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Mermaid construction in nDrapa

Satoko Shirai Reitaku University

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1. Introduction

Tsunoda (this volume-a) proposes that the prototypical mermaid construction (MMC) has the three following properties.

- (a) It has the structure shown in (1).
- (b) The subject of the 'Clause' and the 'Noun' are not coreferential.
- (c) The 'Clause' can stand alone as a sentence.
- (1) Prototype of the MMC: Clause Noun Copula.

The MMC is found in nDrapa, although it does not have the prototypical form described above. Four morphemes are attested in the 'Noun' slot of the

nDrapa MMC: (i) = ndei 'intention', (ii) -zi 'prospect', (iii) nkheil/=nkhei 'appearance', and (iv) $m \land lo3$ 'readiness'. (The numbers '1' and '3' indicate tones; see Section 3.) Among them, =ndei 'intention' is an enclitic, while nkheil/=nkhei 'appearance' is used both as an independent noun and an enclitic. -zi 'prospect' is a suffix, and $m \land lo3$ 'readiness' is consistently used as an independent noun. When the morpheme in the 'Noun' slot is not a noun, the nDrapa MMC deviates from the prototype; see (1).

The meaning of the nDrapa MMC is modal ('intend to', 'be supposed to', 'be expected to'), evidential ('It appears'), or aspectual ('be ready to').

Generally, the 'Clause' of the MMC cannot be used as a sentence by itself. In this respect, too, the nDrapa MMC deviates from the prototype; see (c) above. Further, the 'Clause Noun' part of the MMC cannot be used as the object of a verb.

The four morphemes listed above are rarely used outside the MMC. Moreover, their etymologies are difficult to ascertain, as nDrapa does not have a literary tradition and there is no written record of earlier stages of the language. Nonetheless, their tentative etymologies will be suggested in Section 5.

2. Initial illustration

Examples of the nDrapa MMC include (2) (enclitic =*ndei* 'intention') and (3) (noun *nkhei1* 'appearance'). The portion that corresponds to the 'Clause' in (1) is shown by an underline.

- (2) <u>somuni3 noro1 nchencha3 ji</u>=ndei1 re3. tomorrow 3SG shopping go=intention COP₄ Lit: 'He is an intention to go shopping tomorrow.' Fr: 'He intends to go shopping tomorrow.'
- (3) <u>norol kaotonl lo=ci2 fidi=ti3 nkheil re3.</u> 3SG high.school learn=wish think=IPFV appearance COP₄ Lit: 'He is an appearance to want to learn at a high school.' Fr: 'He seems to want to go to high school.'

3. Profile of the language

The nDrapa (or Zhaba) language is spoken in Daofu and Yajiang Counties, Ganzi Tibetan Autonomous Prefecture, Sichuan Province, China. According to Huang Bufan (1991) and Gong Qunhu (2007), it has approximately 8,000 speakers. Its genetic affiliation requires further validation, but the emerging consensus is that it belongs to the Qiangic branch of the Tibeto-Burman language family of the Sino-Tibetan language phylum (Sun Hongkai 1983, 2001, Matisoff 2003). The present chapter is concerned with the Mätro dialect, which is spoken in Mätro (Mazhong) Village of Daofu County by approximately 260 speakers. The following phonemes can be posited for the Mätro dialect: (i) consonants /ph [p^h], th [t^h], th [t^h], ch [c^h], kh [k^h]; p, t, t, c, k; b, d, d, j, g; tsh [ts^h], tch, [tc^h]; ts, tc; dz, dz; m, n, n, ŋ; m [mm], n [nn], n [nn], n [nn], n [nn]; fh [f^h], sh [s^h], ch [c^h]; f, s, c, x, h; v, z, z, y, fi; w, j; l, r [t]; l [l], r [t]/; (ii) vowels /i, i, u, u, e [I], Θ , o, ε , Λ , ϑ , a; ei/; (iii) word tones: 1 (high-level), 2 (high-falling), 3 (low-rising) and 4 (low-rising-falling). Enclitics and suffixes do not carry a specific tone. Their tone varies according to that of the preceding element. In view of this, they are presented without specification for tone. Enclitics are marked by a preceding equal sign, while suffixes are shown by a preceding hyphen.

nDrapa is an agglutinating language which employs both suffixes and prefixes. It is largely dependent-marking and slightly configurational.

Case is marked by postpositions. Case postpositions in nDrapa are always dependent upon the preceding word. Therefore, they are considered enclitics.

The case system is basically nominative-accusative (A/S vs. O). The nominative case has no overt marker, while the accusative case is marked by the enclitic =wu 'ACC'. Other case postpositions include =ji 'BEN', =la 'DAT', =ne 'DIST', =nA 'COM', =ntsha 'ASS', =kAtA 'INS', and =ma 'CMPR'. Moreover, there are a number of locative postpositions that provide a more specific description of location or the like: =ta 'ON', =zA 'UNDER', =kA 'IN', and =to 'PLACE' (Shirai 2010).

The basic constituent orders are verb-final: AOV and SV. Adjectives and numerals follow the noun they modify. However, demonstratives precede the noun. Adnominal clauses (or relative clauses) precede the noun they qualify. Moreover, so-called head-internal relative clauses are often found as well.

Verbs inflect for aspect (perfective vs. imperfective) and mood (plain vs. imperative). A verb may be followed by an auxiliary verb, in which case the auxiliary verb (and not the main verb) is inflected.

The plain-mood predicates show the opposition of Patterns A and B (Shirai 2007a, b). Pattern B (glossed as "B") is overtly marked by an aspect suffix. Pattern A lacks an aspect suffix. That is, Pattern A is shown by the absence of any overt marker. A similar distinction to Pattern A/B is found in Tibetan. Ebihara (this volume) on Amdo Tibetan uses the same terms (Patterns A and B) as those used in the present paper.¹ Pattern A indicates the viewpoint of the pivot, where the pivot is (i) the speaker of a direct declarative sentence, (ii) the hearer of an interrogative sentence, or (iii) the original speaker of a reported sentence. A pattern B suffix indicates that the sentence does not concern any viewpoint. The following is the main semantic difference between the two patterns. Unintentional predicates use Pattern B in principle, while intentional predicates use either Pattern A or B. Pattern A is typically used for sentences that express an event under the pivot's control (e.g., for a declarative sentence that implies the speaker's intentional action). In contrast, Pattern B is typically used if the event is out of the pivot's control (e.g., third person's action). These main points are summarized below.

- (a) Imperative mood
- (b) Plain mood
 - (b-1) Pattern A; Zero suffix; Viewpoint of the pivot.
 - (b-2) Pattern B; Aspect suffix; No viewpoint.

nDrapa has no written tradition. However, in the areas where nDrapa is spoken, Tibetan is the traditional lingua franca, and more recently, Chinese has become the dominant language. Under such circumstances, "cultured" nDrapa speakers are often familiar with Written Tibetan and Written Chinese. Nonetheless, the main consultant of my research has not received formal education. All data in this paper are compiled from the spoken language.

