), the tonal reconstruction of DIST  $\dot{r}a$  is slightly less straightforward.

<sup>9</sup> Verbals (*i.e.* predicative elements) are indeed a vast class in Juu dialects, and very often encode concepts that are encoded in other categories in European languages, typically deictics, demonstratives (as is still the case in Ju/ihoan, but also less often in NC !Xun), interrogatives (be which) and adjectives (be black, be long etc.).

<sup>10</sup> The reanalysis of a demonstrative into a relative marker is a well documented syntactic change (cf. relative pronouns derived from demonstratives in many Bantu languages, among other examples)

<sup>11</sup> Reconstructed Proto-Juu forms of the pronouns of classes 1 (\* $h\ddot{a}$ ), 2 (\*si), 3(\*yi) and 4 (\* $k\dot{a}$ ) proposed by König & Heine (2008:7). Whether the pronoun of class 2 (human plural) was used as a Relative marker in Proto-Juu is still not certain (its uses are very restricted in all modern dialects, in particular it is never used as a relative marker or as an agreement marker with demonstratives) <sup>12</sup> This hypothesis is one of the two tentative hypotheses proposed by Dickens (1991b).

<sup>13</sup> The exact nature and origin of the extra-L tone in Juu languages, and the relation between the extra-L tone and depressor consonants or vowel colorings (breathy voice and pharyngealization in particular) is not well documented yet, but there seems to be a relation (if not systematic, at least very frequently attested) between extra-L tones and depressors in Juu.

<sup>14</sup> hà, hì and ká are the Jul'hoan forms of the pronouns of classes 1, 3 and 4 respectively.