CHINESE EVIDENCE FOR A VERBAL COMPLEMENTIZER

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0 Introduction

Nylandei (1984 & 1985) has proposed a verbal complementizer theory for Krio we say/that to solve a problem raised for ECP (Empty Category Principle in GB theory) which subsumes the that-trace filter. This paper presents evidence from Mandarin Chinese for a complementizer also violating ECP at LF paralleling that in Krio. We show that this complementizer which is homophonous with the full verb shuo 'say' is also a verbal complementizer, namely a category intermediate between verbs and complementizers, possessing properties of both and that the ECP problem can also be salvaged by Nylandei's theory.

Treating and reanalyzing the item *shuo*—say—as a verbal complementizer can salvage the above problem raised for ECP and further imply that there exists a Null COMP position in Mandarin Chinese

1 ECP effects in GB theory and a problem in Chinese

In GB theory, the Empty Category Principle which subsumes the that-trace filter is defined as follows

Empty Category Principle (ECP) (Chomsky 1986)

[a e] (traces) must be properly governed

A properly governs B iff A theta-governs B or A antecedent-governs B

Government

A governs B iff

(1) A is a governor,

(II) A m-commands B,

(111) no barrier intervenes between A and B

(iv) minimality is respected

where governors are (i) heads

(11) co-indexed Xps

Minimality

A governs B iff there is no node Z such that

(1) Z is a potential governor for B

(II) Z m-commands B

(iii) Z does not m-command \

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The above ECP effect which subsumes the that-trace filter can account for the contrast between the following two examples in English

- (1) a *Who do you think (CP t, that (IP e, is coming?))
- (1) b Who do you think $(CP t_1 (P c_1 \text{ is coming }^{9}))$

In (1a) the presence of that in COMP position prevents t_i from properly governing e_i, violating ECP. However, now consider the following Chinese examples

- (2) a DS (ni zhenwei (cp shuo (p shei hue lai?))
 you think say/that who will come
 Who Jo you think will come?'
- (2) b LF (shei, (ni zhenwei (cp ti (shuo (p ei hue lai?)) who you think say/that will come

Sentence (2b) -which is the Logical Form of (2a)--is written as (3) below for convenience of discussions

(3) (sher, and zhenwer tep t, (shuo (p e, huc lat?)) who you think say/that will come For which X you think that X will come."

According to Huang (1982), Wh-movement in Chinese occurs at LF while ECP still has to be obeyed. In the above example (3), the wh-item sher 'who' moves from its embedded subject position to the intermediate Spec-Comp position at first step and finally to the matrix Spec-Comp position at LF leaving traces e_i and t_i respectively.

In the above example (3). Changes *shuo*, say' acts like English complementizer *that*, and its presence in COMP prevents to thom properly governing e_i , violating ECP. However, this LT formation in Changes is supposed to be well-formed. That is, ECP wrongly predicts that (2b) or (3) should be ill formed. At this moment, there are only two possibilities to explain this problem with regard to ECP. On the one hand, we can claim that Changes WH-movement does not necessarily obey ECP at LT. On the other hand, we can also claim that this is not a real ECP.

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violation and other properties with respect to Comp should be examined. At this moment, we are now prepared to examine the lexical characteristics of the item *shuo* 'say' in Chinese

2 The lexical characteristics of Chinese shuo 'say'

2 1 Shuo as a full verb

In Chinese, the above that-complementizer shuo is homophonous with the verb shuo 'say. This verb shuo 'say can take aspectual markings like the regular verbs do as shown below.

- (4) Zhangsan shuo guo hen duo gushi Zhangsan say ASP very many story 'Zhangsan has said many stories'
- (5) Zhangsan juotian <u>shuo</u> guo Lisi jintian bu hui lai Zhangsan yesterday say ASP Lisi today NOT will come Zhangsan has said yesterday that Lisi will not come today

As a main verb shuo, say, can also introduce direct speech, as in (6), in which the exact words of the speaker are quoted.

(6) Zhangsan juotian shuo Lisi jintian bu hui lai Zhangsan yesterday say Lisi today NOT will come 'Zhangsan has said yesterday, 'Lisi will not come today '''

Sentences (4) (5) and (6) show that shuo 'say' has several particularties. For one thing, it ictains the literal meaning of 'say'. It can also occur as a main verb in a simple predicate as (4) and (6) show to us. In both cases, this shuo 'say' functions as a regular full verb by taking an ispectual marking just like the regular full verbs do.