4. Types of sentences and clauses

4.1 Verb-predicate and noun-predicate sentences

Sentences in nDrapa can be classified into two types: verb-predicate sentences and noun-predicate sentences. Each of these types can be further classified as follows. (Details are given in Shirai (forthcoming).)

- (a) Verb-predicate sentences
 - (a-1) Auxiliary sentences
 - (a-2) Non-auxiliary sentences
- (b) Noun-predicate sentences
 - (b-1) Copula sentences
 - (b-2) Copula-less sentences

We shall examine each of these sentence types in turn.

(a) Verb-predicate sentences

Verb-predicate sentences can be classified into two groups: auxiliary sentences, e.g. (4), and non-auxiliary sentences, e.g. (5). Roughly speaking, their structures are as shown below. (Abbreviations are listed at the end of this paper.)

- (a) Verb-predicate sentences
- (a-1) Auxiliary sentences:

(DIR-) VS (NEG-) AUX (-B) (SFP) (a-2) No-auxiliary sentences: (DIR-) (NEG-) VS (-B) (SFP)

The constituents given in parentheses do not always occur. However, it is important to note that, in the plain mood, when the sentence does not concern the viewpoint of the pivot, Pattern B must be used.

Auxiliary sentences contain an auxiliary verb. For example, (4) contains

the auxiliary verb nA2 'experiential' (realized as -n- in (4)). Non-auxiliary sentences contain no auxiliary verb. See (5).

- (4) tshonbal no = tol tcotil to-htcul mo-n-a2. shopkeeper 2SG=PLACE letter NTL-send NEG-EXP-B.PFV 'The shopkeeper has never sent you a letter.'
- (5) jenA3 nore=rol je3 a-hpe-a3. yesterday 3PL=GEN house DWN-burn-B.PFV 'Their house burned [in fire] yesterday.'

(b) Noun-predicate sentences

These sentences can be classified into two groups: copula sentences, e.g. (6), and copula-less sentences, e.g. (7). The structure of each pattern is shown below.

(b) Noun-predicate sentences

- (b-1) Copula sentences: $NP_1 NP_2 COP(-B)$ (SFP) (b-2) Copula-less sentences: $NP_1 NP_2 SFP$
- (6) nol ndapi3 $tcj-\epsilon3$ mo3. 2SG nDrapa.people COP₂-B.IPFV CFM 'You are nDrapa, aren't you?'
- (7) ture = ne3 miwe = i3 sa3. REF=TOP old.woman=CLF ADM 'It is an old woman.' [FT]

There are four copula verbs: wa3 'COP₁', tce3/tcj3 'COP₂', tc3 'COP₃', and rc3 'COP₄'. Among them, wa3 'COP₁' is used only for Pattern A. tcc3/tcj3 'COP₂' is typically used in polar questions and answers to them and it can be used either for Pattern A (tcc3; without a suffix) or Pattern B (tcj-c3; accompanied by the imperfective Pattern B suffix). tc3 'COP₃' is used for generic propositions. rc3 'COP₄' is the unmarked copula, and it is most widely used. (Details are given in Shirai (forthcoming).)

If the predicate is an adjective, the sentence is either of the verb-predicate type (a), e.g. (8), or the noun-predicate type (b), e.g. (9). For example, (8) lacks an auxiliary verb, and the adjective is inflected (cf. (a-2) and (5)); the imperfective B suffix - ε is attached to the adjective stem *fid2j3* (*fid2zi3*) 'beautiful.' In contrast, (9) contains a copula verb (cf. (b-1) and (6)).

- (8) *ŋoro1 t¢həku3 fidəzj-ε3.* 3SG very beautiful-B.IPFV
 'She is very beautiful.'
- (9) *ŋoro1 fidəzizi3 re3.*3SG beautiful COP₄
 'She is beautiful.'

We have seen that sentences can be classified into two types. Similarly, clauses can be classified into two types: verb-predicate clauses and noun-predicate clauses. Sentences and clauses differ in terms of morphological restrictions on the predicate. For example, generally subordinate clauses cannot contain a Pattern B suffix.

4.2 Adnominal clauses

4.2.1 Formation

nDrapa has four types of adnominal clauses ('ACs').

(a) External-head AC: AC + noun.

(b) Internal-head AC: the head noun is inside the AC.

(c) Compounding AC: Verb-noun.

(d) Headless AC.

The predicate of an AC is combined with a nominalizer—typically, a verbal suffix. That is, it is non-finite. ((c) Compounding AC is exceptional: a noun functions as the nominalizer.) There is no relative pronoun. Nominalizer suffixes (NMLZs) include -mA, -mArA, -pi, -perA, and -hti. Roughly speaking, -pi and -perA are used for human head nouns, while -hti, -mA, and -mArA are for nonhuman head nouns. In nDrapa, ACs do not employ a resumptive pronoun. (In the examples of ACs, the AC is underlined.)

In the external-head type, an AC precedes the head noun, e.g.:

(10)	noro1	poji3	htsл-pi3	hgehge3	noro 1	<i>г</i> еЗ.
	that	Tibetan.letter	teach-NMLZ	teacher	3SG	COP ₄
	'That t	eacher who taug	ght Tibetan Lite	rature was	he.'	
(11)	tsheri	a-mo-	mara3	lei3	ţaçi3	
	PSN	DWN	-make-NMLZ	bun	PSN	
	ki-ttsi l	hce-a.	3.			
	INW-e	at PST-E	B.PFV			
	'Tashi	ate the meat bu	ns that Tseri ma	ıde.'		

Internal-head ACs are used the most frequently of the four types of ACs in nDrapa. Moreover, they are strongly preferred when the direct object is relativized on, e.g. (12). In (12), the dotted line indicates the head of the AC.

(12)	<u>nal</u>	ηoro = wu	lei3	tʌ-htsɨ-mʌrʌ2	tçjutshele3	re3.
	1SG	3SG=ACC	bun	NTL-feed-NMLZ	chive.bun	COP ₄
	'The	bun that I ha	ve gave	him was a chive bu	ı.'	

In the compounding type, the head noun directly follows the clause. An example is (13), in which the head noun pA3 'day' directly follows the clause *norone1 hteime3 me1* 'they do a wedding'. Moreover, in this case, the verb *me1* 'make' and head noun pA3 'day' form one phonological word, and the second morpheme loses its original tone. (If the verb of the clause

contains affixes, the head noun may retain its tone, e.g. (54).)

(13) <u>porone1 hteime3 me</u>=pA1 a-fidufidu3 hce-a4 3DU wedding make=day DWN-quarrel PST-RT re3. COP₄

'They quarreled on the day when they had their wedding.'

The compounding type is rarely found as a nominal constituent of a sentence. However, its structure is involved in the type of MMC discussed in 5.2.

In the headless type, the head noun is not expressed overtly. The verb of the AC is followed by a nominalizer suffix. Nominalizers can specifically indicate a category, such as thing (-mA), person (-pi), e.g. (14), and place (-hti).

