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### 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 1and 2 person pronominal cliticsand 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 $3^{\text {rd }}$ person is overtly present (1) below.

Hmar (Kuki-Chin, Tibeto-Burman)

1. zara- in pro a- mi- hmu

Zara- erg (me) 3sg $1 \mathrm{sg}(\mathrm{me})-$ saw
'Zara saw me.'
(Subbarao 1998)

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. Iala- In pro lekhabu a- mi- pek- tah
'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 $\varnothing$ for expository reasons.

Mizo (Kuki-Chin)

| 3. Iali- | n | $\varnothing$ | min- | ei- pui- | an |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 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 $-n / a o c c u r s$ 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

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    Zovi 3 sg- go/went
    (nom)
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'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 yan- 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.

Incorporation of the Comitative PP
Hmar - Incorporation with a [-transitive] verb: [-transitive] verb> [+transitive] verb
6. Ialii- in Proj in- țšun- pui- ka- ti- ce

Lali-erg (you) vref- sit- with- 1sg- fut- 2 sg

## 'Lali'll sit with you.'

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

### 9.3 Incorporation 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. Iali- tsu a- tlai- ziah

Lali Def 3sg late- always
"Lali is always late."

In Mizo intensifiers indicating quantity are incorporated in the verb.
8. 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 $h r a^{\wedge} t$ 'fast' is incorporated.

Hmar (Kuki-Chin)
9. Iali a - $\mathrm{tla}^{\wedge} \mathrm{n} \quad \mathrm{hra}{ }^{\wedge} \mathrm{t}$

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.

Incorporation not permitted of an adverb with intensifier
10. Iali $h r a^{\wedge} t$ takin $a-\quad t a^{\wedge} n$

Iali 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/hleis 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 verbmedial 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)

12 ka-kayt [ba- la- bām u-khinna?] ka-m-
f-banana adjr- pst- eat m-child 3fs-neg-pat- i?
yet(NPI)- Ripe
'The banana that the boy ate was not yet ripe.' (Grace Temsen p.c.)

Quantifiers too can be incorporated in the verb in Kuki-Chin languages.
The universal quantifier vāy.in 'all' occurs in the subject position in the phrase an-vāy.in 'all of them' and also in the verb as the verbal quantifier vek'all'.

Mizo (Kuki-Chin) No incorporation of the quantifier - Free quantifier
13 a. kholāy.ah kan- vāy.in kan- țšu-
outside 1 pl all 1 pl sit-
'We all are sitting there.'

Incorporation of the quantifier - Bound quantifier

13 b. kholāy.ah kan- țšu- vek
outside $\quad 1 \mathrm{pl}$ - sit- all
'We all are sitting there.'

Quantifier Doubling
13 a. kholāy.ah kan- vāy.in kan- ṭšu- vek
outside 1 pl all 1 pl sit- all

## '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- n ka- kut a- mi- so:p- pek

Zova- erg my- hands 3 s - 1 s - washed- oben
'Zova washed my hands.'
(Subbarao 1998)
The possessor is ka ' my ' and the verb carries the corresponding 1 person object agreement 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. jēn 'legs' is the direct object of the verb lēm 'bow'and the possessor of the direct object is incorporated as am 'your'.

Sora (Munda)
15. pro lēm- jēn- t- am
(I) bow- legs- [-pst]- your
'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)
16. jema $\mathrm{i}_{\mathrm{i}}$ aye- Pa Ote ria daPa $\mathrm{ama}_{\mathrm{j}}$ ote-
Jema he- Gen Field gen water Your field-
$\mathrm{e}_{\mathrm{i}}$ - em- aḍ- mij- a

3s- give- pstperf- 2s- fin
'Jema had given his field's water to your field.'
(Subbarao, 2012:105)

Santali (Munda) too exhibits a similar phenomenon.
Santali (Munda)
17. kora- do kuri- (y)e dal- ke- d- e- ti- n- a
boy- topic girl- 3 s beat- pst- [+tr]- 3 s - gen- 1 sg - fin
'The boy beat my girl.' (*'My boy beat the girl.')
(Macphail, ibid)

The genitive of the direct object -ti- 'of' is incorporated in the verb, and so is the 3 singular subject clitic -e- ' 3 sg ' and the possessor of the direct object - $n$ - ' 1 sg '. Note that the agreement marker of the subject $-(y)-e^{\prime} 3 s g^{\prime}$ 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 țšun '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. $\mathbf{1}$ person > $\mathbf{2}$ person > $\mathbf{3}$ 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 marker is in 1 person plural in (18)

Hmar (TB)
18. zovi kei- le- cau kan- Fe

Zovi I- with- only- 1pl- go/went (nom)
'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.
19. Zovi nan- le cau in- fe Zovi you- with only 2pl- go/went (nom)
'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 $l e$ ' 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 ' $I$ ' andnan'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 $-m i$ - ' 1 person DO' and $-c e^{\prime} 2$ person DO' as in (20) and (21) below. Postposition le 'with' incorporated into the verb

| 20. | zovi- | N | kei | cau | a- | mi- | fe- | pui |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Zovi- | erg | I | only | $3 \mathrm{~s}-$ | $1 \mathrm{~s}-$ | go/went | with |  |

'Lali goes/wentonly with me.'

| 21. zovi- | N | nan- | cau | a- | fe | pui- | ce |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Zovi- | erg you- only | 3s- | go/went | with- | 2 s |  |  |

## '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 țšun'sit', and
(iii) The pronouns kei'l' in (20) and nan '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 nan 'you' in (21) can overtly occur in spite of the occurrence of the incorporated verbal clitic -ce 'you.sg', as the pronouns keil'l' in (20) and nan '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 nay '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 $c e$ ' 2 singular clitic' in (21) occur with the verb.

