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A Brief Description of the Youle Jino Copula^{*}

HAYASHI, Norihiko

1. Introduction

As is widely known, a copula is a kind of linguistic unit that behaves quite peculiarly in every language. Most linguists believe that copulas are meaningless (Hengeveld 1992, Pustet 2003, Stassen 2005), hence that seems to be why some languages have no copulas, like Tagalog (Schachter 1985).

Many Asian languages employ "copulaless" constructions to express the specificational/ predicational/ equative relationship between two noun phrases (hereafter, "NPs"). Even those languages that have "copulaless" constructions sometimes allow the copula(s) to occur in certain conditions, which might be referred to as "copularization". However, such conditions vary from language to language.

Youle Jino¹ (the Lolo-Burmese branch of the Tibeto-Burman family, Xishuangbanna

Phonological inventory and typological features of Youle Jino are briefly summarized below.

[Phonological Inventory of Youle Jino]:

^{*} An earlier version of this paper was presented at the 41st International Conference on Sino-Tibetan Languages and Linguistics held at SOAS (London, United Kingdom) on September 18th, 2008). The original title was "Copula in Youle Jino". I thank Prof. Dr. Caroll Genetti for her insightful comments. All errors and misunderstandings are, of course, on my own.

¹ The Jino language has two main dialects: Youle and Buyuan. Gai (1986) estimates that the ninety percent of the speakers speaks the Youle dialect and the remainder Buyuan. The total number of the Jino nationality amounts to 20,899 (2000 census). Dai et. al. (2007) reports the socio-linguistic situation of Youle Jino and concludes that Youle Jino is not currently threatened by linguistic endangerment. However, considering the fact that every new Jino generation has less and less knowledge of this language, the present author thinks that it is difficult to be optimistic about the future of Youle Jino.

Consonants: /p, ph, t, th, k, kh; ts, tsh, t \int , tfh, tc, tch; m, m, n, n, n, n, n, η , η ; l_{v} ; f, v, s, z, \int , r, c, j, x, y, (w)/

Vowels: /i, e, ø, ε, œ, a, ə, ɔ, Υ, o, u, u/

Tonemes: /55, 44, 33, 35, 42/

Syllable Structure: (C1)(C2)V1(V2)(V3)(C3)/T <C2: -r- or -j-, C3: -n or -N>

[/]m,m, n,n/ can be syllabic nasals. As for the Youle Jino phonology, see Hayashi (2007, 2009).

[[]Typological Features of Youle Jino]:

Basic Constituent Order: SOV, Noun-Adjective, Possessive-Head Noun, Relative Clause-Head Noun

Jinghong [Yunnan, China]) has one copula, namely *ŋtt*55. As in many other languages, *ŋtt*55 is also a verb but behaves in a rather different way from other "ordinary" verbs.

This paper aims to provide a brief description of the Youle Jino copula $\eta tu55$ and analyze what motivates copularization in this language using first-hand data².

2. Previous Works — Gai (1986)

According to a previous study of Youle Jino by Gai (1986), there are four allomorphs relating to the copula: *ŋə42*, *ŋə44*, *ŋə35*, and *ŋa55*. He says that each variant is employed in different semantic contexts, although his explanation is somewhat insufficient. Gai's examples and analyses are briefly summarized below.

■ [ŋə42→ŋə44]

If the copula occurs with a negative or an interrogative marker, its tone changes to 44 tone, as in (1).

(1) a. <i>ce33</i>	r33	nə42	pə42	se55	me55	m344	t ŋə44 a.
this	PART	2SG.NOM	hit	kill	PART	NEG	COP
"This is not what you hit to death." (Gai 1986: 54)							
b. <i>çe33</i>	r33	nə42	pə42	se55	me55	ŋә44 ғ	€ <i>1a42</i> ?
this	PART	2SG.NOM	hit	kill	PART	COP	Q
"Is this what you hit to death?" (Gai 1986: 54)							

Morphological Features: Agglutinative (Verbal Complex)

² The present author has been carrying out linguistic research on the Jino language in a Jino village since 2000. I would like to thank Ms. Wang Azhen, who kindly taught me this language. She was born and grew up in the Jino village and is a fluent speaker of Jino and the Jinghong-Yunnan dialect of Chinese. Both of her parents are Jino and they are also my consultants. I would like to express my deepest gratitude to them. The study of the present author on the Jino language has been supported by Grant-in-Aid for Scientific Research from Japan Society for the Promotion of Science (2003 and 2005), Grant-in-Aid for Scientific Research from Japan Society for the Promotion of Science for the project entitled "Linguistic Substratum in Tibet" headed by Yasuhiko Nagano (2004 and 2007, 2008), Grant-in-Aid for Scientific Research from Japan Society for the Promotion of the Jino language and the study of Language Contact and Linguistic Typology contrasting other neighboring languages" (2009). This paper is mainly based on the data which I collected (2004–2009).

■ [ŋə42→ŋə35]

If the copula occurs in affirmative sentences, its tone changes to 35 tone, as in (2).

(2) ce33 r33 nə42 pə42 se55 mɛ55 ŋə35 a.
this PART 2SG.NOM hit kill PART COP
"This is what you hit to death." (Gai 1986: 54)

■ [ŋə42→ŋa55]

If the copula occurs in exclamative sentences, its form changes to $\eta a55$, as in (3).

(3) tfa42loe55 ce33 x33 nə42 pə42 se55 mɛ55 ŋa55.
Oh! this PART 2SG.NOM hit kill PART COP
"Oh! This is what you hit to death." (Gai 1986: 54)

■ [ŋə42]

If the copula occurs in declarative sentences, its tone does not change, as in (4).