(14) $\underline{lei3}$ $\underline{ki-ttsi-pi2}$ goro1 re3.bun INW-eat-NMLZ 3SG COP₄ 'The person who ate the meat buns was he.'

Like Japanese, nDrapa has both internal ACs and external ACs. (See Teramura (1969) and Tsunoda (this volume-a, 7.2) for a discussion of these two types of AC.) Roughly speaking, in internal ACs, the head noun corresponds to an argument or an adjunct of the AC. In contrast, in external ACs, the head noun is, so to speak, added from outside the underlying clause. It does not correspond to an argument or an adjunct of the AC.

4.2.2 Internal ACs

Examples of internal ACs include (10), (11), and (14) to (18).

The following positions on Keenan and Comrie's (1977) accessibility hierarchy can be relativized on: subject (e.g. (10)), direct object (e.g. (11)), indirect object (e.g. (15)), and oblique object, such as goal (e.g. (16)), location (e.g. (17)), instrument (e.g. (18)), and comitative (e.g. (19)). However, the possessor and the object of comparison cannot be relativized on.

(15)	nal	lei3 ta-	hts i- mʌrʌ l		рлһӈлЗ	noro1	<i>г</i> е3.
	1SG	bun NT	L-feed-NN	ALZ	child	3SG	COP ₄
	'The c	hild to wh	om I gave	meat buns	was he.'		
(16)	ņjε	л-ji-hti1	-	satsa3	seitha3	<i>геЗ.</i>	
	1PL	UP-go-N	MLZ	place	PLN	COP ₄	
	'The p	lace where	e we went	was Seita.'	1		
(17)	nal 🛛	hteime3	mo-hti3	satsa.	3 jala3pin	guã = kл	1 re3.
	1SG	wedding	make-NN	ILZ place	Yala.Ho	tel=IN	COP ₄
	'The p	lace where	e I had a w	edding wa	s Yala Hote	l.'	
(18)	<u>noro1</u>	ve3	ki-ttsi-m/	<u>игл1</u>	nkhazi3 i	koro1 re	·3.
	3SG	tsampa	INW-eat-	NMLZ	spoon 1	this Co	OP₄

'This is the spoon with which he ate tsampa (parched barley powder).'

(19)	njel	hdo1	seitha3	<u>л-јі-регл2</u>	со3	noro1	<i>г</i> еЗ.
	1 PL	together	PLN	UP-go-NMLZ	friend	3SG	COP ₄
	'The	friend with	h whom w	e went to Serta toget	her was	he.'	

4.2.3 External ACs

Examples of external AC include (20).

(20) fidazizi3 noro1 h1hke1 ko-mara2 3SG song sing-NMLZ voice beautiful *г*е3. пл-te3 **OUT-come** DECL Lit: 'The voice that he sings comes beautiful.' Fr: 'His singing voice sounds beautiful.'

5. Mermaid construction

5.1 Introductory notes

In the MMC of nDrapa, four morphemes are attested in the 'Noun' slot: (i) =ndei 'intention', (ii) -zi 'prospect', (iii) nkhei1/=nkhei 'appearance', and (iv) $m \land lo3$ 'readiness'. Among them, =ndei 'intention' is an enclitic (although it is used as an independent noun (*ndei3*) outside the MMC). nkhei1/=nkhei 'appearance' is used both as a word and an enclitic. -zi 'prospect' is a suffix. $m \land lo3$ 'readiness' is consistently used as an independent noun, the nDrapa MMC deviates from the MMC prototype; see (1). Outside the MMC, nkhei1/=nkhei 'appearance' is not attested, and the other three forms are rarely used.

The etymologies of these four morphemes are difficult to ascertain. Nonetheless, it is possible to suggest their etymologies on the basis of fossilized compound words in nDrapa and relevant forms in the Proto-Tibeto-Burman (PTB). In 5.2, we shall look at each of these four morphemes, paying attention to their etymologies as well. My discussion of the Proto-Tibeto-Burman will be based on Matisoff (2003).

Generally, the 'Clause' of the MMC cannot stand alone as a sentence. In this respect, too, the nDrapa MMC deviates from the MMC prototype. See the property (c) of the prototype of the MMC, shown in Section 1.

Some instances of the MMC are difficult to translate into English, but they are easily and nicely translated into Japanese. As shown in Tsunoda (this volume-b), the MMC abounds in Japanese. In view of this, many of the examples that follow are accompanied by a Japanese translation as well as an English translation.

5.2 Morphemes in the 'Noun' slot

We shall examine each of the four morphemes listed above.

5.2.1 =ndei 'intention'

=ndei 'intention' is rarely used as an independent noun outside the MMC. In this use, it has the low-rising tone (indicated by "3"), e.g. (21). The consultant uttered this sentence during my attempt to elicit a topicalized version of (2). The nominalizer suffix -mArA (cf. 4.2.1) is attached to the verb *ji*- 'go', and the entire clause somuni3 noro1 nchencha1 ji1 is topicalized (by means of the topic enclitic =ne). The noun ndei3 is focused. (21) implies that the plan of his going shopping is more definite than in (2). This is probably because ndei3 'plan' is focused.

(21) somupi3 noro1 nchencha1 ji-mArA = ne1 ndei3 re3.
 tomorrow 3SG shopping go-NMLZ=TOP intention COP4
 Lit: 'That he goes shopping tomorrow is an intention.'
 Fr: 'He definitely intends to go shopping tomorrow.'

In the MMC, this morpheme occurs as an enclitic. (Recall that enclitics do not carry any specific tone and that they are presented with no tonal specification (Section 3).) = ndei forms one phonological word with the word that immediately precedes it, and this phonological word has the tone of the word preceding = ndei. For example, in (2), ji1 has tone 1. Therefore, the combined phonological word ji = ndei1 has tone 1. As another example, in (22), mo3 has tone 3. Therefore, the phonological word mo = ndei3 has tone 3.

The MMC with *=ndei* has a modal meaning 'intend to'. It is not used frequently.

The predicate of the 'Clause' is a root or a stem. That is, it is not in a finite form. In effect, the MMC involves an AC of the compounding type (4.2.1). Since the predicate of the 'Clause' is not in a finite form, the 'Clause' cannot stand independently as a sentence.

The verb of the 'Clause' can be either intransitive, e.g. (2), or transitive, e.g. (22). (In the examples of the MMC, the 'Clause' is underlined.)

(22)	somuni3	no1	tçhei3	<u>me</u> =ndei3	<i>wa3</i> .
	tomorrow	2SG	what	make=intention	COP_1
	Lit: 'You a	re an ir	ntention	to make what tom	orrow?'
	Fr: 'What	do you	intend to	o do tomorrow?'	
	明日あなる	たは何	をする・	つもりですか。	

All four copulas are acceptable in the 'Copula' slot. re3 'COP₄' is the unmarked choice. Examples include (2) and (23). An example of tce3/tcj3 'COP₂' and te3 'COP₃' is (24). The copula wa3 'COP₁' can be used if the sentence implies the pivot's intention, e.g. (22) and (25). (The pivot may refer to the speaker of a direct declarative sentence; see Section 3.)

