# e-Content Submission to INFLIBNET

Linguistics
Prof. Pramod Pandey
Centre for Linguistics, SLL&CS,
Jawaharlal Nehru University, New Delhi-110067
pkspandey@yahoo.com
011-26741258, -9810979446
Linguistic Typology and Language Universals
Prof. Kārumūri V. Sub <mark>bāro</mark>
University of Delhi (Rtd.), Delhi 110007
Postal address:
13/704 East End Apartments,
MayurVihar Phase I Extension
Delhi 110096
kvs2811@gmail.com
+91-11-4309-4675; 98-688-69904
Agreement in South Asian languages (part 2)
Lings_P13_M9
Prof. Kārumūri V. Subbāro
University of Delhi (Rtd.), Delhi 110007
kvs2811@gmail.com
+91-11-4309-4675; 98-688-69904
Prof. Probal Dasgupta
Linguistic Research Unit, Indian Statistical Institute
203 Barrackpore Trunk Road, Kolkata 700108

This Unit is organized as follows: Contents

- 9.1 Introduction
- 9.2 What are semi-polysynthetic languages?
- 9.3 Incorporation of adverbs, NPIs, quantifiers etc.
- 9.4 Postposition Incorporation and Valence Increase
- 9.5Long-Distance Agreement in South Asian languages
- 9.6Conclusion

#### 9.1 Introduction

In this Unit, we discuss different kinds of agreement patterns that are available in South Asian languages. As mentioned earlier, South Asian languages exhibit a variety of agreement patterns from null agreement to very rich agreement. Tibeto-Burman languages permit the incorporation of quantifiers, NPIs and we provide examples to illustrate the phenomena. We also discuss the cases of incorporation in polysynthetic languages and semi-polysynthetic languages. We provide a discussion ofLong-Distance Agreement in South Asian languages.

## 9.2 What are semi-polysynthetic languages?

According to Subbarao (2012:103), there are languages in which incorporation of pronominal clitics, quantifiers, negative polarity items, take place. In Kuki-Chin languages for example 1 and 2 person pronominal clitics and postpositions are 'incorporated' in the verb, and the pronoun may be overtly present, or it may be covert.

According to Subbarao (2012:103), "the verb may or may not include an expression of each of the main participants obligatorily in the events described by the verb." Hence, he labels them as 'semi-polysynthetic languages'. In addition to Tibeto-Burman languages, Northern Munda languages such as Santali, Mundari and Ho and the Mon-Khmer Khasi too exhibit this phenomenon. Postpositions too are incorporated in the verb and we shall see that Postposition

Incorporation increases the valence of the verb just as causatives do. Incorporation of quantifiers, NPIs (negative polarity items), adverbs do not either increase the valence, nor do they decrease the valence of a predicate in Tibeto-Burman languages.

#### **Pronominal Clitics**

Hmar is a sister language of Mizo and while it shares many structural similarities with Mizo, it does differ in some syntactically significant ways.

We provide an example from Hmar (Kuki-Chin) to illustrate our point. Unlike Mizo, Hmar does not exhibit Subject-Object Asymmetry with regard to agreement. In Hmar, the Principle of Pronominal Strength Hierarchy with regard to subject -direct object agreement does not operate. Note that when the direct object is in 1st person, the subject agreement marker of 3<sup>rd</sup> All Post G person is overtly present (1) below.

Hmar (Kuki-Chin, Tibeto-Burman)

We provide another example from Hmar (Kuki-Chin) to show that indirect object in 1 person triggers pronominal suffixal agreement. The indirect object is mi 'me'.

Incorporation of Pronominal suffixes in the verb –Incorporation of the Indirect Object Hmar

2. lalalekhabu atah In pro mipeklala- Erg (me) book 3sg 1 sg (me)- give- pst 'Lala gave a book to me.'

In Kuki-Chin languages the pronominal clitics of the subject in 1, 2 and 3 person occur in the verb. In addition, these languages permit the occurrence of the pronominal clitics of the direct object, indirect object and even an oblique object with postposition when it is incorporated.

Mizo, a Kuki-Chin language of the Tibeto-Burman language family, the 1 person direct object clitic occurs to the left of verb stem as in (Y) and the 2 person object clitic occurs to the right of the lone verb stem or the tense marker, if the verb stem is followed by the future tense marker as in (Y). The 3rd person subject agreement marker is a-, and it is not overtly present in (Y) for reasons which we explicate below. We have marked the absence/non-occurrence of the 3rdperson subject agreement marker by ø for expository reasons.