(4) ce33 x33 nə42 pə42 se55 mɛ55 ŋə42 a.
 this PART 2SG.NOM hit kill PART COP
 "This is what you hit to death." (Gai 1986: 55)

The above examples seem to highlight the differences in tone, which according to Gai may correspond to modality³.

However, there are some problems in his analysis. According to my field notes, tonal alternation can usually occur irrespective of modality difference. It is difficult to predict, especially in the verbal complex. The present author is not investigating the relationship between the tonal alternation of the Youle Jino copula and modality difference. In addition, Gai describes only the morphophonological features of the Youle Jino copula, but does not explain its occurrence from morphosyntactic and semantic perspectives.

Hereafter this paper aims to describe the syntactic and semantic features of the Youle

³ In my field notes also, there are a certain number that are of examples of *ya55*, but at this point the present author considers that it is a kind of amalgamation— that is, yux55 + a.

Jino copula and analyze what motivates its occurrence.

3. Formal Description

In this section, the characteristics of the Youle Jino copula $guu55^4$ will be syntactically or formally described in two contexts: guu55 following NP and guu55 following non-NP.

3.1 nm55 following NP

The Youle Jino copula *ŋut55* frequently occurs after NPs to denote specificational, predicational, and equative relationships between two NPs, as in (5).

- (5) a. *çi44 ri33pen35 tshə33zə55 ŋu33-nœ44.* this Japan people COP-SFP "This is a Japanese people."
 - b. *li33yun42 tshə33zə55 la55xv44 gu33-næ44.* Liyun (PSN) person big COP-SFP "Liyun is a big person."
 - c. *pu55tche55=jə44 ki55no55 ma55tfhə44 tce42-jə44 mu33-næ44. Tai Lue people=and Jino people friend very-good COP-SFP "Tai Lue people and Jino people are very good friends."*

In (5), the copula $\eta u 55$ with the sentence-final particle $-n \alpha 44$ gives the sentence a predicate construction. In (5a), NP1 is *ci44* and NP2 is *ri33pen35 tsho33zo55*. In (5b), NP1 is *li33yun42* and NP2 is *tsho33zo55 la55xv44*. In addition, in (5c), NP1 is *pu55tche55=jo44 ki55no55* and NP2 is *ma55tfho44 tce42-jo44*. The copula clearly expresses the relationship between the two NPs.

However, in the following example, if the relationship between the NPs can be construed from a semantic and a pragmatic viewpoint, the copula should be considered to occur optionally.

⁴ The tone of Youle Jino copula usually alters, such as $\eta u 33 \sim \eta u 35 \sim \eta u 42$. This paper recognizes that the basic tone is 55 and there is no semantic difference in tonal variations of the copula.

(6) *çi44 ri33pen35 tshə33zə55.*this Japan.OBL people"This is a Japanese people."

In (6), the relationship between NP1 and NP2 can be easily construed from the context, hence the copula is not necessary; however, this is not the case in negative sentences, as illustrated in (8) below.

In (7), which is considered to be an example of a pseudo-cleft sentence, the NPs in the focus position (the <u>underlined</u> elements) can be followed by the copula *ŋu155*.

(7) a. khr44 tce33xun35-mr55 lao33ta35 nm33-næ44. the oldest child COP-SFP that marry- NML "That person who married is his/her oldest child." b. *a33ŋu55 ci55-lo44 khœ33-mγ44 ci55-lo44 ητα33=ε44.* 1PLINCLNOM this-like do-NML this-like COP=POSS "It is in this way that we do." c. m44t[i44 ke33-my55 mi33tha55 xo33-my35 **пш33-**nœ44. ground slide-NML rain (n.) rain (v.)-PAST COP-SFP "Why the land slid is because it rained."

On the one hand, the relationship between NP1 and NP2 in affirmative sentences can be expressed by copulaless constructions (that is, with no overt copulas) as in (6), but on the other hand, the relationship in sentences with the tense/ aspect/ modality markers must be expressed by the copula.

The following examples (8)-(11) are copulative sentences with the tense/ aspect/ modality markers.

[negative: mo-]

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(8) a. kan55tshao33phjen35 <u>mo33</u>-ŋu55-a44.
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Gancaopian (drug name) NEG-COP-PART "(That) is not a Gancaopian [medicine for a cough]." b. pa55to44=a44 <u>mo33</u>-yuu55-a44.
Baduo (PLN)=VA NEG-COP-PART "(That) is not Baduo [PLN]."
c. khr44 <u>mo33</u>-yuu55-mr42, ya55vu44 jin33nan33=ɛ55 that NEG-COP-COND 1PL.EXCL.NOM Yunnan=POSS fao35su35min33tsu33 phu33thoy33xua35 mo55-pja42. minority Putonghua (standard Chinese) NEG-speak "Otherwise, we minorities of Yunnan do not speak Putonghua."

[past: $-m\gamma \sim -m\varepsilon$]

a. *li33çə55* **ητα33-**mε35. (9) four hundred COP-PAST "(What he gave me) was four hundred yen." b. ko33-ki55 li33-jen35 ntu33-me35. each-CL four-yen COP-PAST "It was four yen per five hundred grams." mə55-pan33-vu44, ŋa55vu44 thi55ma55 **nui33**-mɛ35. c.ji55ſi55 the former days NEG-move-RES 1PL.EXCL.NOM many COP-PAST "When I did not move (here), (the members of) our family amount to many."

