

BINDING OF CLITIC AND NON-CLITIC PRONOUNS IN OSSETIC*

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In this talk, I will

- Describe classes of noun phrases w.r.t. their binding properties in Ossetic
- Advance a conjecture about cross-linguistic binding properties of bound possessive pronouns

1. CLASSICAL BINDING THEORY

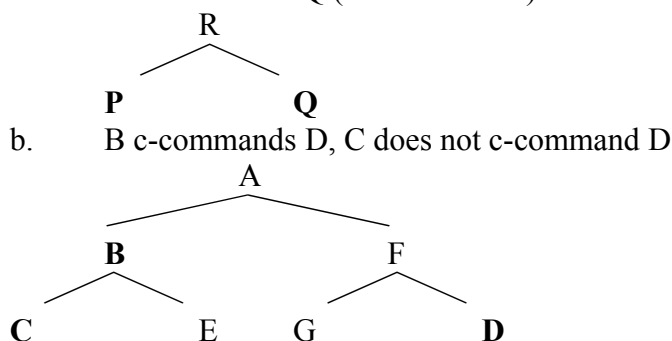
CHOMSKY (1981, 1980); REINHART (1983)

Syntactic binding: NP_1 syntactically binds NP_2 , if they are coindexed and NP_1 c-commands NP_2

- co-indexed: roughly speaking, refer to the same linguistic entity
- c[onstituent]-command: a relationship between tree nodes:

A c-commands B, if any node dominating A dominates B as well, and neither of them dominates the other.

(1) a. P c-commands Q (and vice versa)



Three classes of nominals:

R-EXPRESSIONS (dog, cat, President of Ruritania *etc*)

PRONOMINALS (I, you, her *etc*)

ANAPHORS (herself, each other *etc*)

BINDING CONDITIONS:

CONDITION A An anaphor must be bound in its local domain.

CONDITION B A pronominal must be free in its local domain.

CONDITION C An R-expression must be free.

- **A CHALLENGE:** Cross-linguistically, there are grounds to define more classes of nominals and of binding domains.

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- An alternative: to recognize that each language has its own classes of nominals, and that each class satisfies an appropriate binding condition. However, the format of such condition is universal.

General format of a binding principle (Büring 2005):

- ❖ A nominal of class X must be bound/free in its domain
- ❖ Description of the domain

- Disclaimer: It is still an oversimplification, but one much better approximating the reality.
- I will not discuss more drastic modifications, like Pollard & Sag (1992) and Reinhart & Reuland (1993): their main thrust is to cope with some intricacies of the English reflexive binding.

2. OSSETIC

- Two closely related Eastern Iranian idioms: Iron and Digor
- Examples will be mostly from Digor. As far as I know, the two idioms are identical as to their binding properties.
- Consistently head-final (although the constituent order in affirmative clauses is in principle fairly free)
- No grammatical gender (a convenient feature for creating binding ambiguities)
- Minimal evidence for the existence of the VP, no evidence I am aware of for a non-flat structure of VP
- Normally nominative subjects, no ergativity, the verb only agrees with the subject:

- (2) *æz ječi æχca g^wesχan-mæ ravard-ton*
 I.NOM that money G-ALL give.PST-PST.1SG
 ‘I gave Gwashkan that money.’ Aghuzarti A.

- Few verbs with “weird” semantic role – syntactic function relationship:
 ‘to want’: the wantee in the oblique, forms other than 3SG do not exist.

- (3) a. *aχur kæn-un = ba = dæ qeβer fænd-uj*
 learning do-INF=CTR=ACC.2SG very want-PRS.3SG
 ‘But you very much want to learn.’ Aghuzarti A.
- b. *wyj = mæ fænd-y (Iron)*
 it=ACC.1SG want-PRS.3SG
 ‘I want it.’

‘to need’ the needer in the oblique, the needee is the nominative subject:

- (4) *mæ = suvellantt-i kæv-un*
 POSS.1SG=kid-PL-OBL need-PRS.1SG
 ‘My children need me.’

