

Tense agreement in Ndebele light-verb constructions

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ACAL 48, Bloomington, 3/29-4/2 2017

1 Introduction

- Ndebele uses a class of light verbs (LVs) to express adverbial meanings (e.g. *qala* ‘do first’, *phose* ‘almost do’, *ze* ‘finally do’, *mane* ‘simply do’)
- The main, lexical verb appears with **subjunctive mood morphology**¹

- (1) Ngi-qala ngi-pheke.
1sg-first.**pres** 1sg-cook.**pres.sbjv**
‘I first cook’
Present → *Present Sbjv*
- (2) Ngi-qalé ng-aphéka.
1sg-first.**pst** 1sg-cook.**pst.sbjv**
‘I first cooked’
Past → *Past Sbjv*

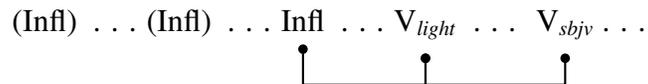
- The subjunctive verb co-varies with matrix tense (present subjunctive or past subjunctive)

Examining Ndebele LV-constructions, I argue that:

- Tense agreement is a relation which need not involve T heads
- It is an instance of Infl-agreement – an independently motivated mechanism
- The main constraint that governs tense/Infl-agreement is locality

PROPOSAL:

Tense agreement in Ndebele is agreement between the subjunctive verb and the closest inflectional head:



PLAN:

- 2 Tense agreement in Ndebele and Sequence of Tense
- 3 Analysis: tense agreement as an instance of Infl-agreement
- 4 Evidence for locality: intervention by lower Infl
- 5 Conclusion

¹ Abbreviations: FS = final suffix, FUT = future, PRES = present, PST = past, SBJV = subjunctive

- CP: only Clausal Subjunctives can be introduced by a complementizer

- (8) a. Ngi-m-funa [**ukuthi** a-bale.] *Clausal Subjunctive*
 1sg-1o-want COMP 1-read.sbjv
 I want him to read.
- b. U-qala [(***ukuthi**) a-bale.] *Small Subjunctive*
 1-first (*COMP) 1-read.sbjv
 He first reads.

- TP: only Clausal Subjunctives can have a preverbal subject (in Spec,TP)

- (9) a. Ku-fanele [ukuthi **uZodwa** abale.] *Clausal Subjunctive*
 17-must COMP 1Zodwa 1.read.sbjv
 ‘Zodwa must read’.
- b. *Ku-qala [**uZodwa** abale.] *Small Subjunctive*
 17-first 1Zodwa 1.read.sbjv
 (‘Zodwa first reads’)

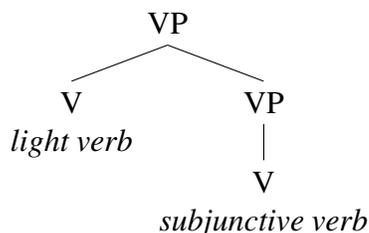
- PerfP: only Clausal Subjunctives can express Perfect aspect

- (10) a. Ngi-m-funa [ukuthi a-be e-balile.] *Clausal Subjunctive*
 1sg-1o-want COMP 1-aux.sbjv 1-read.**perf**
 I want him to be done reading.
- b. *U-qala [a-be e-balile.] *Small Subjunctive*
 1-first 1-aux.sbjv 1-read.**perf**

- AspP: only Clausal Subjunctives can express imperfective aspect

- (11) a. Ngi-m-funa [ukuthi a-be e-bala.] *Clausal Subjunctive*
 1sg-1o-want COMP 1-aux.sbjv 1-read.**impf**
 I want him to be reading.
- b. */? U-qala [a-be e-bala.] *Small Subjunctive*
 1-first 1-aux.sbjv 1-read.**impf**

- (12) Ndebele small subjunctives are selected by aspectual light verbs



⇒ Small Subjunctives do not contain a TP

- Tense agreement in the two types of subjunctive complements:

(13) *Small Subjunctive: tense agreement*

- a. U-qala a-bale. *Present → Present Subjunctive*
 1-first.**pres** 1-read.**pres.sbjv**
 He first reads.
- b. U-qalé w-abala/*a-bale. *Past → Past Subjunctive*
 1-first.**pst** 1-read.**pst.sbjv**/*1-read.**pres.sbjv**
 He first read.