Mizo (Kuki-Chin)

3. lali- n ø min- ei- pui- aŋ
3 sg Erg (3sg SAM) 1 sg DO (OAM) eat with- Fut

'Lali will eat with me.'

SAM is Subject Agreement marker and OAM is Object Agreement marker.

In Hmar, an ergative marker -n/a occurs with the subject, when the verb is [+transitive].

The verb also agrees in number and person with the subject and with 1 and 2 person direct and indirect object in Hmar. In (4) the verb agrees with the subject Zovi.

Hmar (TB)

4. zovi a- Fe

```
Zovi 3 sg- go/went (nom)
```

'Zovi went/goes.'

Athpahariya, aka, Athpari, a Tibeto-Burman language of the eastern group Kiranti subgroup, spoken in Nepal also exhibits the incorporation of pronominal clitics in the verb.

```
5. pro Pro yaŋ- a- had- i- t- i
(2 pl) (1 sg) 1 sg- 2 - bite- pl- nonpst- copy
'You (pl) bite me.'
```

(Tumbahang 2011:91)

In Hmar (Kuki-Chin) the comitativePP which is an oblique argument can be incorporated as a pronominal clitic.

OUISES

Incorporation of the Comitative PP

Hmar - Incorporation with a [-transitive] verb: [-transitive] verb> [+transitive] verb

```
6. lalii- in Proj in- ţšuŋ- pui- ka- ti- ce
Lali-erg (you) vref- sit- with- 1sg- fut- 2sg
```

'Lali'll sit with you.'

Another interesting feature of the Kuki-Chin languages is that adverbs can be incorporated.

## 9.3Incorporation of adverbs, NPIs, quantifiers etc.

In Mizo, adverbs are incorporated to the right of the verb as shown below. Such incorporation shows that the verb is not the final constituent after incorporation.

```
7. lali- tsu a- tlai- ziah

Lali Def 3sg late- always

"Lali is always late."
```

In Mizo intensifiers indicating quantity are incorporated in the verb.

```
    lali- n a- chiar- tlem
    Lali- erg 3sg- read- less
    'Lalistudies less.'(Subbarao&Laiitha Murthy 1997)
```

Adverbs are incorporated in Hmar too. The adverb fast for example is incorporated in Hmar.

In sentence (9) in Hmar the adverb hra^t 'fast' is incorporated.

Hmar (Kuki-Chin)

9. lali a- tla^n hra^t Lali 3sg- run fast 'Lali runs fast.'

However, when the adverb is in the scope of an intensifier, then, incorporation is **not** permitted as (10) below illustrates.

Coniees

Incorporation not permitted of an adverb with intensifier

```
10. lali hra^t takin a- tla^n lali fast -ly/very 3sg- run
'Lali runs very fast.'
```

An intensifier as such can be incorporated as the example from Mizo (Kuki-Chin) shows. The intensifier *emem/hle* is incorporated in the verb in (11).

Mizo (Kuki-Chin)

11. lala- lo- kal a- hmuh cuan lali- cu- a- hlim- emem/hle
Lala towards go 3sg- see cpm Lali- def 3sg- happy- intensifier

'Seeing Lala coming, Lali felt very happy.'

(Lydia Khiangte, 2015)

Negative Polarity items are incorporated in Khasi (Mon-Khmer). Recall that Khasi is a verb-medial language. The NPI pat 'yet' occurs to the right of the negative morpheme -m- 'not'. A negative c-commands the NPI and it C-Commands the NPI in (39).

# Khasi (Mon-Khmer)

Quantifiers too can be incorporated in the verb in Kuki-Chin languages.

The universal quantifier  $v\bar{a}y.in$  'all' occurs in the subject position in the phrase an-  $v\bar{a}y.in$  'all of them' and also in the verb as the verbal quantifier vek'all'.

Conieses

Mizo (Kuki-Chin) No incorporation of the quantifier - Free quantifier

Incorporation of the quantifier - Bound quantifier

## **Quantifier Doubling**

<sup>&#</sup>x27;The banana that the boy ate was not yet ripe.' (Grace Temsen p.c.)

'We all are sitting there.'

Another significant feature of Hmar agreement is that the possessor of direct object exhibits agreement with the verb. Note that possessor is neither a subcategorized argument, nor is it a non-subcategorized argument.

Hmar (Tibeto-Burman)

```
14. zova-
                      kut
                                                 pek
                                        so:p-
                                                 oben
    Zova-
                      hands
                             3s-
                                  1s-
                                        washed-
                my-
    'Zova washed my hands.'
```

(Subbarao 1998)

The possessor is ka 'my' and the verb carries the corresponding 1 person object agreement aduate marker which is mi.