‘to succeed in doing something’: the logical subject is in the dative:

- (5) *ermæst = in nebal bantast-æj ječi kuddag*
 only=DAT.3SG no.more succeed-PST.3PL that thing
 ‘But he had never managed to do that any more.’ Aghuzarti A.

Dative-marked logical subjects in certain copular constructions

- (6) a. *wazal = min ej*
 cold=DAT.1SG be.PRS.3SG
 ‘I am cold.’
- b. *mæn-æn cæv-en næ jes*
 I.OBL-DAT go-NMZ NEG exists

‘I cannot go.’ Maliti V.

3. INVENTORY OF NOMINALS IN OSSETIC

- Lexical noun phrases, various indefinites...
- Reciprocal pronouns
- Reflexive pronouns
- Full personal pronouns
- Argumental enclitics
- Possessive proclitics / prefixes

3.0 LEXICAL NOUN PHRASES (AKA R-EXPRESSIONS)

- Must be free in their sentence, nothing unexpected.

3.1 RECIPROCALLS

Iron *kæŕæzi*, Digor *kæŕædže*-

Remark Its etymology is obscure, apparently it is a loanword. To have a loanword for a reciprocal is not that unusual, for instance, many Pamiri languages use the Tajiki word *amdigar* (Sokolova 1960 for Bartangi, Bashir 2009 for Wakhi)

Possess all case forms except the nominative.

- Binding conditions:

Totally well-behaved (provided we accept the fact that VP in Ossetic is flat).

Reciprocals have to be bound by something c-commanding them:

- (7) a. *soslan ema medin-en ne bantastej*
S and M-DAT NEG succeed
kæŕædže-j balæder-un
each.other-OBL understand-INF
each.other-OBL understand-INF
- b. **kæŕædžem-en ne bantastej*
each.other-OBL NEG succeed
soslan ema medin-i balæder-un
S and M-OBL understand-INF
‘Soslan and Madina did not manage to understand each other.’

The binder can be any case-marked NP, but not the complement of an adposition:

- (8) a. *kizgutt-i kæŕædžem-en bavdiston*
girls-OBL each.other-DAT I.showed
girls-OBL each.other-DAT I.showed
- b. *kæŕædže-j kizgutt-en bavdiston*
each.other-OBL girls-DAT I.showed
‘I showed the girls to each other.’
- c. *soslan ema medin-en ene kæŕædžem-ej cæren*
S. and M-DAT without each.other-ABL live-NMZ
ne j
NEG be.PRS.3SG
- d. **kæŕædžem-en ene soslan ema medin-ej cæŕ-en*
each.other-DAT without S and M-ABL live-NMZ
ne j
NEG be.PRS.3SG

3.2 REFLEXIVES

3.2.1 Morphology

- simplex reflexives: self-case

- (9) a. [*xe-cvj eppæl-un*] = *ba womej egadæ-der ej*

self-ABL praise-INF=CTR it.ABL shameful-COMPIS
 ‘But to praise oneself is more shameful than that.’ Iræf

- complex reflexives: possessive clitic = self-case *mɛ=χe-cən* ‘myself.DAT’
- The distribution of simplex and complex forms has nothing to do with binding proper.
- The latter are much more common, and it is their behavior that I will discuss.

Similarly to the reciprocals, reflexives can be bound by any NP argument of the verb:

(10) a. *ɜ_i=χe-mɛ* *soslan-i_i* *bavdiston*
 POSS.3SG=self-ALL S-OBL I.showed

b. *soslan-mɛ_i* *ɜ_i=χe* *bavdiston*
 S-ALL POSS.3SG=self I.showed
 ‘I showed Soslan_i to himself_i.’