(14) *Clausal subjunctive: no tense agreement*

- a. Ngi-m-funa ukuthi a-bale. *Present → Present Subjunctive*
 1sg-1o-want.**pres** COMP 1-read.**pres.sbjv**
 I want him to read.
- b. Ngi-a-m-funa ukuthi a-bale/*w-abala. *Past → Present Subjunctive*
 1sg-**pst**-1o-want COMP 1-read.**pres.sbjv**/*1-read.**pst.sbjv**
 I wanted him to read.

- Clausal Subjunctive contains a T projection but shows no tense agreement with higher tense
- Small Subjunctive does not contain T but it *does* show tense agreement with higher tense

WHAT WE NEED:

an account of tense agreement that does not require making reference to a lower T head

3 Analysis: tense agreement as an instance of Infl-agreement

PROPOSAL:

morphological tense agreement in Ndebele Small Subjunctives is not a dependency between Ts, but between local heads in the clausal spine

3.1 The mechanism of Infl-valuation

- every verb has an unvalued Infl feature
- every inflectional head (e.g. T, Asp) has a valued Infl feature
- Agreement between Infl-features results in downward valuation (Adger, 2003; Bjorkman, 2011; Wurmbrand, 2011)

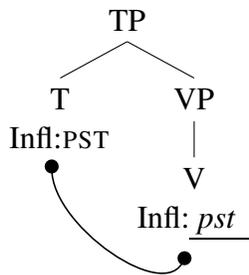
(15) The Infl-inventory in Ndebele

[_T⁰ Infl:PAST/FUT/PRES² [_{Perf}⁰ Infl:PAST [_{Asp}⁰ Infl:IMPF [_v⁰ Infl:___]]]]]

² The present tense has actually be argued to be unmarked in Ndebele and modeled as absence of Infl on T (Pietraszko, 2016). This detail is not crucial here and I use [Infl:PRES] for clarity.

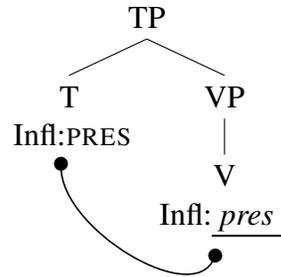
(16) Simple Past:

U-∅-bal-ile.
1-pst-read-FS.pst
'He read'



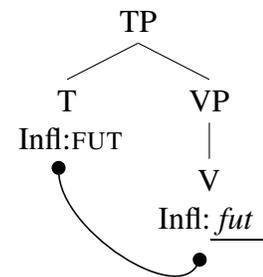
(17) Present tense:

U-ya-bal-a.
1-pres-read-FS
'He is reading'



(18) Future Tense:

U-za-bal-a.
1-fut-read-FS
'He will read'



3.2 Infl-agreement in Small Subjunctives

(19) Non-past → Present Subjv

a. Ngi-qala ngi-pheke.
1sg-first.**pres** 1sg-cook.**pres.sbjv**
'I first cook'

b. Ngi-za-qala ngi-pheke.
1sg-**fut**-first 1sg-cook.**pres.sbjv**
'I will first cook'

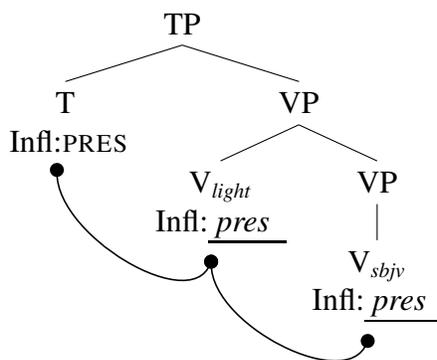
(20) Past → Past Subjv

a. Ng-á-qala ng-aphéka.
1sg-**Dpst**-first 1sg-cook.**pst.sbjv**
'I first cooked (long ago)'

b. Ngi-qal-é ng-aphéka.
1sg-first-**Rpst** 1sg-cook.**pst.sbjv**
'I first cooked (recently)'