[perfect: -xa]

(10) a. *ŋo33tshv55khjo33-mjo55 ŋtu33-xo42, ŋo35=jo55 thi33tfho55* fifty six-CL COP-COND 1SG.OBL=and same *ŋtu33-xa44.* COP-PFT
"If (your father) is fifty-five years old, then he is as old as I!"
b. *ne35 ŋtu33-me55 ŋtu33-xa55.* 2SG.OBL COP-NML COP-PFT
"(Those things) have become yours." [experience: -to]

a. zo55ku55 fui55-ko44-my44 mi55na44 **nui35**-to44-a44. (11)child take-PROG-NML Mina (PSN) COP-EXP-PART "The person who is taking a child is Mina (as is expected)." b. a55ke55+ko55tø44=r44 thi33t(ho35 **nui35**-to44-a44. clothes+clothes=TOP same COP-EXP-PART "Clothes are the same as other minorities (as is expected)." c. pra33-mjə42, tci35-ə44. li33-tsui55 **nui35**-tə44-a44. chop-SEQ slice-PART 4-CL COP-EXP-PART "After (we) chop the tree, then we will slice it (with a sword). There are four (trees) left."

As shown above in (8)-(11), the copula follows NP2 and expresses the relationship between NP1 (or nominalized element) and NP2, though in some cases NP1 is covert in the sentence (for instance, 8a, 9a, 10b, 11c, etc.). Underlined forms in each example, namely $m\sigma$ -, $-m\tau \sim -m\varepsilon$, $-m\epsilon$, $-m\epsilon$, -xa, $-t\sigma$, are all tense/ aspect/ modality markers that cannot be directly attached to nominals. They are all verbal affixes, hence they require verbal roots when attached. Noun phrases can construct sentences by themselves in Youle Jino, but in order to express tense/ aspect/ modality, the copula $\eta tur55$ is obligatory.

3.2 nm55 following non-NP

The copula is naturally more likely to occur after NPs, but it is important to note that in Youle Jino the copula can occur after non-NPs.

Firstly, it should be pointed out that there are examples where a noun phrase and a citation form of adjective can be linked by the copula, as in (12).

(12) a. *çi44+p344 f333khi55 a33krø55 ga33-næ44.* this+around foot slippery COP-SFP "It is slippery here." b. no33to55 a55tshv55 gur33-nœ44.
nose stuffed up COP-SFP
"(My) nose is stuffed up."
c. tjao35+ju44-mv44 go55tv55 to33mo33 a33ni55 gur33-nœ44.
fish (v.)+take-REL fish (n.) all small COP-SFP
"The fish that (we) fished are all small."

Youle Jino adjectives consist of a nominalizing prefix (*a*-, *ia*-, *ja*-) and a stative verbal root, hence they should be considered to belong to a subclass of verb. In (12), all three sentences allow the occurrence of $\eta tat55$ after the citation form of adjectives, which makes us view these examples as sentences with the copula following non-NPs. It may be true in a sense, but the citation form of adjectives behaves like a nominal since it is already nominalized; hence its occurrence with the copula should rather be likened to the case of the copula following NPs. In these cases, the copula $\eta tat55$ functions as predicator of the sentence.

Secondly, we should note that the Youle Jino copula can occur after the verbal complex. When expressing so-called "relative tense", Youle Jino makes the copula carry the past suffix $-mr \sim -m\epsilon$.

(13) a. *lø55 pa55kha42 fur55+le42-me44 gur33-me35.* that Baka (PLN) take+go-FUT COP-PAST "(If you did not go back from here), (we) would have taken you to the Baka village."
b. *mi55tso55 fur55+tçi35+le44-me44 gur33-me35.* firewood take+slice+go-FUT COP-PAST "(If he did not go to Mengyang early in the morning,) we would have taken him to go to slice firewood."

Both sentences in (13) express the expectation in the past, and in the end denote the counterfactual meaning. The copula *nur55* seemingly follows the non-NP ending with the future suffix *-me*, but it should be noted that both the past tense marker *-mr* \sim *-me*

and the future tense marker -me act as nominalizer⁵ in Youle Jino morphosyntax. If we posit that the phrase ending with a nominalizer is a kind of NP, the phrase preceding the copula *nur55* in (13) should be considered as a NP, and therefore (13) should be described in **3.1** from a syntactic perspective.

Thirdly, we should mention that there are several examples where the copula can occur directly after the verbal complex, forming what appears to be a serial verb construction.

(14) a. *ja33jen55 mao33* **yux33**=ɛ55-po42.
opium swirl (head) COP=POSS-RCF
"(Their heads) may swirl (by smoking) opium."
b. *a33pjo55 lə44-tɛ55-kə44* **yux33**=ɛ55 tx55-ə44,
book all the way-look-PROG COP=POSS probably-PART *mo33-ji55-a44.*NEG-sleep-PART
"(I assume that) you probably keep reading books without sleeping."

As is illustrated in (14), the copula yur55 directly follows the verbal complex. In (14a), mao33 "swirl (head)" is a verb, hence it might be assumed that the string mao33 yur33 forms a verb serialization. Moreover, in (14b), la44 te55 ka44 "all the way-look-PROG" is also a verbal complex, so that la44 te55 ka44 yur33 could be considered to be a serial verb construction. However, this is not the case. In natural conversation in Youle Jino, as in (14), the copula yur55 often occurs directly after the non-NP in order to express the speaker's modality or his/ her own ideas.

4. Discussions and Analyses From Synchronic, Typological, and Areal Perspectives

In section **3**, the occurrence of the Youle Jino copula has been described formally, whereas in this section, it will be discussed and analyzed from much wider perspectives, namely, synchronic, typological, and areal ones.

⁵ - $m\gamma$ ~- $m\varepsilon$ functions as nominalizer, complementizer, relativizer, and past tense marker. As for the polyfunctionality of - $m\gamma$ ~- $m\varepsilon$, see Hayashi (2006).

4.1 Morphosyntactic Motivation

In this subsection, copularization in Youle Jino will be analyzed from the point of view of syntactic motivation.