(23) <u>ami3 noro1</u>	ko3 a-te	=ndei1		<i>г</i> еЗ.
evening 3SG	here DW	N-come.down	=intention	COP ₄
Lit: 'He is an inte	ention to con	ne down here t	his evening.'	
Fr: 'He intends to	o come dow	n here in the ev	vening'.	
夕方、彼はここ	に (下りて	こ)来るつもり)です。	
(24) <u>somuni3</u> noro.	l nchencha	<u>3 ji</u> =ndei	1	
tomorrow 3SG	shopping	go=inter	ntion	
t⊊j-ɛ3/ʈɛ3.				
COP ₂ -B.IPFV/C	OP_4			
Lit: 'He is an inte	ention to go	shopping tomc	orrow.'	
Fr: 'He intends to	o go shoppir	ig tomorrow.'		
彼は明日、買い	「物に行くう	下定だ。		
(25) somuni3 nal	nchara3	ji=ndei1	<i>wa3</i> .	
tomorrow 1SG	have.fun	go=intention	COP_1	
Lit: 'I am an inte	ntion to go o	out to have fun	tomorrow.'	

As noted above, the predicate of the 'Clause' is not in a finite form, and the 'Clause' cannot be used as a sentence by itself. For this purpose, the predicate must inflect. For example, the 'Clause' of (2) (where the predicate is a root/stem) cannot be used as a sentence. Compare (2) with (26). In (26), the imperfective auxiliary verb, with the Pattern B suffix (*t-e3* 'IPFV-B.IPFV'), is added to the verb root/stem, and consequently (26) can stand on its own as a sentence.

(26) somuni3 norol nchencha3 $ji = t-\varepsilon 3$. tomorrow 3SG shopping go=IPFV-B.IPFV 'He will go shopping tomorrow.'

Fr: 'I intend to go out for fun tomorrow.' 明日私は遊びに行くつもりです。

The MMC with = ndei 'intention' is unacceptable if the event described is unintentional, as in (27).

(27) *<u>ami3 mokku3 te</u>=ndei1 re3. evening rain fall=intention COP₄ Intended meaning: 'It is expected to rain this evening.' (今晩、雨が降る予定だ。)

The etymology of =ndei (ndei3) 'intention' is difficult to ascertain. The same form is found in the second syllable of the noun *jandei3* 'hand, arm'. However, its meaning is quite far from =ndei (ndei3) 'intention'. Yasuhiko Nagano (p.c.) suggests that =ndei (ndei3) 'intention' may be related to the Written Tibetan word 'dod(-pa) 'desire, wish' (cf. Jäschke 1881: 280-281). There are two pieces of evidence that support this view. First, in many modern Tibetan dialects, the initial letter '" before an obstruent in Written Tibetan is realized as a nasal. (Recall that nDrapa has been influenced by

Tibetan for a long time (Section 3).) Second, in nDrapa no consonant is allowed in the syllable-final position. In view of this, I tentatively adopt Nagano's view that = ndei (*ndei3*) 'intention' is related to the Written Tibetan word 'dod' desire, wish'.

5.2.2 -zi 'prospect, strategy'

There is no example of the morpheme zi 'prospect, strategy' used independently as a noun, without modifying word(s). Consider (28), where -zi 'prospect' is the head noun that is modified by an AC (to be precise, a compounding type AC), and it functions as the argument of the verb po3'exist.' This example indicates that, in (28), the morpheme -zi 'prospect, strategy' has status as a noun (although it may not be an independent word).

(28) alc3 alc = nc3 <u>none = pero3 tete1</u> sometime=TOP 2DU=CNT each.other <u>to-hmo = nc1 mo-co-zi3 po3.</u> NTL-forget=then NEG-recognize-prospect exist₁ [FT] Lit: 'Someday there is a prospect that you two forget each other and cannot recognize each other.' Fr: 'Some day you two may forget each other and may not

recognize each other.'

When used in the MMC, the morpheme in question is a suffix (-*zt*), not a word, that is added to the root/stem of a verb. That is, the predicate of the 'Clause' is not in a finite form. Therefore, the 'Clause' cannot stand as a sentence on its own.

This suffix may be translated as 'prospect' or 'strategy'. It is combined with the final syllable of the preceding clause to form one phonological word.

The MMC containing -zi 'prospect, strategy' mainly has a modal meaning, such as 'be supposed to do', 'be scheduled to do', or 'be expected to do'. This MMC is used frequently, in contrast with the MMC containing = ndei 'intention'.

Examples of the MMC with -zi 'prospect, strategy' include (29) to (31).

(29) <u>ana3</u> $n_{j} \in t_{0}$ leme3 vo-zi3 *геЗ*. 1PL=place monk come-prospect COP₄ today Lit: 'A monk is a prospect to come to our place today.' Fr: 'A monk is scheduled to come to our home today.' 今日、私たちのところにお坊さんが来る予定だ。 <u>th#e = t</u>A1 (30) $t = r_0 I$ tetshi = $r_0 I$ mo-zi3 REF whole.life=GEN LOG.PL=place live.in-prospect *г*е3. COP₄ [FT] Lit: '[She] is a prospect to live in our house for the whole life.' Fr: [The millionaire said,] 'She is supposed to live in our house

[and work] all her life.'

そいつは、一生わたしたちの家で住み込みをする(働く) ことになっている」(と長者が言った。)

(31) (An example obtained through elicitation)

<u>ŋa1</u>	lotta	n=kə3	<u>a-lo3</u>		wu3	tsh_pi1	
1SG	scho	ol=IN	DWN-	read	finish	after	
<u>hgehg</u>	<u>е1</u>	mo-zi3		re3.			
teache	r	make-pro	ospect	COP	Ļ		
Lit: 'I	am a	prospect to	o becom	e a teac	her after f	inishing readi	ing
at	schoo	ol.'					

Fr: 'I e	xpect	to becor	ne a te	acher af	fter grad	uating 1	from s	chool.'
私は、	学校	で勉強	し終え	たあと	、先生に	こなる	予定な	ž.

In the examples given thus far, the copula used is $r\in 3$ 'COP₄'. The other three copulas, too, can be used; see (32).

(32) <u>anA3 nje=to1 leme3 vo-zi3</u> today 1PL=place monk come-prospect wa3/tcj-e3/te3/re3. COP₁/COP₂-B.IPFV/COP₃/COP₄ Lit: 'A monk is a prospect to come to our place today.' Fr: 'A monk is supposed to come to our home today.' 今日、私たちのところにお坊さんが来る予定だ。

In the examples given thus far, the MMC with -zi describes intentional events. Where unintentional events are concerned, this MMC is acceptable if it expresses common knowledge, e.g. (33).

