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Valency in Nllng

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The Nllng language

- last living member of the !Ui branch of the Tuu (aka "Southern Khoisan") family (Güldemann 2006)
- moribund
- today less than ten speakers in Northern Cape Province, South Africa
- all speakers are multi-lingual (Afrikaans plus Nama or Setswana)
- · Nllng not used in daily communication anymore
- several dialects
- former name Nluu, now only used as a name for one of the dialects of Nllng

The language documentation project "A text documentation of Nluu"

- funded by ELDP
- project members: Tom Güldemann, Sven Siegmund, Alena Witzlack-Makarevich, Martina Ernszt
- several field trips since 2007
- Main goals of the project:
 - o creation of a corpus of NIIng, incl. audio and video recordings
 - o annotation and analysis of collected data (Toolbox)
 - focus on naturally spoken language = texts (e.g. folk stories, personal stories, conversations)
 - o focus on idiolectal and dialectal variation
- · current the corpus consists of:
 - o 50 hours of spoken language
 - o 100.000 words transcribed, translated and glossed
- => all data is archived at the Endangered Languages Archive (ELAR)

Typological profile of Nllng

- complex phoneme system (incl. 45 clicks), no (?longer) tone
- mainly isolating-analytic
- TAM marking mainly by means of particles
- S V O, constituent order very rigid
- no agreement on verbs
- pro-drop possible for all arguments (but object pro-drop more frequent than subject pro-drop)

Language-specific grammatical relations in NIIng

- subject (SUBJ)
- (direct) object (OBJ)
- indirect object (= dative, DAT)
- prepositional arguments and adjunct

Participant marking

- Subject and direct object
 - SBJ:
 - no need to distinguish between S and A
 - two types of subject (unmarked vs. followed by *ke/-a*) do not concern valency
 - both SBJ and OBJ unmarked for case
 - · SBJ and OBJ differentiated by relative position to the verb
 - SBJ: preverbal
- (1) *na si lhaa ku*

1SG IRR kill 3H.SG

ʻl will kill him.'

Indirect object (DAT)

- postverbal
- precedes the OBJ
- marked by NP-final dative suffix -a; sometimes additionally followed by the postposition i
- (2) na aa **+huin-a** llai-ke
 - 1SG give dog.PL-DAT bone.PL-PL

'I give the bones to the dogs.'

- Prepositional arguments and adjuncts
 - · follow all other grammatical relations
 - · marked by one of only three prepositions
 - comitative-instrumental (COM/INS) nla
 - similative (SIM) //aa
 - multi-purpose oblique (OBL) ng
 - Comitative-instrumental *n/a* ('with'):
 COM/INS: comitative:
 - (3) si Iqoqon, Iqoqon nla Ilhailaa
 1PL.EXCL dance dance with girl
 'We dance, (we) dance with the girl.'

COM/INS: instrumental:

- (4) *too laa pree nla ntona*man cut bread with knife
 'The man cuts the bread with the knife.' (elicited)
- Similative //aa ('like'):
 - (5) ha !xaru llaa !qoeki
 3SG snore like lion
 'He snores like a lion.'
 - (6) kinn ke llu ‡xoa llaa si
 3PL ? NEG speak like 1EXCL.PL
 'They don't speak like us.'

Multi-purpose oblique ng

- can code a wide range of semantic roles, e.g. location, goal, source, time, addressee, cause etc.
- (7) ng xa !xoo-a ng Glui
 1SG PST grow-?PFV OBL place.name
 'I grew up at Glui.'
- (8) *too saa ng gllaa* man come OBL night
 'The man comes at night.'