Possessor agreement is found in Munda languages too.

As mentioned earlier, Sora is a polysynthetic language. In Sora too, the possessor of the direct object is incorporated as sentences (15) show. jen 'legs' is the direct object of the verb lem 'bow'and the possessor of the direct object is incorporated as am 'your'.

Sora (Munda)

'I bow to your legs.'

(Ramamurti 1931: 43)

In Ho (Munda), the possessor of the indirect object ote'field' is incorporated, as mi 'your' in the verb.

Ho (Munda)

'Jema had given his field's water to your field.'

(Subbarao, 2012:105)

Santali (Munda) too exhibits a similar phenomenon.

Santali (Munda)

The genitive of the direct object -ti- 'of' is incorporated in the verb, and so is the 3 singular subject clitic -e- '3sg' and the possessor of the direct object -p- '1 sg'. Note that the agreement marker of the subject -(y)-e '3sg' occurs twice, once on the pre-verbal constituent which is *kuri* 'girl' and to the left of the declarative or finite marker.

9.4Postposition Incorporation and Valence Increase

We shall discuss Postposition Incorporation in Hmar.We shall discus the effects of postposition incorporation on the transitive nature of the verb. We shall also discuss the phenomenon of Pronominal Strength Hierarchy found in agreement.

As the verb tsun 'sit' is [-transitive], the subject in (18) is nominative case-marked, and the nominative case marker in Hmar is null. The oblique object is comitative case-marked by -le. However, when there is a comitative PP in 1 person, the verb exhibits agreement with the comitative PP in 1 person plural. The 3 person subject agreement marker does not occur, as 1personComitative PP is stronger than 3 person subject. The Principle of Pronominal Strength Hierarchy operates in verb agreement in many Kuki-Chin languages, where

## **19.** 1 person > 2 person > 3 person.(Subbarao 1998, 200 XX, 2012).

Another interesting feature is the agreement marker is in 1 person plural, as the 3 person subject and 3 person comitative PP together constitute the plural. Hence, the agreement Graduate marker is in 1 person plural in (18)

Hmar (TB)

'Zovi went/goes only with me.'

In (19) too, the agreement marker is 2 person plural, as the 3 person singular and 2 person singular together trigger plural agreement and the agreement marker is 2 person 2 p plural is stronger than 3 person singular.

'Zovi go/went only with you.'

Kuki-Chin languages permit postposition incorporation. The postposition le 'with' is the comitative/associative case marker in Hmar. When incorporated in the verb, it takes a different form, and it is pui'with'. Thus, le'with' has the allomorphpui'with' verbs. Needless to mention, the postposition le 'with' and the verbal cliticpui 'with' are in complementary distribution, though they occur with different constituents, namely, le 'with' with a noun and le 'with' with the verb. When incorporation takes place, the incorporated postposition occurs to the right of the verbfe'go'. Due to incorporation the valence of the [-transitive] verbfe'go' is raised by one and consequently, fe.pui 'go.with' becomes a [+transitive] verb. Once the predicate gains the status of a transitive verb, the subject Zovi is ergative case-marked, as [+transitive] verbs require their subject to be ergative marked in all three persons, tenses and aspects. Once thepostposition is incorporated, we only have bare pronouns kei 'I' and nan'you' in (20) and (21) and they gain the status of direct objects. Since they are direct objects in 1 and 2 persons respectively at this stage in the derivation, they are incorporated as pronominal clitics in the predicate -mi- '1 person DO' and -ce' 2 person DO' as in (20) and (21) below.

POSTPOSITION LE 'with' INCORPORATED INTO THE VERB

'Lali goes/wentonly with me.'

'Zovigoes/wentonly with you.'

In sentences (20) and (21), the following are worth noticing:

- (i) the subject carries the ergative case marker -n,
- (ii) 1 and 2 person pronominal clitics occur to the right of the verb tšun'sit', and
- (iii) The pronouns *kei'*1' in (20) and *naŋ* 'you' in (21) are accusative case-marked, and they are not comitative PPs, in contrast to (17) and (18).
- (iv) the pronouns *kei*'l' in (20) and *naŋ* 'you' in (21) can overtly occur in spite of the occurrence of the incorporated verbal clitic –*ce* 'you.sg', as the pronouns *kei*'l' in (20) and *naŋ* 'you' in (21) are in the scope of a limiter such as *cau* 'only'.