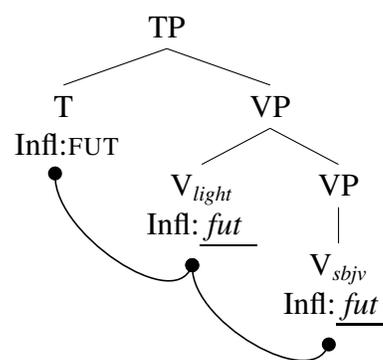
- Both the light verb (V_{light}) and the subjunctive verb (V_{subjv}) have a [Infl:___]
- An agreement relation can be established between two unvalued features (Pesetsky & Torrego, 2007)

(21) Present tense ((19)-a):



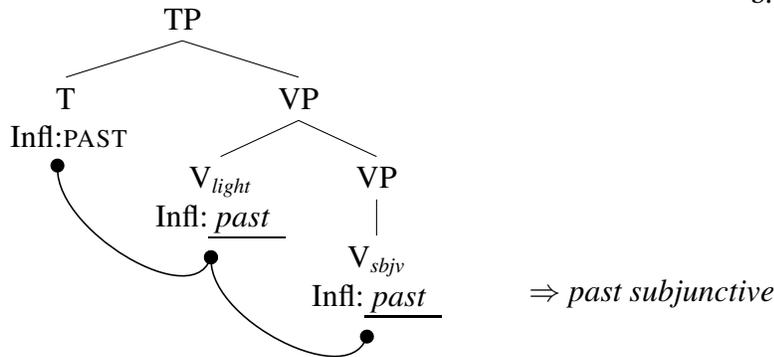
⇒ present subjunctive

(22) Future tense ((19)-b):



⇒ present subjunctive

(23) Past tense ((20)):

(24) a. [PAST, SBJV] ↔ *past subjunctive*b. [SBJV] ↔ *unmarked/default subjunctive*

3.3 Independent motivation for Infl-agreement: periphrasis

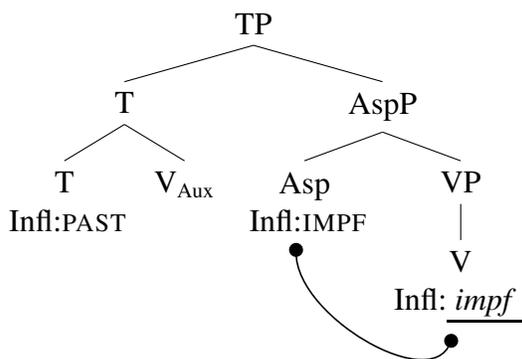
- Infl-agreement plays a role in verbal periphrasis:

- If there is more than one valued Infl, the verb will agree with the more local one

- the higher Infl is supported by an auxiliary

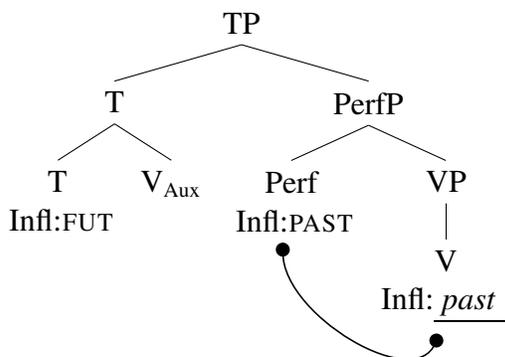
(Cowper, 2010; Bjorkman, 2011)

(25) Past imperfective (Infl:PAST, Infl:IMPF):



U-∅-be e-bála
 1-**pst**-aux 1-read**impf**
 ‘He was reading’

(26) Future Perfect (Infl:FUT, Infl:PAST):



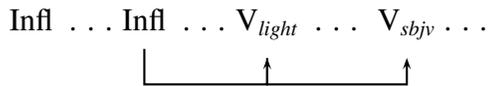
U-za-be e-bal-ile
 1-**fut**-aux 1-read**pst**
 ‘He will have read’

INDEPENDENT MOTIVATION FOR INFL-AGREEMENT:

Together with locality conditions, it determines which inflection is realized on the main verb, and which is supported by an auxiliary.