- (9) na hoo ng g!ari
 1SG come.from OBL place.name
 'I come from Upington.' (elicited)
- (10) na si kx'uu o'ui'i ng haqa'iki
 1SG IRR do be.sick OBL heat
 'I will get sick from the heat.' (elicited)
- (11) kua xng kx'uu llhabe-a blom-ke ng lkhaa
 3SG PST make wet-?PFV flower-PL OBL water
 'He has watered the flowers.' (= 'He has made the flowers wet with water.') (elicited)

Valency in NIIng studied within the "The Leipzig Valency Classes Project"

- typological study of "Valency Classes in the World's Languages"
- carried out by Malchukov et al. (MPI EVA, Leipzig)
- comparison of approx. 20 languages, incl. Nllng
- contributors provide the data and fill in a database for "their" language

The database:

 basis: 70 "verb meanings" = semantic concepts, e.g. 'hit', 'die', 'look at', 'appear', 'rain', 'be hungry', 'feel cold' ...

=> see full list on extra handout

- contributors provide information on:
 - · counterpart verbs: the verb (or other lexical item(s)) that expresses the meaning
 - coding frames of counterpart verbs
 - possible valency alternations

Some definitions of the LVCP:

(cf. http://www.eva.mpg.de/lingua/valency/files/database_manual.php#ftn1)

Valency:

"... the **valency** of a verb is the list of its **arguments** with their coding properties (**coding frame**), their behavioural properties (**syntactic-function frame**), and with the relationship of the arguments to the roles in the verb's **role frame**."

Coding properties:

- flagging (case or adposition marking)
 - relevant for NIIng DAT and prepositional arguments
- indexing (agreement, cross-referencing)
 - not relevant for Nllng
- word order (in the absence of other kinds of marking):
 - relevant for Nllng SBJ and OBJ

Coding properties => coding frame:

Examples:

(12) na si Ihaa ku
1SG IRR kill 3H.SG
'I will kill him.'
=> coding frame: SBJ V OBJ

(13) na hoo ng g!ari
1SG come.from OBL place.name
'I come from Upington.' (elicited)
=> coding frame SBJ V OBL

Basic coding frames in NIIng

- "intransitive" frame: SBJ V
 - (14) si !qora1SG.EXCL play'We are playing.'
- "transitive" frame: SBJ V OBJ
 - (15) ng llu llxaea kike
 1SG NEG know 3PL
 'I don't know them'
- "oblique" frame: SBJ V OBL
 - (16) ng hooke ng nlng laeki
 1SG come.from OBL 1SG woman
 'I come from my wife.'

"transitive+dative" frame: SBJ V DAT OBJ

(17) ku aa l'huunsi-a ‡xani-si
3H.SG give Boer-DAT letter-SG
'He gives the the Boer the letter.'

• = "transitive+oblique" frame: SBJ V OBJ OBL

(18) *too ke !'hoe'in mari ng too a ko*man ? ask.for money OBL man this other
'The man asks the other man for money.' (elicited)
(lit:. The man asks for money from/by the other man.'

• "clause-taking" frame: SBJ V Clause

(19) ng ‡'ain u si xuu kike nla kinn nllaa !'aun
1SG think 2PL IRR leave 3PL PURP 3PL stay ground
'I think you must leave them so that they stay on the land.'

• "oblique+clause-taking" frame: SBJ V OBL Clause

(20) ng si ku ng l'huun-si a xa ll'ae !kx'abe-si
 1SG IRR say OBL white.person-SG 2SG PST go.to cream-SG
 'I will say to the Boer (that) you went to the cream.'

Summary: Basic coding frames in NIIng

•	SBJ	V					= "intransitive" frame
•	SBJ	V		OBJ			= "transitive" frame
•	SBJ	V			OBL		= "oblique" frame"
•	SBJ	V	DAT	OBJ			= "transitive+dative" frame
•	SBJ	V		OBJ	OBL		= "transitive+oblique" frame
•	SBJ	V				CLAU	= "clause-taking" frame
•	SBJ	V			OBL	CLAU	= "oblique+clause-taking" frame

Non-basic coding frames

=> (until now,) only found as non-basis (=alternative) frame:

• "dative" frame: SBJ V DAT

(21) ku Ikx'ae ku xainki-a i
3H.SG tell 3H.SG mother-DAT DAT
'He tells his mother.'

"comitative/instrumental" frame: SBJ V COM/INS

(22) maar Ilaa'a Ilaqla'a nla !uubut PROH speak with person'But don't speak with anybody!'