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2.2 Shuo as a that-complementizer

On the other hand. Chinese shuo can also occur as a complementizer introducing a clausal complement. In this case, it cannot take an aspect marker and lose the literal meaning of 'say' as examples (7) and (8) show to us. Moreover, the verbs which can precede this shuo 'say' are limited to verbs of mental action or perception such as think, know, believe, or verbs of communication such as inform, tell and so on

- (7) Ta zhidao (shuo) (*le/guo) Lisi da le/guo gou s/he know (SHUO/that) (*ASP) Lisi beat ASP dog 'S/he believes/knows that Lisi has beaten the dog'
- (8) Ta tongzhi Lisi (<u>shuo</u>) (*le/guo) Mali mingtian bu hui lai 'she inform Lisi (SHUO/that) (*ASP) Mali tomorrow NOT will come S/he informs Lisi that Mary will not come tomorrow *

Sentences (7) and (8) show that the item *shuo* appears to lose verbhood in that it does not retain the literal meaning of say and cannot take an aspectual marking like a verb and its function is to introduce a clausal complement

However, 1 : & Thompson (1981) suggest that the above constructions (8) consisting of *shuo* say in Mandarin Chinese should be treated as a form of indirect discourse with the optional occurrence of the verb *shuo* 'say' before the object clause representing the reported words. Based on the above analysis, we claim that this *shuo* is in fact a *that*-complementizer.

On the other hand, although it was claimed that *shuo* is an optional occurrence as in (7) and (8) as indicated by the parenthesis, this item tends to be an obligatory occurrence in some other syntactic formations such as passivization. For example

(9) List ber laoshi jinggao (shuo) shangke bu shu cho yan
List PASS teacher warn (SHUO/that) in-class NOT allow smoke eigarette
List was warned by the teacher that smoking will not be allowed in class

Verbs which can occur in these passivized formations and followed by shuo belong to the probabilities verbs applieding weight intimidate, koughe hariass, and so on

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The above sentence (9) shows that *vhuo* tends to be an obligatory occurrence in passivization formations

2 3 Shuo as a conditional clause introducer

In addition, *shuo* can also follow a conjunction such as *ruguo* 'if', *yaoshi* 'if' *jiaru* assuming to introduce a conditional clause. The conditional clause can occur in scritence-initial position as in (10)

(10) Ruguo shuo (+le/guo) ni yuanyi wo hui ban ni mang if SHUO (+ASP) you wish I will help you help II you wish I will help you +

Similarly shao in sentence (10) does not retain the literal meaning of say, and cannot take an aspect marker. Instead, the function of shao is a grammatical marker which can only follow some certain conditional conjunctions to introduce a conditional clause.

The above discussions provide evidences for us to claim that Chinese shuo is a category which possesses both the properties of a verb and complementizer. When shuo occurs is a furl verb, it ictains the literal meaning of 'say' and can take an aspect marker like the full verbs do. In contrast, when shuo occurs as a complementizer or conditional clause intruducer, which is homophonous with the full verb shuo 'say', shuo has been reanalyzed as a grammatical marker introducing a clausal complement after verbs of communication or verbs of mental action or perception or conditional conjunctions. In the process of reanalysis, the verb shuo has lost semantic and syntactic properties and survives as a grammatical morpheme marking the relationship between clauses.

3 Null COMP

As we have claimed *shuo* possesses both the properties of a verb and complementizer. However, when *shuo* occurs as a full verb, another *shuo* functioning as a complementizer cannot co-occur with it. In this way, the ambiguity caused by the same *shuo* is thus avoided as (44) illustrates.

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(11) Zhangsan shuo (1shuo) Lisi mingtian bu hui lai Zhangsan say ('SHUO/that) Lisi tomorrow NOT will come 'Zhangsan has said that Lisi will not come tomorrow'

The above sentence (11) indicates that the full verb shuo 'say' cannot co-occur with the homophonous complementizer shuo as shown below in (12)

(12) Zhangsan shuo (CP +shuo (IP List mingtian bu hui lat))

Zhangsan has said that Lisi will not come tomorrow '

In (12), it was indicated that when the matrix verb is shuo 'say, the position of COMP in the embeded clause has to remain empty and cannot be filled by the homophonous complementizer shuo

In other words, the non-co-occurrence of the homophonous verb and complementizer shure indicates that vhite say is a verb which permits (CONP e) namely a null COMP (Stowell 1982)

In contrast, other verbs permit the COMP position to be filled either obligatorily as in (13) or optionally as in (14)

(13) Lisi bei laoshi jinggao (CP (shuo) (jp shangke bu shu cho yan))

List PASS teacher warn (
$$_{CP}$$
 that $_{e}$ ($_{IP}$ in-class NOT allow smoke eigerette))

List was warned by the teacher that smoking will not be allowed in class

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(14) Ta zhidao (CP (shuo) (IP Lisi da le/guo gou))

s/he know (
$$_{CP}$$
 $\begin{bmatrix} \text{(that)} \\ \text{e} \end{bmatrix}$ ($_{IP}$ List beat ASP dog))

'S/he knows that Lisi has beaten the dog'

4 Shuo as a verbal complementizer

Based on the above analysis, we can claim that *shuo* can be treated either as a full verb or complementizer. Being a full verb *shuo* has the meaning of 'say' and can take an aspectual marking.