In Youle Jino, the tense/ aspect/ modality affixes can only be added to the verbal root. Therefore, for instance, if we wish to express the past state of the relationship between two NPs, we must employ a verb that is able to carry the past tense suffix, although this verb should not have a content meaning. Hence, it should be a copula. Examples (8)-(11) illustrate this phenomenon.

What is more, the tense suffixes, namely $-mr \sim -me$ and -me, occupy the same slot in the verbal complex, hence if we use both suffixes at the same time in a sentence, we must set up a copula to carry either suffix, as was illustrated in (13).

From a typological perspective (Pustet 2003), copulas tend to follow or precede nouns, whereas they do not easily follow or precede verbs. On the one hand, the most frequent case in Youle Jino is the occurrence of *pur55* directly after NPs; *pur55* can also occur directly after the citation form of adjectives, which syntactically behaves in the same way as nouns.

(15) a. *z*55*k*u55 <u>a33ni55</u> {φ/ **μu33**-nœ44}. child small {φ/ COP-SFP} "The child is small."
b. *k*255*t*Ø44 <u>a33nv55</u> {φ/ **μu33**-nœ44}. clothes red {φ/ COP-SFP} "The clothes are red."

As in (15), the copula can occur after the citation form of adjectives, for example *a33ni55* and *a33nv55*, although in these examples the copulaless construction sounds more natural.

On the other hand, it is difficult for *ŋttr55* to follow the verb phrases, although there are some examples in which it does, as in (14).

According to my field notes, there is a gradience of acceptability in the examples where $\eta u 55$ follows the verbs.

(16)a. mi55[555n44 tcin33xon44 le33-me35 **nu133**=e44. tomorrow Jinghong go-FUT COP=POSS b. mi55[555n44 tçin33xon44 le33=e55 nm33=e44. Jinghong go=POSS COP=POSS tomorrow c. [?/OK] mi55[555n44 tcin33xon44 le33 nur33=e44. tomorrow Jinghong COP=POSS go "He/She will probably go to Jinghong tomorrow."

(17) a. *çi44 a55ke55 mrɛ55+mrɛ35-a44*. this dish delicious+delicious.RDP-PART "This dish is very delicious."
b. *çi44 a55ke55 mrɛ33-ms·35-a44 ŋuɪ33=ε44*. this dish delicious-AUX-PART COP=POSS
c. [?/OK] *çi44 a55ke55 mrɛ55+mrɛ35 ŋuɪ33=ε44*. this dish delicious+delicious.RDP COP=POSS "This dish is probably delicious."

In (16), (16a) is the most acceptable. (16b) sounds more natural than (16c), although the latter is not completely unacceptable. In (16a) and (16b), the elements before the copula end with the future suffix *-me* and the possessive marker $=\varepsilon 44$, which syntactically function as a nominalizer. Hence, the copula can easily follow elements ending with these suffixes. On the other hand, in (16c), the element before the copula is a verb, making this sentence less acceptable than the two previous ones.

This holds true in (17). (17a) and (17b, c) have different readings respectively, although the latter two sentences can be semantically construed as the same. The former has fewer modality readings, whereas the latter two have high modality⁶. In (17b), the element before the copula ends with the particle *-a*, which generally marks the end of the nominal predicate, while in (17c), the element is a reduplicated verb, which syntactically precedes the copula with a lot of difficulty.

In summary, from a morphosyntactic perspective, since the tense/ aspect/ modality markers are verbal affixes, the Youle Jino copula is employed to carry them. And in

⁶ The fact that the Youle Jino copula can function as a high-modality marker will be discussed and analyzed in **4.2.1**.

addition, the Youle Jino copula can follow nouns and the citation form of adjectives much more easily than it can follow verbs.

4.2 Semantic and Pragmatic Motivation

In this subsection, we will investigate how the occurrence of the Youle Jino copula should be semantically and pragmatically motivated from three dimensions.

4.2.1 Characterizational/ Identificational or High Modality/ Low Modality --- with reference to Thai linguistic studies ---

The occurrence of the Youle Jino copula shall be related not only to syntactic conditions, but also to semantic ones. In Southeast Asian languages, copulas are chosen by semantic conditions rather than by syntactic or formal ones.

Previous works (Kuno and Wongkhomthong 1981, Mikami 1985, Komolwanig and Sawada 1993, Takahashi and Shinzato 2003⁷) have been published on the two copulas of Standard Thai, namely *khuttut* and *pen*. In Standard Thai, a copula is inserted between the two NPs, that is, *[NP1--Copula--NP2]*. Kuno and Wongkhomthong and Mikami state that *pen* (coined as *C-Copula*) characterizes the features of NP1 as NP2, whereas *khuttut* (coined as *I-Copula*) identifies NP1 as NP2. Mikami investigates the notion that NP1 in the *khuttut* sentences should be either non-referential or referential, while NP1 in the *pen* sentences should be referential. Moreover, he argues that NP2 in the *pen* sentences should be non-referential. Komolwanig and Sawada point out that Mikami's analysis is somewhat problematic in that he did not define the concepts "referential" and "non-referential" clearly, and that the difference between *khuttut* and *pen* should be analyzed from a contextual viewpoint rather than the semantic one that he adopts. Komolwanig and Sawada claim that *pen* involves <LOW MODALITY>, given that *pen* co-occurs with modal elements,

⁷ Takahashi and Shinzato (2003) employs the cognitive psychological concepts (though actually they do not present any experimental data) to reveal their difference and concludes that *pen* relates to thought-like processing, whereas *khunui* to sensation. Their idea may be plausible in the analysis of Standard Thai copulas, but this paper has not made psychological experiments on the usage of Youle Jino copula, hence this point of view will not be discussed any further here.

while khunu does not.