"transitive+comitative/instrumental" frame: SBJ V OBJ COM/INS

(23) *too ke n!ao kuni-si nla lhee* man ? load cart-SG with grass
 'The man loads the cart with grass.' (elicited)

Valency alternations

- in general, valency alternations can be coded or uncoded
- "Prototypes" of valency alternations:
 - Type 1: coded alternations:
 - valency change marked in the predicate example: German passive:
 - (24a) Ich schlage den Mann
 - (24b) Der Mann wird geschlagen.
 - Type 2: uncoded alternations:
 - no marking of valency change in the predicate
 - helpful to distinguish two basic subtypes
 - Type 2a: addition or deletion of an participant example: English "ambitranitive" verbs
 (25a) / eat
 (25b) / eat an apple
 - => patient (=object) can be absent or present

Type 2b: re-arrangement of arguments (arguments coded differently)
example: English "dative shift":
(26a) *I give him a book*.
(26b) *I give a book to the man.*=> recipient either encoded as dative or as prepositional phrase with 'to'

=> less prototypical types possible, e.g. alternations can be of type 2a and 2b at the same time

Valency alternations in NIIng

- in Nllng, all three types of valency alternations exist, but type 2a is the most common
- Type 2a (uncoded, addition or deletion of a participant)
 - S=A ambitransitivity
 - SBJ V

 $\mathsf{SBJ} \lor \mathbf{OBJ}$

(27a) kinn kx'ain'in

3PL laugh

'They laugh.'

- (27b) ha kx'ain'in gllain
 3SG laugh hyena
 'They laugh at the hyena.'
- intransitive <=> oblique

SBJ V

 $\mathsf{SBJ} \lor \mathbf{OBL}$

- (28a) #qoa ke #'unna
 pot ? be.full
 'The pot is full.' (elicited)
- (28b) *ooe ke ≠'unna ng sunn*meat ? be.full OBL fat
 'The meat is full of fat.'

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transitive <=> transitive+oblique
۲
  SBJ V OBJ
  SBJ V OBJ OBL
  (29a) ng
               ll'ama !xoo-si
         1SG buy
                       pipe-SG
         'I buy a pipe.' (elicited)
              ll'ama loaxu
  (29b) na
                              ng
                                    ku
         1SG buy
                      sheep OBL 3H.SG
         'I buy sheep from him.' (elicited)
Type 2b (uncoded, arguments marked differently)
  transitive <=> oblique
•
   SBJ V OBJ
   SBJ V OBL
   (30a) ... nla
                             hoo marisi
                   si
         ... PURP 1PL.EXCL get
                                   money
         '... so that we can get money'
  (30b) nllng‡ee huniki hoo ng ki
                          get OBL 3NH.SG
         people
                   all
         'All people get (some) of it (here: '...of the cake').'
  transitive+oblique <=> transitive+COM/INS
  SBJ V OBJ OBL
  SBJ V OBJ COM/INS
         ‡ia kx'uu !qam
  (31a)
                              'nllngke
         IMP make porridge 3PL.OBL
         'One makes porridge out of them (the seeds).'
  (31b)
         <del>‡</del>00
               ke
                    xng kx'uu-a
                                      nllng
                                              nla
               ?
                    PST make-?PFV house COM stone-PL
         man
         'The man built the house with stones.' (elicited)
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lao-ke

- S=O ambitransitivity
 - shows properties of both type 2a and type 2b
 SBJ V
 SBJ V OBJ
 (32a) dyoo ‡'hubi
 skin burn
 'The skin burns.'
 - (32b) gla +'hubi ki
 2SG.Q burn 3NH.SG
 'Do you burn it (the candle)?'

IMPORTANT:

- not all formally identical alternations are also semantically identical
- example: verbs that occur both in the intransitive and in the transitive frame: SBJ V vs. SBJ V OBL

=> two fundamentally different types of alternations

S=A ambitransitivity **≠** S=O ambitransitivity

=> widely accepted that these are two distinct phenomena (hence the different names)

• but what about S=A ambitransitivity? Is this a homogenous phenomenon?

