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Pronouns, Reflexives and Binding in Ao

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Abstract

This paper begins by a detailed description of the nature pronouns and reflexives in Ao, a Tibeto-Burman language spoken in Nagaland. Besides reflexives and pronouns, we will discuss elements such as verbal reciprocal and emphatic reflexives which has no independent reference of its own but rather dependent on an entity within (antecedent) or outside the sentence. It will also examine in brief the binding possibilities following the binding theory (Chomsky 1981).

Keywords: reflexive, anaphor, reciprocal, co-indexed, binding

1. Introduction

Reflexives are used to describe a verb or a construction where the subject and the object refer to the same entity. In government and binding theory, reflexives, together with NP-traces and PRO are classified as a class of NPs (Noun Phrase) known as Anaphors. Languages like English uses a set of reflexive pronouns to express the relationship where subject and object refers to the same person. There are also languages using case, affixes and word order to elaborate such relation between the subject and the object.

2. Reflexives

Like many languages, the most noticeable set of anaphors in Ao are the reflexive pronouns. The reflexive pronouns have no independent reference but refer to some other constituent (antecedent) in the sentence. The reflexives agree in person, number and gender with the antecedent. The reflexive pronoun has the form Possessive pronoun + self + personal pronoun. The table below presents the reflexive pronoun in Ao.

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Table1: Reflexive Pronoun in Ao

Person	singular	Dual	Plural
1	kə-sasa-ni	kəna-sasa- kəna (excl) əna-sasa- əna (incl)	asenok-sasa-asenok
2	nə-sasa-na	nəna-sasa- nəna	nenok-sasa-nenok
3	pa-sasa- pa(mas/fem) la-sasa-la(fem)	təna-sasa- təna	parnok-sasa-parnok

These reflexives can occur in the direct object as well as indirect object position. The anaphor in the direct object position is marked patientive/accusative and indirect position is marked dative. The following examples are illustrative:

- moaba-i pa-sasa pa aŋu
 moaba-AGT he-self-he saw
 'Moaba saw himself.'
- moaba-i pa-sasa pa daŋiʃitizəlu
 moaba-AGT he-self-he datleter wrote
 'Moaba wrote a letter to himself.'

3. Emphatic Reflexive

Ao has emphatic reflexive; emphatic reflexives are modifiers and they do not occur in NP positions; they simply emphasize their antecedents. Since they do not occur in NP positions they are no case marked.

Table 2: Emphatic Reflexive in Ao

Person	singular	Dual	Plural
1	kə-sasa	kəna-sasa- (excl)	asenok-sasa
		əna-sasa (incl)	
2	nə-sasa	nəna-sasa	nenok-sasa
3	pa-sasa(mas/fem)	təna-sasa	parnok-sasa
	la-sasa(fem)		

In the sentence below 'la-sasa' serves as a emphatic. It cannot occur in an NP position (3). The emphatic can occur with a proper noun without a pronoun (4).

- 3. narola-i la-sasa sə ʃitok narola her-self clothes wash.PST
 - 'Narola herself washed clothes'
- 4. narola-i sasa sə ʃitok narola self clothes wash.PST

The sentences below show the difference of emphatic and anaphor in Ao. The anaphor occurs as an object of the verb 'fitok' (5) whereas the emphatic occurs as a modifier of the subject (6).

5. $pa-i_i$ pa-sasa $-pa_i$ sa $\int itok$ 3sG-AGT he- self- he clothes wash.PST 'He wash self clothes.'

^{&#}x27;Narola herself washed clothes'

6. pa-i_i pa-sasa sə ∫itok3SG-AGT him- self clothes wash.PST'He himself washed clothes'

In colloquial speech the final 'pa' is often dropped. This depends on the context of the utterance; if the listener and the hearer can tell apart between reflexive and an emphatic.

Otherwise, it will be ambiguous between reflexive and an emphatic.

4. Pronouns as Reflexive

The personal pronouns in Ao can occur as anaphor. The anaphor 'pa' occurs in almost all the object positions in a sentence. Thus, the pronominal can occur as an anaphor in the direct and indirect object positions, in locative phrase, and in the experience position. The complex anaphor 'pa-sasa-pa' can occur only in the direct and indirect object position as anaphor. The table below represents the personal pronouns in Ao which are anaphoric:

Table 3: Personal Pronouns in Ao

Person	singular	Dual	Plural
1	ni	kəna (excl)	asenok
		əna (incl)	
2	na	nəna	nenok
3	Pa (mas/fem)	təna	parnok
	La (fem)		

The following examples illustrate pronouns used as anaphor. The subject and the object refer to the same entity:

7. ni-i ni čuna anur ISG-AGT ISG good see 'I see myself good'

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8. na-i na aŋurna 2SG-AGT 2SG see Q

'can you see yourself?"