These previous works on Standard Thai copulas may be useful for the semantic and pragmatic analysis of the Youle Jino copula, but it should be noted that Youle Jino has only one copula, *ŋuu55*; we therefore need to investigate to what extent the presence and absence of *ŋuu55* correspond to *pen* and *khunu* in Standard Thai.

Firstly, Kuno and Wongkhomthong and Mikami mention the relationship between the specificity/ referentiality of the NPs and the choice of copula in the Thai language. Also, in other languages, Nishiyama (2003) discusses this relationship in Japanese semantics and pragmatics, and Mikkelsen (2005) investigates it from typological and theoretical perspectives. However, it is safe to say that the occurrence of the Youle Jino copula is not related to the specificity/ referentiality of the NPs, as will be shown in (18)-(20).

(18)	a. <i>fen35tfhvy44 tq</i> center of the prefecture J "The center of the prefectu	8 8 9	{φ/ ŋτα33- næ44}. {φ/ COP-SFP}
	b. 10335 1033si55 tfə5. 1SG.OBL teacher Zheb "My teacher is Zhebai."	1 (7 5	m33- næ44}. OP-SFP}
(19)	a. <i>khv33po44 xe55-to44-m</i> over there stand-EXP-REI "The person standing over	Asan (PSN)	{φ/ ŋm33- næ44}. {φ/ COP-SFP}

b. *khr33po44 kha33+lo55-ko44-mr44 tfo55po44 {\phi/ gur33-nce44}.* over there pass+come-PROG-REL Zhebai (PSN) { ϕ / COP-SFP} "The person coming from there is Asan."

- (20) a. tf = 55p = 44 kh=55ph = 55 { φ / gu = 33-n = 44}. Zhebai (PSN) adult man { φ / COP-SFP} "Zhebai is an adult man."
 - b. ci55u44 khr42 lo33si55 { ϕ / gma33-nce44}. now he/she teacher { ϕ / COP-SFP} "Now he/she is a teacher."

In (18)-(20), both the copulative and copulaless constructions are grammatical and acceptable, although the former sound slightly more natural. Using Mikami's terms, in (18), NP1 is "non-referential" and NP2 is "referential". In (19), both NP1 and NP2 are "referential". In (20), NP1 is "referential" and NP2 is "non-referential". According to Mikami's analysis, in Standard Thai (also in Lao and Cambodian), I-Copula (*khumu* in Standard Thai) should be employed in (18) and (19)⁸, while C-Copula (*pen* in Standard Thai) is preferred in $(20)^9$. However, as seen in (18)-(20), the referentiality of the NPs is not related to the occurrence of the Youle Jino copula. Therefore, Mikami's analysis may not be applicable here.

Secondly, we will investigate whether the analysis of Thai copulas by Komolwanig and Sawada is applicable to the analysis of the Youle Jino copula. As mentioned above, Komolwanig and Sawada conclude that *pen* involves <HIGH MODALITY> and *khuttut* <LOW MODALITY>, on the grounds that *pen* co-occurs with modal elements, while *khuttut* does not. If we refer to their analysis, the presence of the Youle Jino copula may involve <HIGH MODALITY>, and its absence <LOW MODALITY>. As modal elements of Youle Jino can only be affixed to the verbal roots, and the Youle Jino copula *nut* involve *nut*.

- *mutaŋ lửaŋ khooŋ yîipun <u>khutu</u> tookiaw* [Standard Thai] capital of Japan COP Tokyo "The capital of Japan is Tokyo."
- ii) khon thìi yuuun yùu thìi nân khunu khun A [Standard Thai] person REL stand stay PART there COP Mr./Ms. A "The person standing over there is Mr./ Ms. A"

On the one hand, in (i), NP1 is <non-referential>, while NP2 is <referential>. On the other hand, in (ii), both NP1 and NP2 are <referential>. Hence, *khunu* is employed in both examples.

⁹ In Standard Thai, if NP1 is <referential> and NP2 is <non-referential>, C-Copula (*pen*) should be employed (Mikami 1985). The following example is glossed and transliterated by the present author.

 khon nán <u>pen</u> khruu [Standard Thai] person that COP teacher "That person is a teacher."

In (i), NP1 is <referential> and NP2 is <non-referential>, hence pen is employed here.

⁸ In Standard Thai, if NP2 is <referential>, I-Copula (*khttttt*) should be employed (Mikami 1985). Following examples are glossed and transliterated by the present author.

<HIGH MODALITY>¹⁰, not only from semantic and pragmatic perspectives, but also from morphosyntactic ones.

(21) a. kan55tshao33phjen35 <u>mo33</u>-ŋux55-a44. (=8a) Gancaopian (drug name) NEG-COP-PART "(That) is not a Gancaopian [medicine for a cough]."
b. *kan55tshao33phjen35 <u>mo33</u>¹¹.

Since the negative prefix is a verbal affix, (21a), in which it is affixed to the copula, is grammatical; however, (21b), in which it is not, is ungrammatical. Hence, in general, the Youle Jino copula involves <HIGH MODALITY>, and copulaless constructions <LOW MODALITY>. The tense and aspect markers basically behave in the same way as modality markers in this language, therefore cases with tense and aspect markers can be included in <HIGH MODALITY>.

In natural conversation data, there are many examples where the copula co-occurs with the possessive marker $=\varepsilon 44$ to express the speaker's viewpoint or modality, as is briefly mentioned at the end of **4.1**.

(22) a. ki55qo55=e55 yuu55=e55 t/hx33-a44. Jino people=POSS COP=POSS similar-PART
"(She) seems to be a Jino people."
b. ya55ve55 mo35-a44. jo33ma55=e55 yuu33=e55 t/hx33-a44. IPL.EXCL.OBL NEG.COP-PART 3PL.NOM=POSS COP=POSS similar-PART
"It is not at our house (that the telephone is ringing). Maybe it is at their house."