4 Evidence for locality: intervention by lower Infl

(27) Tense agreement in Ndebele is an instance of Infl-agreement \Rightarrow Agreement with the closest Infl



4.1 Past subjunctive blocked by a local Infl

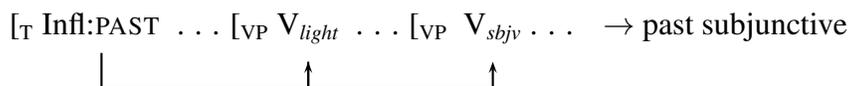
- In Simple Past, the subjunctive V co-varies with past tense

(28) U- \emptyset -qalé [w-abala/*a-bale] Past T \rightarrow past subjunctive
 1-**pst**-first 1-read.**pst.sbjv**/*1-read.**pres.sbjv**
 ‘He first read’

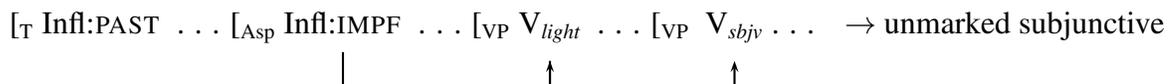
- In Past Imperfective, the subjunctive V does **not** co-vary with past tense

(29) U- \emptyset -be e-qala [a-bale/*w-abala] Past T \rightarrow **unmarked** subjunctive
 1-**pst**-aux 1-first.**impf** 1-read.**pres.sbjv**/*1-read.**pst.sbjv**
 ‘He was reading first’

(30) a. Simple Past: Agreement with T



b. Past Imperfective: Agreement with Asp



4.2 Unmarked subjunctive blocked by a local Infl

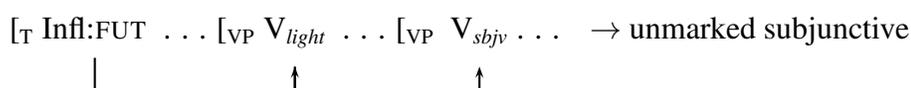
(31) Ngi-ya-qala [ngi-pheke/*ng-apheka]
 1sg-**fut**-first 1sg-cook.**pres.sbjv**/*1sg-cook.**pst.subj**
 I will cook first

- Perfect aspect is a type of past tense

(Hoffman, 1966; McCawley, 1971; Klein, 1992; Cinque, 1999; Arregi & Klecha, 2015; a.o.)

(32) Ngi-za-be ngi-qal-é [ng-apheka/*ngi-pheke]
 1sg-**fut**-aux 1sg-first-**perf** 1sg-cook.**pst.sbjv**/*1sg-cook.**pres.subj**
 I will have cooked first

(33) a. Simple Future: Agreement with T⁰



b. Future Perfect: Agreement with Perf⁰

[_T Infl:FUT . . . [_{Perf} Infl:PAST . . . [_{VP} V_{light} . . . [_{VP} V_{sbjv} . . . → past subjunctive

- Tense agreement in Ndebele is a relation between the subjunctive V and the closest inflectional category;
- it is **not** a direct relation between the subjunctive V and T

5 Conclusion

- Ndebele light-verb constructions exhibit tense agreement patterns which cannot be accounted for by mechanisms proposed for SOT-type tense agreement
- It is a dependency that need not involve any T heads
 - The lower T is absent in Ndebele Small Subjunctives
 - The higher T does not control agreement on the subjunctive verb in compound tenses
- Tense agreement is an instance of Infl-agreement – an independently motivated mechanism, which
 - does not rely on manipulating T heads
 - and derives the Infl-intervention effects in compound tenses from locality.

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