In contrast while *shuo* occurs as a complementizer, it has lost the semantic interpretation of 'say and syntactic properties by failing to take an aspect marker. However, the metaphorical sense of the verb meaning say is still retained. As has been claimed, this complementizer always follows verbs of mental action or perception (i.e. *zhenwer*), think *mangan* believe or *zhidao*, know.) indicating people tend to say what they believe or what they say. In addition when this complementizer follows the verbs of communication (i.e. *tongzhi* inform. *junggao* waire.) the spoken words is introduced which corresponds to what is believed or bought. These indicate that the pragmatic distance between saving thinking believing and knowing is smill as suggested by Lord (1993). For this reason, it is teasonable to claim that *shuo* still retains the verbal properties while it occurs as a complementizer.

In this spirit, there is one basic difference between Chinese shuo as a complementizer and English that-complementizer in that English complementizer that is a true complementizer which is a functional category [-N -V]

By contrast. Chinese complementizer shuo is an intermediate category between verbs and complementizers which possesses properties of both. As we have claimed since Chinese shuo as a complementizer still retains the verbal properties with regard to the meaning of sav. it should be treated as a verbal complementizer (a term borrowed from Nylander 1985). Namely, Chinese shuo should be treated as a lexical category [+N+V] instead is a functional category. Since shuo is a fexical element, it can be a proper governor.

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Thus, the problem raises for ECP as we have pointed out at the beginning of this paper as in (15) can be solved ((3) is repeated as (15))

(15) (shc₁, (nı zhenwei (_{CP} t₁ (<u>shuo</u> (_{IP} e₁ hui laı '')
who you think SHUO/that will come
'For which X, you think that X will come'

In (15), the item shuo is reanalyzed as a verb, namely a lexical category and hence a proper governor, as illustrated in the following trees (16)

(16)

In (16) the item shuo is reanalyzed as a verb. Thus, since shuo is a lexical element and a proper governor, e_1 is properly governed by shuo and the problem raised for ECP is salvaged.

5 Parallelism in non-related languages

In many languages in the world, including many of the Kwa languages of West Africa, a that-complementizer is historically developed from the verb 'say' (Lord 1976–1993). The same phenomenon is also found in the Creole and Southeast Asian languages (Nylander 1984 & 1985, Matisoff 1991).

Similarly, when the homophonous items occur as complementizers, they lose the full literal meaning of sav and syntactic properties such as failing to affix like the full verbs do

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For example, in Twi, the that-complementizer is homophonous with the verb 'say at in (17)

(17) o-n-<u>se</u> biribi he-NEG-say something 'He said nothing'

[Rus 1854 228]

(18) akura ho o-se orenom nsu na wannya bi village there he-say he-drink water CONJ he-NEG-get some 'In that village he thought to drink water, but he got none' [Christaller 1875 156]

In (17), the verb se 'say' occurs as a main veib. In (18), the homophonous item se occurs as a quotative morheme or complementizer which introduces thoughts or intentions.

Similarly, in one Southeast Asian language Khmei, the item that can occur as a full verb meaning 'say' as in (19) and a quotative that-complementizer introducing a quotative clause while it follows verbs of utterance or cognition as in (20) (Matisoff 1991)

- (19) look thaa mdc 2sg say how What did you say "
- (20) knom kit that look qayuq pi∂hael m∂ph∂y-piani Isg think say/that 2sg age about twenty-five 'I think that you're about 25 years old'

The same phenomenon is also found in Krio (Nylander 1984 & 1985) as the following examples show to us

- (21) Wetin I bin se '
 what he PASR say
 What did he say ''
- (22) a bin yen se una sik I PAST bear say/that you be-sick I beard that you were sick

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In (21), se meaning 'say' occurs as a main verb while in (22) it occurs as a that-complementizer

Similarly, the homophonous item se is treated as a verbal complementizer which salvages an ECP violation as illustrated in (23) (Nylander 1984 & 1985)

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(23) uda una mɛmba (s t, se (s e, de kam ')) who you think say/that will come
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The ECP violation in (23) parallels (15) in Chinese as we have claimed Consequently, the theory of treating and reanalyzing Chinese shuo 'say' or Krio se 'say' as verbal complementizers proposed by Nylandei (1984& 1985) can account for both Chinese and Krio and salvage the FCP violations in each language

6 Conclusing remarks

In this article. I have argued for the following major conclusions

- (A) The that-complementizer in Chinese paralleling English that-complementizer is the item shuo which is homophnous with the full verb shuo 'say
- (B) At first glance, it appears that Chinese that-complementizer violates ECP at LF. But, after examining its lexical properties, we can claim that this item still retains some verbal properties in that it can only follow verbs of certain types (i.e. verbs of mental action or perception or verbs of communication). In addition, the pragmatic distance between these verbs and the literal meaning of 'say' for this item is not very far. Thus, we treat and reanalyzChinese shuo as a verbal complementizer as proposed by Nylander for Krio se
- (C) Since Chinese vhuo is a verbal complementizer, it should be treated as a lexical element [-N+V]. In contrast, English that-complementizer should be treated as a genuine complementizer and functional element with [-N-V].
- (D) Since many other languages in the world --i e. West African languages of Creole languages, also use the homophonous items of say to be that-complementizers, the above analysis and exploration lead to a typology of complementizers types.

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