¹⁰ Zhang (2005) also, using the data of Sino-Tibetan languages spoken in China, claims that the copulative construction involves speaker's viewpoint or modality, though the way of analysis is rather different from Komolwanig and Sawada (1993).

¹¹ In the natural conversation of Youle Jino, the form $m_{23}5$ -a44 is frequently employed and the former element $m_{23}5$ can be analyzed as a fusion form of negative m_{2} - and the copula $\eta m_{25}5$, which is deserved to be noticed.

(23)a. *khø33mjə55 thi33-phu44 ŋuɪ33=ɛ55* tx 55-044. then 1-CL COP=POSS surely-PART "Then, (they) surely (live in) the same village (as ours)." b. *kha55kvi44 a55khv55=la55 na55vu44=a44* thi33pju35 Hani people Ake people=in other words 1PL.EXCL.NOM=VA together tx55-344. **ητα33**=ε55 COP=POSS surely-PART "The Hani people and the Ake people maybe enjoy (the new year festival) the same way as we (Jino people)."

(24) a. jε55me44-ma55 fao33xon33 jo33ma55 thi55ma55 Yanmei (PSN)-PL Xiaohong (PSN) 3PL.NOM many ku33-**nm55**=ε44. again-COP=POSS
"There surely go again a lot of Yanmei and Xiaohong's friends."
b. a55na55 m33-mtu35-me55 **nmu33**=ε44. self(3) CAUS-ring-PAST COP=POSS
"I am sure that he/she rang it by himself/ herself."

c. *tçao55+tu35 mɔ35-a44, a33fu55 ŋu33=e44.* water (v.)+go out NEG.COP-PART yellow COP=POSS "If you do not water (the gray wax gourds), they will grow yellow."

In (22), the speaker's guess is expressed by the phrase $\eta ur55/\eta ur33=\varepsilon55$ tf/hr33-a44, while in (23), his/her strong assumption is expressed by the phrase $\eta ur33=\varepsilon55$ tr55-o44. Each example contains the other phrases (tf/hr33-a44, tr55-o44), which express the strength of the speaker's assumption; however, even if the phrases following the copula do not occur, the speaker's assumption or guess can be expressed, as in (24).

Example (25) below illustrates that the phrase $\eta t \pi 33 = \varepsilon 44$ can express the speaker's question.

(16)

b. $su55fao33r35=\varepsilon55$ zo55ku55 $gu33=\varepsilon44$? Suxiaoe (PSN)=POSS child COP=POSS "Is (he) Suxiaoe's child?"

Both sentences in (25) can be considered as a kind of interrogative sentence, although the construction is the same as (24). This reinforces the idea that the copula can mark the speaker's modality, but the context may play a part in determining what kind of modality is expressed by the copula.

In addition, the fact that the Youle Jino copula can be employed to reply to the previous utterance supports the notion of its involvement in <HIGH MODALITY>.

(26) a. *342, gur33-a44-te42.*

Oh COP-PART-PART

"Oh, that's right!"

- b. **gua33**-a44-te42. g_{0} f_{i} f_{i}
- (27) a. mo33-yu55-a44. ci55-lo44 fi35-me55 yur55-o44. NEG-COP-PART this-like die-PAST COP-PART "That is not true. It is when (you) die like this."
 b. mo33-yur55-xo42, vai35 mo33-khju55-a44. NEG-COP-COND quick NEG-AUX-PART "(If you live in the village, you will be able to speak Jino.) If not, (you) will not be able to (master it so) quickly."

Both (26) and (27) are replies to the previous utterance. In (26), the speaker employs the copula to agree with the previous speaker. In (27), the speaker uses the negative prefixed copula to deny the proposition of the previous utterance. Each case illustrates that the copula expresses the speaker's viewpoint or modality.

As seen in **3.2**, in the natural conversation data, there are numerous examples where the copula follows the verbal elements to express the speaker's viewpoint or modality, although the modality markers in Youle Jino can be directly affixed to the verbal root.

To summarize, the Youle Jino copula can generally be employed to mark the speaker's modality.

4.2.2 Temporal/ Permanent Dichotomy

In many languages with more than one copula, the function of copulas differs in temporal/ permanent dichotomy. Some argue that such dichotomy can be paraphrased as changeable/ stable. In the literature of some European languages, such dichotomy is applicable, for example, *ser/ estar* in Spanish and *is/ tá* in Irish, both of which date back to two Latin copulas, *esse/ stāre*. The next two examples, (28, 29), will illustrate that temporality may relate to the occurrence of the Youle Jino copula.

(28) a. waŋ35lə33si55 khə55phə55. Mr. Wang (teacher) man
b. waŋ35lə33si55 khə55phə55 yuu33-næ44. Mr. Wang (teacher) man COP-SFP
"Mr. Wang (teacher) is a(n adult) man."

(29) a. waŋ35lo33si55 jo33kha33. Mr. Wang (teacher) old
b. waŋ35lo33si55 jo33kha33 ŋua33-nœ44. Mr. Wang (teacher) old COP-SFP
"Mr. Wang (teacher) is old."

From a grammatical viewpoint, all of the sentences in (28) and (29) are correct. However, from semantic and pragmatic perspectives, (28a) is preferable to (28b), whereas (29b) is preferable to (29a). This may be because human beings do not change their gender, whereas age is changeable or has a temporal feature.

Naturally, there are some "challenging" examples.

(30) a. *çi44 tso33 a33fi55.* this house new b. *çi44 tso33 a33fi55 gu33-nœ44.* this house new COP-SFP "This house is new."