=> in principle, at least three different alternations are possible:

- SV ⇒ SVO transitivisation?
 SV ⇔ SVO ambitransitivity?
 SVO ⇒ SV detransitivisation?
- => corpus study: How frequent do "ambitransitive" verbs occur in the intransitive or the transitive frame?

frequency alone is not a sufficient criterion for classifying verbs into valency classes, but it can help to get a good impression of the data

- corpus study step 1:
 - all tokens of every verb from the database have been classified in regard to their coding frame

- the most common coding frame(s) have been used to classify the verbs "basic coding frame"
 - dropped arguments, which were clearly identifiable from the linguistic or extralinguistic context have been treated like overt arguments
 - adjuncts do not differ formally from arguments; semantic criteria have been used to assign argument or adjunct status to a given NP
 - => both methods were often easy to apply, but sometimes it was problematic
- results: cf. table on extra handout
- corpus study step 2:
 - for verbs which were classified as "intransitive", "S=A ambitransitive", or "transitive", we compared the number of tokens in the intransitive frame with the number of tokens of the same verb in the transitive frame



results:

- only very few verbs are 100% intransitive or 100% transitive
- (X/Y) = ratio of intransitive and transitive tokens in the corpus
 - intransitive: /'aa 'die' (20/0)
 - transitive: /aa 'cut (0/22)
- some verbs are clearly **S=A ambitransitive**, e.g. they occur frequently both in the intransitive and in the transitive frame
 - *soo* 'sit' (45/24)
 - *ll'aa* 'go away, go to' (34/57)

- other verbs occur both in the intransitive and in the transitive frame, but they show a preference for either the intransitive or the transitive frame
 - mainly intransitive verbs.: transitive use rare but possible, e.g.:
 - !ae 'run' (53/2) => !ae reisies 'run a race'
 - *‡eeke* 'sing' (21/2) => *‡eeke lai* 'sing the *lai* (a traditional song)'
 - *!kx'ora* 'play' (31/3) => *!kx'ora haansi* 'play (to be a) horse'
 - mainly transitive verbs, e.g.:
 - *l'aa* "kill' (2/22)
 - *‡aqake* 'search' (1/26)

when these verbs were used intransitively in the corpus, there was no clearly identifiable object (hence we did not assume pro-drop), but nevertheless, there was a restricted set of possible objects in these contexts:

- intransitive 'kill' => animals which are generally hunted e.g. for meat or fur
- intransitive 'search' => edible plants; food
- some other mainly transitive verbs are used intransitively quite often (with respect to number of tokens), but many of these intransitive tokens are fixed expressions used in conversations:

•	<i>nlaa~nlai</i> 'see' (7/50)								
	(33a) <i>gla</i>	nlai	(33b)	nlaa!					
	2SG.Q	see		see.2SG.IMP					
	'you see)?!'		'look!'; 'pay attention!'					

- //xae(-a) 'know' (8/51)
 (34) g/a //xaea
 2SG.Q know
 'you know?!'
- *xuu* 'leave' (3/20)
 - (35) *xuu-a*

leave-2SG.IMP

'leave (me) alone!'; 'leave it!'; 'don't do that!'

=> verbs do not form a semantic class but rather a "pragmatic class"

Conclusions: "S=A ambitransitive" verbs

- purely formal discussion of verb classes cannot explain different frequency patterns of intransitive and transitive tokens of "ambitransitive" verbs
- semantic (and pragmatic) analysis of different types of formally "ambitransitive" verbs necessary to detect more subtle differences
- => formally identical alternations can represent semantically very different phenomena
- => corpus analysis important to get less prototypical valency frames

the same applies to other formally identical alternations (e.g. the transitive-oblique alternation can probably have different semantic effects etc.)

Valency alternations in Nllng (cont.): type 1 - coded alternations

- benefactive
 - DAT (= beneficiary) is added as a new arument
 - verb frequently (but not always) marked with BEN-suffix -a
 - (36a) *hng kx'uu tcuin* 3PL make fat

'They make fat.'