Thus, the [-transitive] verb of (18) and (19) is 'transitivized' in (20) and (21) after the incorporation of the comitative postposition le. Since the pronouns kei'l' and naŋ 'you' are in derived direct object position in (20) and (21) by virtue of not having the postposition le 'with', the pronominal cliticmi '1 singular clitic' in (20) and ce '2 singular clitic' in (21) occur with the verb.

Interestingly, if cau 'only' is not present, then, kei 'I' or naŋ'you'cannot occur.

'Lali goes/went only with me.'

'Zovi goes/went only with you.'

In (22) above, the 3 person subject agreement marker cannot occur as 1 person agreement marker is stronger than 3 person singular. This is due to the Principle of Pronominal Strength Hierarchy that operates in Mizo in this case and the other Kuki-Chin languages in general. The pronominal clitic of the direct object in 1 person is min- in (Y).

Mizo (Kuki-Chin, Tibeto-Burman)

(24) shows that Principle of Pronominal Strength Hierarchy is not operative, when the DO is in 2 person, as 3 person agreement can co-occur, when 2 person agreement marker occurs.

The Principle of Pronominal Strength Hierarchy is also operative, when the indirect object is in 1 person.

We shall now attempt to demonstrate that postposition incorporation enhances the valence of the verb or adjective by one argument. That is, if the verb or adjective is [-transitive], it becomes [+transitive], once the postposition is incorporated.

It must be mentioned here that in Tibeto-Burman languages adjectives behave like verbs inthat they take agreement markers, non-finite complementizer, they participate in incorporation just as verbs do, they take causative suffixes that enhance their valence etc.

In (1) below, the adjective hlim/lom 'happy' is [-transitive] and hence, the subject Zovi does not take the ergative marker and it is in the nominative case. kei-le 'l-with' is an adverbial phrase andit is a subcategorized argument.

'Zovi is happy only with me.'

In (25) below, the postposition *pui* 'with' is incorporated in the verb. The following processes take place.

- (i) The subject is marked with the ergative case marker.
- (ii) Since le'with' is incorporated as a verbal clitic, le 'with' does not occur in (2).
- (iii) The bare pronounkei'l'acts as the object for the newly-formed predicate hlim-pui 'happy-with', as it is [+transitive] due to incorporation .kei 'l' is incorporated as a pronominal clitic mi '1 sg' reflecting the direct object.
- (iv) The occurrence of *kei* '1' is optional and in fact, the native speaker prefers not to retain it.

Postposition pui 'with' incorporated in the verb

'Zoviis happy with me.'

We've seen that just as verbs permit incorporation, adjectives also permit incorporation.

Adjectives behave precisely the same way that verbs do. We can conclude that adjectives are in fact verbs.

9.5Long-Distance Agreement (LDA)

Agreement generally is a local phenomenon and it takes place within a simplex sentence. Just like Long-Distance Anaphora, agreement may also take place beyond the sentence in which the constituent that triggers agreement. Such a phenomenon is called Long-Distance Agreement (LDA). Just as in long-distance anaphoric binding, in long-distance agreement too, the embedded clause that contains the antecedent must be [-finite]. LDA is a phenomenon that is found in Dravidian, Indo-Aryan and Tibeto-Burman languages.

We provide first the cases of LDA inobject complements from Hindi-Urdu, Punjabi and Marathi (Indo-Aryan).

The direct object in the embedded sentence [s2PRO sākilcalānī s2] 'cycle drive-inf' is sākil 'cycle' which is feminine in Hindi-Urdu, and it triggers agreement on the matrix verb  $\bar{a}$  'come' yielding st Gra ātīthī 'used to come'.

Hindi-Urdu (IA)

Long-distance agreement with the embedded object sāikil 'cycle':

27. rām S2PRO calā- $\mathsf{th}\bar{\mathsf{l}}_i$ ko sāikil<sub>i</sub> cycle drivecome- imperf.f pst.f

'Ram used to know how to ride a bicycle.'

In Hindi-Urdu there is another possibility where the infinitive calā. nā 'drive.inf' in the embedded clause does not exhibit agreement with sākil 'cycle', the embedded object. As a result, the matrix verb exhibits default agreement.

No Long-distance agreement with the embedded object *sāikil* 'cycle':

28. rām ko [<sub>S2</sub>PRO sāikil calāā 52] Τā Thā Ram dat cycle drive- inf- m come- imperf.m pst.m 'Ram used to know how to ride a bicycle.'

Punjabi (Indo-Aryan)

Long-distance agreement with the embedded object sāikil 'cycle'

29. prakāš n $\tilde{u}$  [ $_{S2}$ PRO sāikil $_i$  calā-  $\dot{\eta}$ -  $\bar{\iota}_{iS2}$ ] ā-  $nd\bar{\iota}_i$ -  $s\bar{\iota}$ Prakash Dat cycle drive- inf- f come- imperf- pst

'Prakashused to know how to ride a bicycle.'