9. pa-i pa asaŋ
3SG-AGT 3SG praise

'He praise himself.'

5. Nominal Reciprocal

There are two types of reciprocal expressions in Ao: a verbal reciprocal and a nominal reciprocal. The verbal is marked by 'təp' inflected in verb and hence, not an anaphor since anaphor must contain a nominal expression. The nominal reciprocal like reflexive is used to describe a construction where the subject and the object refer to the same entity. The nominal reciprocal is marked dative as illustrated in the sentences below:

11. narola aser moabana-i; ka-i-ka; miemer

Narola and Moaba dual-AGT one-AGT-one love

'Narola and Moaba; love each other;'

6. Word Order of Antecedent - Anaphor

Ao has an unmarked word order of SOV; the marked order is OSV. The following examples are illustrative:

12. moaba-i_i pər ka təpsət

ISG-AGT snake one killed.PST

'Moa killed a snake.'

13. moaba-i_i pa-sasa-pa_i aŋu

ISG-AGT he-self-he see.PST

'Moa saw himself

7.Marked

14. pər ka moaba-i_i təpsət

snake one ISG-AGT killed.PST

'Moa killed a snake.'

However, the anaphor in the object position cannot be scrambled. The word order is rigid in an antecedent-anaphor sentence.

15. *pa-sasa-pa_i moaba-i_i aŋu

he-self-he moaba -AGT see.PST

'Moa saw himself

If the elements in the sentence are to be scrambled, the only possibility is to identify the complex anaphor as two separate words with different functions: 'pa-sasa' as emphatic and 'pa' as anaphor.

16. pa-sasa moaba- i_i pa $_{i/j}$ aŋu

he-self (emphatic) moaba - AGT 3SG see.PST

'Moa himself saw him_{i/j}.'

The constituent as an emphatic can be scrambled but as a complex anaphor it cannot be scrambled to any position. In many South Asian Languages, scrambling of anaphors does not

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affect the antecedent-anaphor relations; however, in Aoscrambling of-anaphor is not permitted

all together.

8. Complex and Simplex Anaphor

Anaphors are distinguished between morpho-syntactically complex and simplex

anaphors (Pica, 1987, Cole, Hermon and Sung 1990, Reinhart & Reuland 1993). A simplex

anaphor contains a single morpheme 'self' and complex anaphor contains two or more

morpheme where one is 'self' and other a pronominal indication person, number, gender. In Ao

the morpho-syntactically complex anaphor is the form pronoun + reflexive+ (Table 1) and the

simplex anaphors are pronouns (Table 2).

9. Binding Possibilities

The goal of the Binding Theory (Chomsky 1981) is to identify the syntactic relationship

between reflexives-anaphors, pronominals and its antecedent. For instance, in the sentences

below there are three NPs distinguished (i) Proper names Mary, John (ii) pronouns her, he (iii)

reflexives himself, herself.

17. Mary admires her

18. Mary saw herself

19. He said that John saw himself

The proper nouns indicate that there is an entity which is identifiable in the universe of

discourse. Pronouns do not select a referent from the universe of discourse; we can conclude that

a pronoun like 'him' is [+male, +singular] but we cannot freely choose an entity which is the

referent of 'he'; 'he' cannot be use for John in (19). In case of reflexives, interpretation of

"herself' in (18) must be dependent on 'Mary'. Hence, there are three principles in Binding

theory (Chomsky 1986) to capture this:

Principle A: An anaphor must be bound in its local domain

Principle B: A pronoun is free within its local domain

Principle C: An R-expression must be free.

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A local domain is a syntactic unit that isclause-like. Reflexive and nominal reciprocal, pronouns have their antecedent within a binding domain that is local. The anaphors in Ao are bound in its local domain. The antecedents and the anaphors are co-indexed within the governing category (co-referred within the clause). This is illustrated in (20) and (21); the sentence contains the complex anaphor 'pa-sasa-pa'in object position, a transitive verb 'anu' and the subject/clausal subject Moaba'. The anaphor is bound by the clausal subject; thus obeying the Principle A.

20. moaba-i_i pa-sasa-pa_i aŋu

ISG-AGT he-self-he see.PST

'Moa saw himself.'

21. [moaba-i_i pa-sasa-pa_i aŋu ta] imliba-i bilem moaba-AGT_i he-self-he_i saw COMP Imliba-AGT think.PST 'Imliba thought that Moa_i saw himself_i.'