(33)	zyi3	kΛ-¢jε=ta1,	tazi3	meto3
	hot.season	INW-come=TIME	immediately	flower
	<u>ŋo-fibo</u> -zɨ1	<i>г</i> е3.	-	
	OUT-bloom-	-prospect COP ₄		
	Lit: 'When t	he hot season comes	, flowers are a	prospect to bloom
	immedia	tely.'		
	Fr: 'When th	he hot season comes,	flowers are su	pposed to bloom
	immedia	tely.'		
	春になれば	、じきに花が咲く	のだ。	

As noted above, the predicate of the 'Clause' is not in a finite form, and the 'Clause' cannot be used as a sentence by itself. For this purpose, the predicate needs to inflect. For example, the 'Clause' in (32) cannot stand independently as a sentence. Its predicate is a root/stem. Comparing (32) with (34). In (34), the verb root/stem is followed by the imperfective auxiliary verb tA = tA, and (34) is used as a sentence.

(34) anA3 nje = to1 leme3 vo = tA3. today 1PL=place monk come=IPFV 'A monk will come to our home today.' As seen above, the MMC with -zi 'prospect, strategy' mainly has a modal meaning, such as 'be supposed to do', 'be scheduled to', or 'be expected to do'. The act described is generally intentional. Furthermore, the MMC with -zi may express a strategy, e.g. (35) to (37).

(35) $p_{W} \varepsilon = r_A 1$ <u>hketçha3</u> kecn3 a-fiți-zi3 2PL=GEN word how DWN-talk-strategy ra3. COP₄.Q Lit: 'Your language is a strategy how to say?' Fr: 'How do you say this in your language?' Lit: あなたがたの言葉はどのように言う方法ですか。 Fr: あなたがたの言葉でどのように言うのですか。 (36) (An example, cited from a folk tale) <u>рwel kecn3 л-ttchu-zi3</u> ra3. 2PL how UP-bring-strategy COP₄.Q [FT] Lit: 'You are a strategy how to bring [that box]?' Fr: 'How do you bring [the big box]?' Fr: あなたがたは、(その大きな箱を) どうやって 運ぶのですか。 (37) (In the same folk tale, as an answer to (37)) <u>nphei = ta1_ndole3</u> re3. ta-rere-zi3 ice=ON horseshit NTL-scatter-strategy COP₄ [FT] Lit: '[We] are a strategy to scatter horse droppings [on ice].' Fr: 'We will scatter horse droppings [on ice].' (ねずみが箱を運ぶのに)氷の上に馬糞を撒く (そして、その 上を滑らせる) のです。

Regarding the etymology of -zi 'prospect, strategy', there is another morpheme zi 'child', which is used in nominal compounds such as *mizi3* 'mother and child'. However, semantically the two morphemes are quite remote. Another possible etymology is PTB *(r-) $tsy \Rightarrow y$ 'count' (Matisoff 2003: 645). Although its form is remote from -zi, the initial consonant might have been vocalized and fricativized through grammaticaliztion. Moreover, its reflex in Written Tibetan, i.e. rtsis means 'counting, account, estimation' (Jäschke 1881: 439), and this meaning is close to that of -zi 'prospect, strategy' (Yasuhiko Nagano p.c.). (Recall that nDrapa has been influenced by Tibetan for a long time (Section 3).) At this stage of research it is difficult to decide whether the nDrapa -zi is derived from PTB *(r-) $tsy \Rightarrow y$ 'count' or is related to the nDrapa noun zi 'child'.

5.2.3 nkhei1/=nkhei 'appearance'

This morpheme is tentatively translated as 'appearance'. It is not used outside the MMC. Within the MMC, it tends to be:

(a) an enclitic (=nkhei), combined with the preceding word, if the

final phonological word of the preceding clause is monosyllabic, e.g. (41), (44), (45), and;

(b) an independent word (*nkhei1*), if the final word of the preceding clause is disyllabic or longer, e.g. (3), (38) to (40), (42), (43), (46), (50).

In other words, the enclitic form tends to be used if the predicate of the 'Clause' is a root/stem, while the independent word form is preferred if the predicate is inflected.

The MMC with nkheil = nkhei has an evidential meaning of superficial observation: 'It appears/ looks ...'. This MMC is used frequently.

The 'Clause' may be any one of the following.

- (i) A verb-predicate clause, e.g. (3), (38), (39), (40), (46), (50).
- (ii) A noun-predicate clause, e.g. (41), (42).
- (iii) An adjective-predicate clause of the verb-predicate type, e.g. (44).
- (iv) An adjective-predicate clause of the noun-predicate type, e.g. (43), (45).

The following are examples that involve a verb-predicate clause. The verb of the clause may be either an intransitive verb, e.g. (38) ('die'), (39) ('fall') and (50) ('be ill') or a transitive verb, e.g. (40) ('eat').

(38)	<u>ŋa1</u>	açhi3	<u>сл-а2</u>	nkhei1	<i>геЗ.</i>	
	1SG	tonight	die-RT	appearance	COP ₄ [FT]	
	Lit: 'I	am an appe	earance to	die tonight.'		
	Fr: 'It	appears that	t I will di	e tonight.'		
	私は今	テ夜、死ん	でしまう	ようだ。		
(39)	<u>ami3</u>	mokku3	<u>a-te-a3</u>		nkhei1	<i>геЗ.</i>
	evenin	ig rain	DWN-fa	all-RT	appearance	COP ₄
	Lit: 'T	he rain is a	n appeara	nce to fall in t	the evening.'	
	Fr: 'It	appears that	t it will ra	in this evenir	lg.'	

今晩、雨が降りそうだ。 (40) <u>poro3 lei3 ki-ttsi-a1</u> nkhei1 re3/tçj-ɛ3. 3SG bun INW-eat-RT appearance COP₄/COP₂-B.IPFV Lit: 'He/she is an appearance to eat buns. Fr: 'He appears to have eaten the meat buns.' 彼が包子を食べたみたいだ。

Examples involving a noun-predicate clause include (41) and (42).

- (41) <u>koro3 na=ra mi=nkhei3</u> re3. this 1SG=GEN mother=appearance COP₄ 'It appears that this woman is my mother.' この人が私の母親みたいだ。
- (42) <u>noro1 hgehge3</u> nkhei1 re3. 3SG teacher appearance COP₄

'It appears that he is a teacher.' 彼は先生みたいだ。

((41) means the following: 'I do not know who my mother is. But my observation indicates that this woman is my mother'. Similarly, (42) means the following: 'I do not know what his job is. But my observation indicates that he is a teacher'.)

Examples involving an adjective-predicate clause are (43) to (45).