Both sentences in (30) are syntactically correct. Everything gets older as time goes by, hence these sentences can be considered to have a temporal context, so that (30b) would sound more natural. However, in fact, (30a) sounds slightly more natural than (30b). This is because the citation form of adjectives is usually placed at the predicate position without any elements. The reason why (30a) is more natural has nothing to do with temporality.

The next example (31) should relate to temporality, although it is very similar to (30).

(31) a. *çi44 tso33 çi55u44 a33fi55. sø33-mj555 ŋu33-x542, a33fi55.* this house now new three-CL COP-COND old
b.*çi44 tso33 çi55u44 a33fi55 ŋu33-nœ44.* this house now new COP-SFP *sø33-mj555 ŋu33-x542, a33fi55.* three-CL COP-COND old "Now, this house is new. (But) in three years, (it will) be old."

According to my linguistic consultant's intuition, (31b) sounds more natural than (31a). This example contains a temporal expression, namely *ci55u44* "now", and the first sentence is contrasted with the second one. It should be pointed out that the clarification of temporality should cause the Youle Jino copula to occur naturally in (31b).

This logic holds true in (32) and (33).

(32) a. ci44 a55san35= ϵ 55. this Asan.OBL(PSN)=POSS b. ci44 a55san35= ϵ 55 **gm33**-ncc44. this Asan.OBL(PSN)=POSS COP-SFP "This is Asan's (stuff)." (33) a. *çi55u44 çi44 a55san35=ɛ55*. Now this Asan.OBL(PSN)=POSS
b. *çi55u44 çi44 a55san35=ɛ55 ŋш33-nœ44*. Now this Asan.OBL(PSN)=POSS COP-SFP "This is Asan's (stuff) now."

All four sentences in (32) and (33) are grammatical, but (32a) is preferable to (32b), while (33b) is preferable to (33a). On the one hand, in general, the affiliation of "stuff" cannot be changed; hence, as in (32a), the copula does not occur. The absence of the copula denotes permanence. On the other hand, in (33), which contains a temporal adverb *ci55u44* "now", the presence of the copula, which denotes temporality, is preferable to its absence¹².

¹² The presence of the copula is almost always preferable to its absence when expressing temporality, but in a contrastive sentence this is not always so.

i)	<i>çi55u44 çi44</i>	a55san44=ɛ55.	ne33mjə55 k	hr35=e55	zə55ku55=ɛ55.
	now this	Asan (PSN)=POSS	next year 3S	G.OBL=POSS	child=POSS
ii)	<i>çi55u44 çi44</i>	a55san44=ɛ55	ŋɯ33- næ44.	nɛ33mjɔ55	khx35=ɛ55
	now this	Asan (PSN)=POSS	COP-SFP	next year	3SG.OBL=POSS
	zə55ku55=e:	55 ŋɯ33- nœ44.			
	shild-poor o	OD CED			

child=POSS COP-SFP

"This is Asan's (stuff) now, but it will be his/her child's next year."

According to my consultant's intuition, (i) may be preferable to (ii), which might contradict the discussion above. It can be arguable that the contrastive sentences expressing the affiliation of a stuff are exceptions to temporality analysis of Youle Jino copula.

On the other hand, we can add one more example of the contrastive sentence here.

- iii) *çi44 sut55kho55, tho55kho55 mo33-ŋut55-a44.*
 - this cucumber wax gourd NEG-COP-PART
- iv) *çi44 stu55kho55 ŋu33-nœ44, tho55kho55 mo33-ŋu55-a44.
 this cucumber COP-SFP wax gourd NEG-COP-PART "This is a cucumber, not a wax gourd."*

Both (iii) and (iv) are contrastive sentences, and the former is preferable to the latter. In this case, NPs have the permanent feature, hence the absence of the copula in (iii) should be plausible in the temporality analysis. However, if we look at (i) and (iii) from the viewpoint of contrastive constructions, the absence of the copula may be affected by the same motivation.

Pustet (2002) argues that Sgaw Karen (Karenic, Tibeto-Burman) copulas, *mewæ*: and $kx\vec{e'}$, relate to autonomy vs. dependency dichotomy, and points out that $kx\vec{e'}$ has contrastive reading when employed. The contrastive reading might involve the absence of Youle Jino copula, although it demands further research.

In summary, use of the Youle Jino copula *ŋu155* is preferred when expressing temporality, but the copula is generally omitted when expressing permanence.

4.2.3 Focus/ Non-Focus Dichotomy

Many Sino-Tibetan languages employ copula(s) to mark focus elements (Li and Thompson 1981, Zhang 2005, etc.). In Mandarin Chinese, the elements between the copula *shì* and the particle *de* can be construed as the focus in the sentence (Li and Thompson 1981, Chu 1987, etc.).

In Youle Jino, the copula generally occurs to clarify the focus elements in the sentence, as in (34, 35).

(34)	a. <i>ji55ņ44</i>	pa55kha42	le44-mx44	a55san44.	
	yesterday	Baka (PLN)	go-NML	Asan (PSN)	
	b. <i>ji55ņ44</i>	pa55kha42	le44-mx44	4 a55san44	ŋɯ33- nœ44.
	yesterday	Baka (PLN)	go-NML	Asan (PSN)	COP-SFP
	"It was As	an that went to	o the Baka vi	llage yesterd	ay."

(35)	a. <i>ji55ņ44</i>	13a55vu44	ko33+1a33-mv44	! <i>155p</i> 044.	
	yesterday	1SG.EXCL.NOM	take+come-NML	tea (leaf)	
	b. <i>ji55ņ44</i>	13a55vu44	ko33+1a33-mv44	4 <i>1</i> ə55po44	ŋu133- nœ44.
	yesterday	1SG.EXCL.NOM	take+come-NML	tea (leaf)	COP-SFP
"It was tea leaf that we brought here yesterday."					