(36b) hng kx'uu-a l'huun-a nllaen
3PL make-BEN Boer.PL-DAT blanket.PL
'They make blankets for the Boers.'

causative

- · causative marker precedes main verb
- Eastern dialects: causative marker /kx'ui = CAUS
 - (37a) *ng o'ui'i*
 - 1SG be.sick

'I am sick.'

- (37b) a Ikx'ui o'ui'i ng
 2SG CAUS be.sick 1SG
 'You make me sick'
- Western dialect: causative marker kx'uu = 'do,make'
 - (37c) *ha kx'uu o'ui'i ng* 3SG **make** be.sick 1SG 'It (the old age) **makes** me sick.'

directional SVC alternation

- "directional serial verb constructions" consisting of a major verb and a minor verb can be used to express additional participants, e.g. goal or source
- minor verb is frequently
 - a directional motion verb ('go in', 'come', 'go to', 'go out', 'go down') or
 - a verb of (directional) physical transfer ('put in', 'remove')

• 2 subtypes:

• SBJ V => SBJ V V_{minor} OBJ

(38a) *ku !ae* 3H.SG run 'He runs.'

- (38b) a kinn !ae II'aa I'huun
 then 3PL run go.to Boer.PL
 'Then they run to the Boers.'
- SBJ V OBJ => SBJ V V_{minor} OBJ OBL

(39a) a +ae !khaa
2SG pull water
'You pull water (e.g. out of a borehole).'
(39b) +ae l'ee tya kuni-si ng wanis

- pull **put.in** that cart-SG **OBL cart.shed**
 - '(They) pull the cart into the cart shed.'

Valency frames in the "directional SVC" alternation

=> SVCs have their own coding frame!

• directional SVC can have the same coding frame as both single verbs

(40) *loeke ke lae saa*children ? run come
'The children come running'
SBJ run
SBJ come
SBJ run-come

- directional SVCs can have the same coding frame as one of the verbs (either the major or the minor verb)
 - (41) si !ae //'aa Mosplaas
 1PL.EXCL run go.to place.name
 'We run to Mosplaas.'
 SBJ run
 SBJ go.to OBJ
 SBJ run-enter OBJ
 => SVC has the same coding frame as the minor verb
 - (42) *kua ‡aqbe II'aa boek-si*3H.SG throw go.away book-SG
 'He throws the book away.' (elicited)
 SBJ throw OBJ
 SBJ go.away
 SBJ throw-go.away OBJ
 => SVC has the same coding frame as the major verb
 - SVC can have a coding frame different from both the minor and major verb's coding frame

(43) a ke si !xau ll'ae llhaan a ng g!ari
2SG ? IRR carry go.to bag this OBL town
'You must carry this bag to town.' (elicited)
SBJ carry OBJ
SBJ/SBJ go.to OBJ
SBJ carry-go.to OBJ OBL

• Nllng directional SVCs are an important means to express additional participants (especially goal or source arguments)!

Serial verb constructions (SVCs) as valency changing device?

•

Should the directional SVCs really be regarded as valency changing strategy?

- flagging (case marking and prepositions) are an important part of the coding frame; function of minor verbs in the NIIng directional SVC is very similar to the function of prepositions or case marking in other languages
- directional SVC are quite productive (they can be used when semantics allow it)

- directional SVC are structurally similar to the causative alternation: in the Eastern dialect, a dedicated CAUS marker is used (which might go back to a verb), but in the Western dialect, a transparent SVC with the verb 'do, make' is used
- => the NIIng directional SVCs are not a prototypical case of a valency changing strategy, but they share some important features with them

Abbreviations:

BEN – benefactive; COM – comitative; DAT – dative; EXCL – exclusive; H – human; IMP – impersonal; INCL – inclusive; INS – instrumental; IRR- irrealis; NH – non-human; OBL – multi-purpose oblique; OBJ – object; PFV – perfective; PL – plural; PROH – prohibitive; PURP – purposive; PST – past; Q – question; SBJ – subject; SG – singular; SIM – similative; TF – term focus