- (43) <u>koro3 chemo3 koto3 tçi=ți2</u> nkhei1 re3. this clothes price big=COP₃ appearance COP₄ Lit: 'These clothes are an appearance [that their] price is big.' Fr: 'These clothes look expensive.' この服は値段が高そうだ。
- (44) <u>koro3 chemo3 koto3 tçi</u>=nkhei1 rɛ3. this clothes price big=appearance COP₄ 'These clothes look expensive.' この服は値段が高そうだ。
- (45) <u>norol meme-mA3 mo-ndza3 re3</u>=nkhei3 re3. 3SG think-NMLZ NEG-good COP₄=appearance COP₄ [FT] Lit: 'What he thinks [about] is an appearance [that it] is not good.' Fr: 'What he thinks does not seem good.' 彼が考えているのは、良からぬ事のようだ。

The copulas that can occur in the 'Copula' slot are tcj3 'COP₂' and re3 'COP₄'; see (40). re3 'COP₄' is the most commonly occuring one. The sentence-final particle pa3 'INF' is also attested in place of a copula, e.g. (46).

(46) <u>noro3 lei3 ki-ttsi-a1</u> nkhei1 pa3. 3SG bun INW-eat-RT appearance INF Lit: 'I guess he/she is an appearance to eat the buns.' Fr: 'He appears to have eaten the buns.' 彼が包子を食べたみたいだ。

We shall now examine whether the 'Clause' slot of the MMC with nkheil = nkhei 'appearance' can be used by itself as a sentence. First, the verbal inflectional morphology is summarized in Section 3. See (a) and (b), in particular.

The imperative (i.e. (a)) cannot occur in the 'Clause' slot (of any MMC in nDrapa), and consequently, it is irrelevant to this discussion.

Pattern A (i.e. (b-1)) does not occur in the 'Clause' slot, and it, too, is irrelevant here.

The meaning of Pattern A is largely incompatible with the meaning of the MMC with nkheil = nkhei 'appearance': superficial observation. Events that are superficially observed by the speaker are irrelevant to the speaker's intention. As mentioned in Section 3, unintentional predicates have Pattern

B in principle. For example, if the speaker has unintentionally induced or forgotten the event, the verb takes the Pattern B form, e.g. (47).

(47) *wotsi3 to-fidzu-a1*. hat NEUT-leave.behind-B.PFV '(I accidentally) left the hat behind.'

We now turn to Pattern B (i.e. (b-2)), for which the situation is somewhat complex, as shown below. It is important to bear in mind that Pattern B, rather than Pattern A, must be used when the sentence does not concern the viewpoint of the pivot. An example is (48) (Pattern B suffix: $-\varepsilon$ 'B.IPFV'). I note in passing that, if the speaker wants to mention such an unintentional event from his viewpoint, a sentence-final particle must be used to clarify his viewpoint. For example, the inferential particle pa3 is used in (49).

(48) <i>goro1</i>	tçhi2	<i>п</i> , <i>i=t-ε3</i> .	
3SG	something	be.ill=IPFV-B.II	PFV
'He is	ill.'		
(49) <i>ŋoro1</i>	tçhi2	ni=ți3	<i>pa3</i> .
3SG	something	be.ill=IPFV	ÎNF
'I gues	s he is ill.'		

[1] General rule: absence of Pattern B in the 'Clause'

As a general rule (with the exceptions noted in [2] and [3]), Pattern B cannot occur in the 'Clause' of any MMC in nDrapa—even when Pattern B would be expected (i.e. even when the sentence does not concern the viewpoint of the pivot). Consequently, the 'Clause' of the MMC with *nkheil*/=*nkhei* (or of any MMC, for that matter) cannot stand as an independent sentence. For example, consider (50), an instance of the MMC with *nkheil*/=*nkhei* 'appearance', in which the 'Clause' has no Pattern B suffix. Its 'Clause' cannot stand alone as a sentence; see (51). This is because the predicate of (51) does not have a Pattern B suffix, despite the fact that Pattern B would be expected.

(50) <u>noro1 tçhi</u>2 nkhei1 *г*е3. something be.ill=IPFV 3SG appearance COP₄ Lit: 'He is an appearance to be somewhat ill.' Fr: 'He looks somewhat ill.' 彼は何かを患っているみたいだ。 (51) * *noro1* tchi2 $n_i = t_i 3$. 3SG something be.ill=IPFV Intended meaning: 'He is ill.'

As noted above, as a general rule, Pattern B cannot occur in the 'Clause' of any MMC in nDrapa. At least in the case of the MMC with nkheil = nkhei 'appearance', there are two exceptions to this.

[2] Exception 1: Perfective: remote time and perfective Pattern B The 'Clause' in the MMC with *nkhei1* (word) 'appearance' may involve the remote time suffix -a 'RT', e.g. (38) to (40). (=nkhei (enclitic) 'appearance' cannot occur with the suffix.) This suffix has the same form as that of the perfective Pattern B suffix -a 'B.PFV'. Therefore, when the 'Clause' occurs by itself, the suffix -a 'RT' can function as the perfective Pattern B suffix -a 'B.PFV', and the 'Clause' can now be used as a sentence by itself—when Pattern B would be expected. For example, if the 'Clause' of (40) is used by itself, we obtain (52).

(52) *goro3 lei3 ki-ttsi-a1.* 3SG bun INW-eat-B.PFV 'He has eaten meat buns.'

The suffix -a 'RT', which functions as the remote time suffix in (40), can function as the perfective Pattern B suffix in (52). (52) does not concern the viewpoint of the pivot, and Pattern B would be expected. Indeed, it does have a Pattern B suffix, and (52) is acceptable as an independent sentence.

As can be seen, the remote time suffix -a 'RT' and perfective Pattern B suffix -a 'B.PFV' exhibit a complementary distribution. Namely, -a 'B.PFV' occurs sentence-finally, but -a 'RT' does not. Therefore, it is possible to say that -a1 '-B.PFV' is at the same time the perfective Pattern B suffix -a 'B.PFV.' It is according to this view that the 'Clause' of (40) can be used by itself as a sentence, namely (52).

[3] Exception 2: *re3* 'COP₄'

The copula $r\varepsilon 3$ 'COP₄' can be used in both Patterns A and B. If the 'Clause' of (45), for example, is used by itself, we obtain (53).

(53) *ŋoro1 mɛm̥ε-mʌ3 mθ-ndʒa3 rɛ3.* 3SG think-NMLZ NEG-good COP₄
 'What he thinks is not good.'

(53) does not concern the viewpoint of the pivot, and Pattern B would be expected. Indeed, it does have Pattern B; the copula $r\varepsilon 3$ 'COP₄' can be used for Pattern B, and (53) is acceptable as an independent sentence.

To sum up, as a general rule, Pattern B cannot occur in the 'Clause' of the MMC with *nkhei1/ = nkhei* 'appearance'—even when Pattern B would be expected (i.e. even when the sentence does not concern the viewpoint of the pivot). Consequently, the 'Clause' cannot stand as an independent sentence. However, there are two exceptions, in which the form that occurs in the predicate of the 'Clause' can be used in Pattern B, and consequently the 'Clause' can be used as a sentence by itself.