However, the subject has a priority as a binder:

(11) *mistɛ_i* *χefš-i_j* *ɛnɛ* *ɜ_{i/*j}=χe-cɛj*
 mouse frog-OBL without POSS.3SG=self-ABL
cɛr-un *nɛ* *waʒ-uj*
 live-INFNEG let-PRS.3SG

‘The mouse_i does not let the frog_j to live without itself_{i/*j}.’

- I am leaving aside the lexicalized uses of the allative of reflexives that can be used as a noun ‘at home’ (cf *chez nous*) and as adjectives meaning ‘my/our/their kind of, local, indigenous’ (cf Russian *свойский, нашеньский* etc):

(12) a. ‘at home’
cuma *sɛ=χe-mɛ* *divan-bel* *ɛvduld-ɛj*
 as.if POSS.3PL=self-ALL couch-SUP sprawl.PST-PST.3PL
 ‘As if he was sprawling on a couch at home.’ Maliti V.

b. ‘local’
duwɛ *nɛχe-mɛ* *χwenχag* *sɛw* *furk’a-j*
 two POSS.1PL=self-ALL alpine black ram-OBL
 ‘two local mountain black young rams’ Sabajti S.

- Bad news: Some speakers also allow non-bound reflexives:

(13) a. *ɛnɛ* *mɛ=χe-(cɛj)* *ma* *rajdajetɛ!*
 without POSS.1SG=self-ABL NEG.IMP begin.IMP.2PL
 ‘Don’t begin (it) without me!’

b. *ɛnɛ* *jɛ=χi-(sɛj)* *mɛ* *rajdajut* (Iron)
 without POSS.3SG=self-ABL NEG.IMP begin.IMP.2PL
 ‘Don’t begin (it) without him!’

- The variants with the regular personal pronoun are grammatical as well (and some speakers judge only them possible):

(14) *ɛnɛ* *mɛn-ɛj* *ma* *rajdajetɛ!*
 without I.OBL-ABL NEG.IMP begin.IMP.2PL
 ‘Don’t begin (it) without me!’

- But to some extent this phenomenon exists in other languages too (Pollard & Sag 1992; Reinhart & Reuland 1993), so this a (not very well-understood) problem anyway.
- Upshot: reflexives and reciprocals behave as they are expected to, provided we accept the fact that VP is flat.

4. PERSONAL PRONOUNS: INDEPENDENT AND ENCLITIC

- Clitics are drastically more frequent than full pronouns.

4.1 ENCLITICS

- Within a simple clause, pronominal enclitics must be free (15a), however, when the clitic sits in a dependent clause, the preferred binder is the subject of the matrix clause (15b):

- (15) a. *biččew_i = ej_{*i/j} winuj ajdenemə*
 boy=ACC.3SG looks mirror-ALL
 ‘The boy watches him/*himself in the mirror.’
- b. *biččew-i_i fenduj [v = χ^werə_j = ej_{i/*j/?k}]*
 boy-OBL wants POSS.3SG=sister=ACC.3SG
kud fa-wwine ajden-i] woj
 CPL PRV-see.SUB.FUT.3SG mirror-OBL COR
 ‘The boy_i wants his sister to watch him_{i/?k}/*herself in the mirror.’

- Nevertheless, choosing a binder earlier in the discourse is possible when required by the context:

- (16) *ramazan = ni rakurda cəməj = ej*
 R=ABL.1PL asked CPL=ACC.3SG
ra-jjev-en k’osta-j tala-tə-bəl
 PRV-change-SUB.FUT.1PL K-OBL seedling-PL-SUP
 ‘Ramazan asked us to change it (the title of a school newspaper) into “Kosta’s seedlings”.’ M. Isaev

CONCLUSION: Enclitic behave as pronominals should do.

4.1 INDEPENDENT PRONOUNS

The binding domain for personal pronouns is the sentence, rather than the minimal clause:

- (17) *Medinə-mə_i wotə kesuj [cuma je_{*i/j} mə = zərde-mə cəwuj]*
 M-ALL so looks as.if (s)he POSS.1SG=heart-ALL goes
 ‘Madina_i thinks that I like him/her_{*i/j}.’