Both (34) and (35) are pseudo-cleft sentences and prefer the occurrence of the copula (34b, 35b) to its absence (34a, 35a). *a55san44* "Asan" in (34) and *l555po44* "tea leaf" in (35) are construed as the focus, which can be analyzed as new information in the discourse. In Youle Jino, the focus element can be considered to be preferably followed by the copula.

However, it should be noted that in some cases the temporal/ permanent dichotomy defeats the focus/ non-focus one, as in (36) below.

(36) a.[Question] *ci44 kho55tcttt4-a44?* this what-Q "What is this?" b. [Answer 1] *çi44 <u>ŋa33stt155</u>.* this banana "This is a banana."
c. [Answer 2] [?/OK] *çi44 <u>ŋa33stt155</u> ŋtt133-nœ44.* this banana COP-SFP "This is a banana."

Example (36) contains a question and two possible replies. The speaker in (36a) asks, "What is this?", and each speaker in (36b) and (36c) answers, "This is a banana". Therefore, the underlined NP in (36b, c), namely *ŋa33sttr55*, should be construed as the focus. If the focus/ non-focus account could be adopted in this case, (36c) would sound more natural than (36b). However, (36b) actually sounds more natural than (36c). This leads us to conclude that the temporal/ permanent account plays a more important role in determining whether the copula occurs or not.

To summarize, use of the Youle Jino copula is also preferred to clarify the focus element in a sentence, although this is not always the case when the NP that is considered to have the permanent feature precedes it.

5. Conclusions

As discussed above, this paper focuses on briefly describing the Youle Jino copula, and concludes that the occurrence of the copula can be related to the factors exemplified in (37) and (38).

[Morphosyntactic Factor]

(37) Verbal affixing

[Semantic/ Pragmatic Factors]

(38) a. High modality (<High modal context>)

b. Temporality (<Temporal NP>)

c. Focus (<Focus NP>)

High modality, temporality, and focus belong to different dimensions; hence, in the present paper, unlike in other previous works on East and Southeast Asian languages, it

might be better not to conclude to which semantic/ pragmatic factor the occurrence of the Youle Jino copula is most related. However, it is arguable that the specificity or referentiality of NPs is not a determining factor for the occurrence of the Youle Jino copula, and that greater importance should be attached to temporality (that is, a permanent NP) rather than focus in establishing whether the copula occurs or not.

This paper without doubt has residual issues. From a synchronic viewpoint, we should determine whether there is an internal hierarchy between high modality, temporality, and focus relating to the occurrence of the Youle Jino copula¹³. In addition, from a diachronic perspective, the Youle Jino copula may relate to the Burmese copula *hut*, Hani *nu*55 (Dai 1995), and Zaozou *ne*53 (Sun et al. 2002), but it is very difficult to link it genetically to the Tibetan copulas *yin/ red*, Sgaw Karen *mewæt/ kæ*² (Pustet 2002) and so on¹⁴. Thurgood (1982) reconstructed * *wəy* for the Proto-Sino-Tibetan copula, which is compatible with the Proto-Loloish form * *wəy*³ reconstructed by Bradley (1979); however, his reconstructed form might be related to the Youle Jino possessive marker =*e*44, which can occur at the sentence-final position as a modality marker¹⁵. It may be speculated that the Proto-Lolo-Burmese form of the copula can be reconstructed as **nut*¹⁶, but this obviously requires further investigation.

¹³ There exists another synchronic problem. Clark (1996) argues that Vietnamese *thi* can function as an emphatic copula, along with the unmarked copula *là*. According to her analysis, Vietnamese *thi* can be normally considered a conjunction, translatable like "be then", but it is often employed for characterizing NPs.

Youle Jino has an enclitic that is very similar to Vietnamese *thi*, namely =la55, though its synchronic relationship and interface with the copula *yttr55* would benefit from future research.

 ¹⁴ Lowes (2006) illustrates the geographical distribution of Tibeto-Burman copulas to investigate their phonological reconstruction, though her analysis is a still ongoing process.
 ¹⁵ On the morphosyntactic function and diachronic analysis of Youle Jino "possessive"

For the morphosyntactic function and diachronic analysis of Youle Jino possessive marker $=\varepsilon 44$, see Hayashi (in print).

¹⁶ This proto-form can be attested in many Lolo-Burmese languages, such as Burmese *hut*, Achang $\mu e^{2}55$, Bola *not55*, Zaiwa <u>nut55</u>, Yi (Nuosu) <u>nur33</u>, Lisu <u>nar33</u>, Hani <u>nur55</u>, and Jino <u>nur55</u>. The data of Achang, Bola, Zaiwa, Yi (Nuosu), Lisu, and Hani are from Huang (1992: 543). Matisoff (2003) recontructed *s-rut for the PTB copula, which seems incompatible with the Youle Jino <u>nur55</u>.

Abbreviations

(*) marks an ungrammatical sentence, (-) an affix or particle boundary, (=) a clific boundary, and (+) a root boundary.

AUX : auxiliary, CL : classifier, COND : condition, EXCL : exclusive, EXP : experience, FUT : future, INCL : inclusive, NEG : negative, NML : nominalizer, NOM : nominative, NP: noun phrase, OBL : oblique, PART : particle, PAST : past, PFT : perfective, PL : plural, PLN : place name, POSS : possessive, PROG : progressive, PSN : person name, Q : question, RCF : reconfirmative, RDP : reduplication, REL : relative marker, RES : reason, SEQ : sequence, SFP : sentence final particle, SG : singular, TOP : topic, VA :=va55 (accusative, dative, locative)

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