The complex anaphors usually have a local antecedent and the simplex anaphor may have both local and non-local antecedent. However, there are also languages like Hmar (Subbarrao 2000), Marathi (Wali 1991) and Oyiya (Ray 1987) where complex anaphor can have a long distance anaphor.

10. Long Distance Binding

The complex anaphor in Ao is bound by a sentence internal antecedent; in other words they are bound within the clause. However, there are reflexives which by bound by antecedents in a higher clause or outside the clause. Long distance binding (LDA) has been observed in languages. Some of the properties of long distance anaphor (LDA) (Koster and Reuland 1981, Yang 1984, Pica1985, 1987) are:

(i) LDA allows antecedent outside the governing category

- (ii) LDA are restricted to reflexives. Reciprocals cannot be a LDA
- (iii) LDA are morphologically simplex. Complex anaphors are locally bound

The complex anaphor and the nominal reciprocals in Ao does not permit long distance binding.

- 12. *[narola aser moaba na-i_i ka-i-ka_i daŋ azək tal Narola Moaba_i dual-AGT and one-AGT -one dat beat COMP tanura ser tantsərla na-ii aſi child and old lady dual_i-AGT said

The simplex anaphor 'pa' can occur as a long distance anaphor. In long distance binding the antecedent of the anaphor occurs outside the clause. In the sentence below, the anaphor 'pa' has three antecedents: 'narola' within its governing category, 'moaba' outside the governing category and a discourse antecedent. Since 'pa' can have an antecedent outside its governing category it is treated as a long distance anaphor.

- 13. [narola-i_j pa_{i/j/k} asan ta] moaba-i_i afi

 Narola-AGT 3SG-self praise COMP moaba-AGT said

 'Moaba_i said thatNarola_i praised him/herself_{i/i/k}'
- 14. narola-i_i moaba_i daŋ atema suno yanglu-an aſi pa_{i/j/k} ta Narola-AGT Moaba DAT 3sg BEN make-IMP COMP said tea Narola asked Moaba to make tea for her/him'

^{&#}x27;The child and the old lady_i said that Narola and Moaba_i beat each other_i'

When the marker 'ča' occurs with the embedded verb, it blocks the co-reference of 'pa' with the clausal subject. It cannot be co-indexed with the clausal subject. Hence, the simplex anaphor 'pa' is co-indexed either with the subject of the matrix clause. A question that can arise is whether pa can have a discourse antecedent.

15. narola- i_i moaba $*_j$ dan pa $_i*_{/j/k}$ atema suno yanglu- ča- an ta a j_i Narola-AGT Moaba DAT 3SG BEN tea make-IMPOB COMP said Narola asked Moaba to make tea for her/him'

16. narola-i_imoaba_{*j} daŋ pa_{i*/j/k} atema suŋo yanglu- tsə- ogo ta aʃi
Narola-AGTMoaba DAT 3SG BEN tea make-IMP OB COMP said
Narola asked Moaba to make tea for her/him'

Note, that the pronouns in this language can occur as anaphors. Hence 'pa' has a pronominal interpretation when it is interpreted as a simple pronoun. As a simple pronoun it can have a discourse antecedent. Hence, the pronoun in Ao obeys both Principle A and Principle B of binding theory. The marker 'ča' along with 'tsə' marks the other benefactive; an activity or event done for the beneficiary of someone else. The entity that carries the activity is not the beneficiary. However, there is a syntactically they are in complementary distribution; 'ča' always occurs with the imperative mood and 'tsə' with other aspects and tense but not with imperative mood.

11 Conclusion

To sum, we have examined the nouns that have no independent reference but refer to some other constituent (antecedent) in the sentence. As has complex and simplex anaphor. The complex anaphor has antecedent within its clause. The pronouns behave like a simplex; it permits long distance binding. However, the presence of other benefactive (OB) marker blocks the co-reference with the subject within its clause. Hence, pronouns in this language obeys booth

Principle A and Principle B of Binding theory. Though Ao permits scrambling of the subject and object, scrambling of the anaphors is not allowed.

ABBREVIATIONS USED:

AGT : AGENTIVE

COMP : COMPLEMENTIZER

DAT : DATIVE

3 : THIRD PERSON

PAT : PATIENTIVE

PERF : PERFECTIVE

PROG : PROGRESSIVE

PRS : PRESENT

PROG : PROGRESSIVE

PST : PAST

SG/S : SINGULAR

VREC : VERBAL RECIPROCAL

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