In Marathi too, LDA is permitted.  $g\bar{a}d\bar{i}$  vehicle' is feminine, singular. Unlike in Hindi-Urdu, Marathi has masculine, feminine and neuter gender for nouns. Since  $g\bar{a}d\bar{i}$  vehicle' is feminine, singular, the verb yete 'came' in (30) exhibits agreement in feminine, singular.

## Marathi (Indo-Aryan)

30.  $r\bar{a}m$ -  $l\bar{a}$  [s2PRO  $g\bar{a}d\bar{q}\bar{q}$  ts $\bar{a}lavt\bar{a}s2$ ] Yete Ram- dat vehicle.sg.f drive.inf.f come.pst.sg.f

'Ram can drive a vehicle'='Ram knows how to ride a bicycle.'

In (31) below,  $g\bar{a}dy\bar{a}$  'vehicles' is feminine, plural and hence, the verb yete 'came' exhibits agreement in feminine, plural.

31. rām-lā [s2PRO gāḍyā tsālavtā s2] Yetāt

\*\*Ram-dat vehicle.pl.f drive.inf.f come.pst.pl.f"

'Ram can drive vehicles'

In Hindi-Urdu there is another option that some speakers prefer, namely, the embedded infinitive does not show agreement with the embedded subject, and it is only the matrix verb that manifests agreement with the embedded subject.

32. ek ghanțe mẽ frij cal-Nā

one hour In refrigerator.f.s. start inf.m.s.defagr

šurū ho jāegī start become will.f.s

We now provide examples of from subject complements, where the subject of the embedded clause is raised to the position of the subject of the matrix clause. Note that just as in object complements, the verb of the embedded clause is [-finite].

SUBJECT COMPLEMENTS (NONFINITE)

Hindi-Urdu (IA)

Graduate Courses 33. [s2depo Se basẽ nikalbus station from buses f, p startšurū gayĩ Ho went f, p Be start

'The buses began to start from the bus station.'

34. [s2šādī kī taiyāriyã honī s2] šurū gayĩ ho plansf,p inf, f, s wedding of bestart be wentf,p

'Plans for the wedding got started.'

(Subbaraoet al 2007:315)

We provide an example from Telugu (Dravidian).  $v\bar{a}du$  'he' is the subject of the embedded clause. It triggers masculine, singular agreement on the matrix verb unnāḍu 'is'.

LONG-DISTANCE AGREEMENT

35.  $[_{S2}v\bar{a}du_i$  manci-  $v\bar{a}du_{S2}]$ Ιā фиi unnāhe good-3 s,mpron suffix comp be.pres- 3s,m

'He appears to be a nice fellow.'

(Subbarao 2001: 483) is the subject of the matrix verb.

In Mizo (Tibeto-Burman) the matrix verb a-ni '3 singular-be' is in the singular, as the entire embedded sentence S<sub>2</sub> is the subject of the matrix verb in (36).

Mizo (TB)

36. [s2amirikā Mite thau taktak s2] i ni i

American People def 3pfat

'It is the case that Americans are very fat.' (a slightly modified version from the original-the aduate intensifier very is added in sentence translation)

(Subbarao 2001:481)

(36) Literally means: '(That) Americans are very fat is the case.'

In (37), the subjectof the embedded clause raisesto the position of the subject of the matrix clause, as a result of which the matrix verb exhibits agreement in 3 plural. In Mizo and Hmar and possibly, in the other Kuki-Chin languages, adjectives and verbs do not manifest agreement markers if the subject is not overtly present. Hence, the adjective carries a null (ø) agreement marker, which we've indicated by  $\emptyset$ . Now that the embedded subject is in the derived subject position of the matrix clause, the matrix verb manifests plural agreement marker as the newlyderived subject triggers agreement on the matrix verb [see Subbarao 2001 for further discussion].

37. amirikā Mite thau tak aniAmerican People def fat very- very 3p- be
'It is the case that Americans are very fat.'

## 9.6Conclusion

In this chapter we've discussed the nature of semi-polysynthetic languages. We have also discussed Postposition Incorporation and shown that it raises the valence of the predicate by one argument. We've also discussed incorporation of adverbs, NPIs, quantifiers etc. in Tibeto-Burman languages and Khasi. We've shown how long-Distance agreement works in South Asian . iguages, languagesbased on evidence from Indo-Aryan languages, Tibeto-Burman languages, and Dravidian languages.