The etymology of *nkhei1*/ = *nkhei* 'appearance' is difficult to ascertain. This morpheme is not used as an independent noun outside the MMC. Nonetheless, the nDrapa noun *khe1* 'shape, appearance' is similar to *nkhei1*/ = *nkhei* 'appearance' in both form and meaning. Furthermore, there is an adjective that has the same form: *nkhei1* 'same'. This adjective may be

related to *nkhei1*/ = *nkhei* 'appearance'.

A possible cognate morpheme of nkheil/ = nkhei 'appearance' is found in Written Tibetan: (')khod 'surface, superficies' (Jäschke 1881: 56). As I mentioned in 5.2.1, the initial letter '" before an obstruent in Written Tibetan is realized as a nasal in many modern Tibetan dialects, and in nDrapa no consonant is allowed in the syllable-final position. It is possible that nDrapa nkheil/=nkhei is related to (')khod in Written Tibetan, although it is difficult to ascertain whether it is derived from the Written Tibetan (')khod or from a loanword that was borrowed from Tibetan.

There is another PTB root that may be relevant in this regard: *ka(-y)'like, similar; thus, so' (Matisoff 2003: 488). I tentatively regard *khel*, 'shape, appearance' as the nDrapa descendent of PTB *ka-y.

At this stage of research, it is difficult to decide whether the nDrapa nkheil = nkhei 'appearance' is derived from a morpheme (such as the Written Tibetan (')khod) that means 'surface' or from the PTB *ka(-y) 'like, similar; thus, so'.

5.2.4 malo3 'readiness'

There is no example of the morpheme $m \land lo3$ 'readiness' used as an independent noun by itself. However, $m \land lo3$ can be used as an independent noun when it is modified by some other words. For example, see (54). zama3 ki-ttsi-a1 'meal INW-eat-RT' is an AC of the compounding type (cf. 4.2.1-(c)), and it modifies $m \land lo3$ 'readiness'. The entire zama3 ki-ttsi-a1 $m \land lo3$ functions as the direct object of the transitive verb a-mo3 'make'. $m \land lo3$ has its own tone, and this indicates that it is neither an enclitic nor a suffix, that is, it is an independent noun (cf. Section 3).

(54)	zama3	<u>ki-ttsi-al</u>	тлю3	а-төЗ
	meal	INW-eat-RT	readiness	DWN-make
	hce-a3	<i>т</i> е3.		
	PST-RT	DECL		
	Lit: '[So	meone] made the	readiness o	f a meal to eat.'
	Fr: '[Son	meone] made all r	necessary pr	eparations for a meal.'
	(誰かが) 食事を食べる	ばかりの用	意をした。

In the MMC, too, mAlo3 'readiness' occurs as an independent word. This MMC has an aspectual meaning: 'be ready to'. This MMC is rather uncommon; only a few examples have been found in my field research.

The 'Clause' of this MMC has to be a verb-predicate clause. It cannot be an adjective-predicate or noun-predicate clause. The verb of the 'Clause' may be either intransitive, e.g. (56), or transitive, e.g. (55) and (57).

(55) *norol vo-ta3, <u>zama3 ki-ttsi-a1</u> mʌlo3 tɛ3.* 3SG come-when meal INW-eat-RT readiness COP₃[FT]
 Lit: 'When he came back, he was the readiness to eat a meal.'
 Fr: 'When he came back, meal preparations have been finished.'
 彼が帰ってくると、食事を食べるばかりになっていた。

- (56) <u>norol nje=to ki-mi-al</u> malo3 te3.
 3SG 1PL=place INW-sleep-RT readiness COP₃ Lit: 'He is readiness to sleep in our house.' Fr: 'He is ready to sleep in our house.' 彼がわたしたちの家で寝るばかりになっている。
- (57) <u>nguttchi-re2 anx3 khexui1 ntsho-a4</u> mxlo3 te3. leader-PL today meeting hold-RT readiness COP₃ Lit: 'The leaders are readiness to hold a meeting today.' Fr: 'The leaders are ready to hold a meeting today.' 指導者たちが今日会議を開くばかりである。

The verb of the 'Clause' is always followed by the remote time suffix *-a*, which concerns either remote past or remote future. (This is intriguing, for this MMC means 'be ready to'.)

We shall now examine whether the 'Clause' of this MMC can be used by itself as a sentence. Given that the verb of the 'Clause' involves the remote time suffix -a, and also that the remote time suffix is identical to the Pattern B perfective suffix, it is possible to say that the 'Clause' can be used by itself as a sentence. (Recall that this is exactly the case of the MMC with *nkheil*/ = *nkhei nkheil*/ = *nkhei* 'appearance'.) For example, compare (58) (MMC) with (59). Since the remote past suffix is considered to be the Pattern B perfective suffix at the same time, the 'Clause' in (58) can stand alone as a sentence, as in (59).

(58)	noro1	zama3	<u>ki-ttsi-al</u>	тлю3	ţE3.
. ,	3SG	meal	INW-eat-RT	readiness	COP ₃
	'He wa	as/is ready	to have a meal.'		
(59)	ŋoro1	zama3	ki-ttsi-a1.		

3SG meal INW-eat-B.PFV 'He had a meal.'

Generally, the 'Copula' employed is te3 'COP₃', e.g. (55) to (58). However, wa3 'COP₁' is used if the sentence describes an intentional action by the pivot. Comparison of (57) (te3 'COP₃') with (60) (wa3 'COP₁'). In (60), the preparation of the meeting has been done by the speaker(s).

(60) <u>nguttchi-re2 anA3 khexuil ntsho-a4</u> mAlo3 wa3.
 leader-PL today meeting hold-RT readiness COP1
 Fr: 'The leaders are ready to hold a meeting today. I/We have prepared for it.'
 (私[たち]は、) 指導者たちが今日会議を開くばかりに (会議場などの準備を) してある。

A parallel contrast is found between (56) (te3 'COP₃') and (61) (wa3 'COP₁'). Example (56) has no implication regarding who did the preparation, while (61) implies that "we" did.

(61) <u>norol nje=to ki-mi-al</u> mʌlo3 wa3. 3SG 1PL=place INW-sleep-RT readiness COP₁ Fr: 'He is ready to sleep in our house. We have prepared for it.' (私[たち]は、)彼がわたしたちの家で寝るばかりにしてある。

The MMC with mAlo3 'readiness' is unacceptable if the sentence expresses the third person's overt intention; see (62).

 (62) * goro1 tchu=ji2 mʌlo3 tɛ3.
 3SG harvest.crops=go readiness COP₃
 Intended meaning: 'He is ready to go for harvesting the crops.' (彼は麦刈りに行くばかりだ。)

The etymology of mAlo3 'readiness' is difficult to ascertain. It is probably a compound of mA and lo. The morpheme mA has the same form as the nominalizer suffix -mA (mentioned in 4.2.1). This suffix is probably derived from the PTB *ma 'what' (Matisoff 2003: 488). Its reflexes are found in modern languages, e.g. me35 'what' in Jiulong Prinmi (a Qiangic language) (Huang Bufan 1992: #954). (I indicate the lexicon number in Huang Bufan 1992 with a sharp mark.) The etymology of morpheme lo is more difficult to propose. It might have been derived from the PTB *luk'enough' (Matisoff 2003: 357). This root has reflexes in modern languages, e.g. lu 'full' in Shixing (a Qiangic language) (Huang Bufan 1992: #984).