AN APPARENT CONTRADICTION: 3sg pronoun in the capacity of a correlative (and this is the most common use of 3sg pronouns in Ossetic)

FACT Ossetic complex clauses normally use the correlative strategy: for instance, in (17) *wotə* is a correlative.

In the capacity of correlative, the pronoun is co-indexed with the dependent clause (18a), or a constituent in the dependent clause (18b)

- (18) a. *[tukd ke rajdədta]_i woj_i nə ləder-ətə*
 war CPL began it.OBL NEG you.understand
 ‘You don’t understand that a war has begun.’ Maliti V.
- b. *rəštdžijnadə [či fendag-bəl]_i agurda*
 truth what path-SUP sought
womej_i festemə ra-zdeχ-a?
 it.ABL back PRV-turn-SUB.FUT.3SG
 ‘Would he turn back from the path upon which he looked for the truth?’

ACTUALLY, NO CONTRADICTION: the correlative pronoun sits in the main clause and thus is not c-commanded by anything in the dependent one.

4.3 POSSESSIVE PRONOUNS

4.3.1. “Full possessive pronouns”:

Like argumental pronouns, full possessive pronouns must be free in their minimal clause:

- (19) **mən šinχon-i nə warz-un*
 I.OBL neighbor-OBL NEG love-PRS.1SG

4.3.2 POSSESSIVE PREFIXES

(20) (vz) *me = šinχon-i* *ne warz-un*
 I POSS.1SG=neighbor-OBL NEG love-PRS.1SG
 ‘I don’t love my neighbor.’

(21) a. *soslan_i rustam-en_j ʁ_{i/?*j/?*k}=kiwunugɐ ravardta*
 S r-DAT POSS.3SG=book gave
 ‘Soslan_i gave his_{i/?*j/?*k} book to Rustam.’
 b. *ʁ_{i/j/k}=furt soslan-ɐj_i rustam-en_j p’ismo ɐrbaxasta*
 POSS.3SG=son S-ABL r-DAT letter brought
 ‘His_{i/j/k} son brought a letter from Soslan_i to Rustam_j.’

5. Why is there such a difference?

- It is likely that when a clause-mate binder was present, the possessive pronoun had to be reflexive. This is so in attested examples from Middle Iranian languages:

(23) Khotanese Saka (Jātakastava Dresden 1955: 431, v. 67 16r 1)
ttina rruste ba'ysa si' hvi hi:ya dasta
 with.that lost Buddha this human self hands
 'Thereby the man lost, O Buddha, his hands.'

- (24) Wakhi
- | | | | | | |
|----|----------------|------------|----------------|-------------|-------------|
| a. | <i>uz = um</i> | <i>xat</i> | <i>xi/?*ži</i> | <i>χuni</i> | <i>xitk</i> |
| | I=PST.1SG | self.EMP | self/my | house | build.PST |
- Shughni
- | | | | | | |
|----|----------------|--------------|---------------|------------|-------------|
| b. | <i>uz = um</i> | <i>χubaθ</i> | <i>χu/*mu</i> | <i>čid</i> | <i>mizd</i> |
| | I=PST.1SG | self.EMP | self/my | house | build.PST |
- ‘I built my house myself.’

- Conclusion: Some of the functions of reflexives have been taken over by possessive proclitics/prefixes
- I have earlier advanced a conjecture (Erschler 2009) that, first, possessive proclitics are close to prefixes, and, second, that the emergence of possessive proclitics is a contact-induced development (specifically, an outcome of West Caucasian influences).
- Specifically, at some point in the history, enclitics to the preceding constituents got re-analyzed into proclitics.
- Simultaneously, they acquired new binding properties.
- WHY???