Interestingly, if cau 'only' is not present, then, kei 'l' or nan'you'cannot occur.
22. zovi- N (*kei) a- mi- fe- Pui

Zovi- erg I 3s- 1s- go/went With
'Lali goes/went only with me.'
23. zovi- N (*nar) a- $f e$ pui- Ce

Zovi- Erg you- 3s- go/went with- 2 s
'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 $(\mathrm{Y})$.

Mizo (Kuki-Chin, Tibeto-Burman)
24. Iali- $n$ a- ei- pui- an tse

Lali- Erg 3sg- eat- with- Fut 2 sg
"Lali will eat with you."
(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 'I-with' is an adverbial phrase andit is a subcategorized argument.

| 25. | Zovi | kei- | le- | cau | kan- | hlim/lom |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Zovi (nom) | I- | with- | only- | $1 \mathrm{pl}-$ | happy |  |
| (nom) |  |  |  |  |  |  |

'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 pronounkeil'acts as the object for the newly-formed predicate hlim- pui 'happy-with', as it is [+transitive] due to incorporation .kei 1 ' is incorporated as a pronominal clitic $m i=1 \mathrm{sg}$ ' reflecting the direct object.
(iv) The occurrence ofkei 1 ' is optional and in fact, the native speaker prefers not to retain it.

Postposition pui 'with' incorporated in the verb
26. zovi-
Zovi- erg (I) 3 sg- 1 sg DO- happy- with
'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 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 ${ }_{s 2}$ ] 'cycle drive-inf' is sākil 'cycle' which is feminine in Hindi-Urdu, and it triggers agreement on the matrix verb $\bar{a}$ 'come' yielding ātīthī ‘used to come'.

Hindi-Urdu (IA)
Long-distance agreement with the embedded object sāikil 'cycle':
27. rām ko [s2PRO sāikil calā- n- $\left.\overline{\mathrm{L}}_{i}{ }_{\mathrm{s} 2}\right]$ ā- $\mathrm{t} \overline{\mathrm{L}}_{i}$ th $\overline{\mathrm{L}}_{i}$

Ram dat cycle drive- inf- $F$ come- imperf.f pst.f
'Ram used to know how to ride a bicycle.'
In Hindi-Urdu there is another possibility where the infinitivecalā.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 [s2PRO sāikil calā- $n$ - $\left.{ }^{2} \bar{a}_{52}\right]$ ā- Tā 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'


Prakash Dat cycle drive- inf- $f$ come- imperf- pst
'Prakashused to know how to ride a bicycle.'

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

Marathi (Indo-Aryan)
30. rām- lā [s2PRO gāḍī tsālavtās2] 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, gāḍȳ̄ '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 ghanṭe 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)

| 33. | [s2depo | Se | basẽ | nikal- |
| :--- | :--- | :--- | :--- | :--- |
| nīs2] |  |  |  |  |
| bus station | from | buses f, $p$ | start- | inf, $\mathrm{f}, \mathrm{s}$ |
| šurū | Ho | gaỹ̃ |  |  |
| start | Be | went f, p |  |  |

'The buses began to start from the bus station.'
34. [s2šādī kī taiyāriyã̃ ho- nī ${ }_{52}$ ] šurū ho gaỹ̃̃ wedding of plansf,p be- inf,f,s start be wentf,p
'Plans for the wedding got started.'
(Subbaraoet al 2007:315)

We provide an example from Telugu (Dravidian). vāḍu 'he' is the subject of the embedded clause. It triggers masculine, singular agreement on the matrix verb unnāḍ 'is'.

LONG-DISTANCE AGREEMENT
35. [s2vāḍui manci- vāḍcus2] lā unnā- du $u_{i}$
he good- $3 \mathrm{~s}, \mathrm{mpron}$ suffix comp be.pres- $3 \mathrm{~s}, \mathrm{~m}$
'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 $S_{2}$ is the subject of the matrix verb in (36).

Mizo (TB)
36. [s2amirikā Mite $\mathrm{cu}_{i} \quad a n_{i}$ - thau tak- $\left.\operatorname{tak}_{\mathrm{s} 2}\right]_{j}$$a_{-} \mathrm{ni}_{j}$
'It is the case that Americans are very fat.' (a slightly modified version from the original- the 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 ( $\varnothing$ ) agreement marker, which we've indicated by $\varnothing$. 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 $\mathrm{cu}_{i} \quad \varnothing$ - thau tak- tak $a n_{i_{-}} \mathrm{ni}$

American People def fat very- very $3 p$ - be
'It is the case that Americans are very fat.'

### 9.6Conclusion

In this chapter we've discussed the nature ofsemi-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 TibetoBurman languages andKhasi. We've shown how long-Distance agreement works in South Asian languagesbased on evidence from Indo-Aryan languages, Tibeto-Burman languages, and Dravidian languages.