- A cross-linguistic observation:

Non-independent possessive pronouns have a stronger propensity to be bound than independent ones:

- A few case studies

5.1. Finnish: Possessa carry obligatory possessive suffixes (see arguments for this interpretation in Nevis (1984) and Kanerva (1987) and may be additionally marked by independent possessive pronouns.

(25) a. Independent possessive pronoun present: disjoint reference

Pekka näkee hänen ystävä-nsä

Pekka sees his/her friend-3SG

Pekka_i sees his/her_{i/j} friend.

b. Only possessive suffix: conjoint reference

Pekka näkee ystävä-nsä

Pekka sees friend-3SG

‘Pekka_i sees his_{i/*j} friend.’

Toivonen (2000: 584)

Remark This effect is not observed in the 1st and 2nd persons, but these are known to be able to show a different binding behavior.

5.2. North Saami (Toivonen 2000: 606)

Possessive suffixes must be bound

(26) a. *mun gulan beatnaga-n*

I hear dog-1SG

‘I hear my dog.’

b. **mun gulan beatnaga-t*

I hear dog-2SG

intended reading: ‘I hear your dog.’

c. *mun gulan du beatnaga.*

I hear your:SG dog

‘I hear your dog’

5.3. Georgian

Very few nouns in Georgian may carry a possessive suffix, which is phonologically imilar to the independent pronoun. However, its binding properties are different:

(27) Nino Amiridze, p.c.

a. independent possessive pronoun: disjoint coreference with the subject

nino-m_i bavšv-i_j mis_{i/j/k} deda-s anaxa

Nino-ERG child-NOM his/her mother-DAT showed

‘Nino_i showed the child_j to her_{i/j/k} mother.’

b. possessive suffix: allowed to be bound by the subject

nino-m_i bavšv-i_j deda-mis_{i/j/k} a-nax-a

Nino-ERG child-NOM mother-POSS-DAT showed

‘Nino_i showed the child_j to her_{i/j/k} mother.’

5.4. Standard Persian¹

- Independent pronouns in ezafe or possessive suffxes/enclitics.

Possessive suffix can be bound, whereas the pronoun in the ezafe construction cannot:

(28) a. ^{ok}*mæn ašeke gorbe-æm hæstæm*

I love cat-1SG AUX.1SG

‘I love my cat.’

b. **mæn ašeke gorbe-ye mæn hæstæm*

I love cat-EZF I AUX.1SG

¹ I thank Dara Fourouzan for these data.

Idem (intended reading)

- c. ^{ok}to ašeke gorbe-ye mæn hæsti
 you love cat-EZF I AUX.2SG
 ‘You love my cat.’
- d. ^{ok}to ašeke gorbe-æm hæsti
 you love cat-EZF AUX.2SG
 ‘You love my cat.’

Thus the behavior of Persian possessive suffixes is identical to that of Ossetic possessive prefixes, although the emergence of the both is clearly independent developments.

Final questions:

- Is this a valid cross-linguistic observation?
- If so, what is its mechanism?

6. CONCLUSION

In their binding properties:

- Reflexives and reciprocals behave as usual anaphors
- Full pronouns pattern with R-expressions
- Argument clitics pattern with pronominals
- *Cf* “The environments where a pronoun must be free are thus much more restricted than the environments where an anaphor can be bound. Furthermore, they do not appear to vary with languages” Reinhart, Reuland 1993
- It looks like they do...
- Possessive clitics are neutral between anaphors and pronominals

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Glosses

ABL ablative; ACC accusative; ALL allative; AUX auxiliary; COMP comparative degree; COR correlative; CPL complementizer; CTR contrastive topic marker; DAT dative; DEF definite; EMP emphatic; ERG ergative; EZF ezfafe; FUT future; IMP imperative; INF infinitive; NEG negative; NMZ nominalizer; NOM nominative; OBL oblique; PL plural; POSS possessive; PRS present; PRV preverb; PST past; SG singular; SUB subjunctive; SUP superessive