On the basis of the above, I tentatively suggest that the etymology of $m_{\Lambda}lo3$ 'readiness' is possibly a compound noun that consists of *ma 'what' and *luk 'enough', although this issue awaits further research.

5.2.5 Summary of the 'Noun'

Table 1 presents a summary of the discussion of the four morphemes that can occur in the 'Noun' slot. The meaning of the MMC is modal, evidential, or aspectual.

Table 1. Morphemes in	the 'Noun' slot		
	Possible	Meaning/function	
	original meaning	in MMC	
<i>=ndei</i> (enclitic) 'intention'	'desire, wish'	modal ('intend to do')	
-zi (suffix)	'count' or 'child'	modal ('be supposed to	
'prospect, strategy'	count of child	do', 'be expected to do')	
<i>nkhei1</i> (word) / = <i>nkhei</i> (enclitic) _'appearance'	'surface' or 'like, similar'	evidential ('It appears')	
<i>mʌlo3</i> (word) 'readiness'	'thing-enough' (?)	aspectual ('be ready to')	

5.3 Negation

It is interesting look at negation in the MMC, for the MMC contains two words that can possibly be negated: (i) the predicate of the 'Clause' and (ii) the 'Copula'.

In nDrapa, sentence negation generally involves the negative prefix *mo*-(for the perfective) or *ma*-(for the imperfective).

Verb-predicate sentences are negated by the addition of the negative prefix to the main verb or the auxiliary verb, e.g. (4). Regarding noun-predicate sentences, copula-less sentences (e.g. (7)) cannot be negated. However, copula sentences are negated by the addition of *ma*- to the copula. For example, compare (63) and (64).

(63)	taçi3	ndapi3	<i>геЗ.</i>
	PSN	nDrapa.person	COP ₄
	'Tashi is	a nDrapa person.	•
(64)	taçi3	ndapi3	ma-re3.
	PSN	nDrapa.person	NEG-COP ₄
	'Tashi is	not a nDrapa per	son.'

Negation of the MMC employs the same method: addition of the negative prefix *ma*-. Now, as noted above, the MMC contains two words that can possibly negated: (i) the predicate of the 'Clause' and (ii) the copula.

The negative prefix is generally added to the 'Copula'—irrespective of which morphemes fill the 'Noun' and 'Copula' slots. Selected examples follow. Compare (i) (2) and (65), (ii) (29) and (66), (iii) (40) and (67), and (iv) (61) and (68).

- (65) <u>somupi3 norol nchencha3 ji</u>=ndei1 ma-re3. tomorrow 3SG shopping go=intention NEG-COP₄ 'He does not intend to go shopping today.' 明日彼は買い物に行かないつもりです。
- (66) <u>ans3 nje=to1 leme3 vo-zi3</u> ma-re3. today 1PL=place monk come-prospect NEG-COP4 'The monk is not supposed to come to our home today.' 今日、私たちのところにお坊さんは来ない予定だ。
- (67) <u>noro3 lei3 ki-ttsi-a1</u> nkhei1 ma-rɛ3. 3SG bun INW-eat-RT appearance NEG-COP₄ 'He does not appear to have eaten the meat buns.' 彼が包子を食べたのではないようだ。
- (68) <u>morol $nj\varepsilon = to$ ki-mi-al</u> malo3 ma-ja3. 3SG 1PL=place INW-sleep-RT readiness NEG-COP₁ 'It's not ready for him to sleep in our house. We haven't prepared for that.'

The predicate of the 'Clause' can be negated, e.g. (45) (*mo-ndza3* 'NEG-good'), although this is less common than the negation of the 'Copula'.

It is not known if both the 'Copula' and the predicate of the 'Clause' can be negated in one sentence.

5.4 Comparison of the MMC with other constructions

5.4.1 Introductory notes

In this section, I shall compare the morphosyntax of the MMC with that of three other constructions. Specifically, I compare the following.

- (a) Verb-predicate sentences, as the representative of independent sentences (cf. 4.1)
- (b) MMC with = ndei (enclitic) 'intention' (cf. 5.2.1)

(c) MMC with -zi (suffix) 'prospect, strategy' (cf. 5.2.2)

(d) MMC with *nkhei1* (word) 'appearance' (cf. 5.2.3)

- (e) MMC with = nkhei (enclitic) 'appearance' (cf. 5.2.3)
- (f) MMC with *mAlo3* (word) 'readiness' (cf. 5.2.4)
- (g) Head-internal adnominal clauses ('Head-internal ACs') (cf. 4.2.1)
- (h) Head-external adnominal clauses ('Head-external ACs') (cf. 4.2.1)

This comparison will concern the structure of the predicate (5.4.2), topicalization (5.4.3), and the 'Clause + Noun' as the predicate of a verb (5.4.4). The result of this comparison is shown in Table 2. The comparison in 5.4.2 in the main concerns morphology, while those in 5.4.3 and 5.4.4 deal with syntax.

Superficially, the 'Clause + Noun' structure of the MMC may look similar to an AC plus a noun, and it is particularly important to examine if the morphosyntax of the 'Clause' of the MMC really behaves like ACs.

5.4.2 Predicate

We shall look at the structure of the predicate.

(a) Verb-predicate sentences

The verb is inflected. It can occur in Pattern B. It can be followed by a sentence-final particle ('SFP').

(b) MMC with *= ndei* 'intention'

The predicate is the root/stem of a verb. It cannot occur in Pattern B. It cannot be followed by an SFP.

(c) MMC with *-zi* 'prospect, strategy'

The predicate is the root/stem of a verb. It cannot occur in Pattern B. It cannot be followed by an SFP.

(d) MMC with *nkhei1* (word) 'appearance'

The predicate is inflected. It can occur in Pattern B. It cannot be followed by an SFP.

(e) MMC with *=nkhei* (enclitic) 'appearance'

The predicate is the root/stem of a verb. It cannot occur in Pattern B in

general (see 5.2.3). It cannot be followed by an SFP.

(f) MMC with *mAlo3* 'readiness'

The predicate is a verb and it always takes the remote time suffix *-a*. This suffix can function as a Pattern B suffix. The verb cannot be followed by an SFP.

(g) Head-internal ACs

(h) Head-external ACs

The predicate is combined with a nominalizer suffix. It cannot occur in B Pattern. It cannot be followed by an SFP.

5.4.3 Topicalization

A constituent of a sentence can be topicalized by adding the topic enclitic =ne 'TOP' to it and moving it to the sentence-initial position. This test is designed to examine the syntactic structure of the 'Clause'.

(a) Verb-predicate sentences

Topicalization is possible. Compare (4) and (69).

(69) tshonba = ne1 no = to1 tcəti1 to-htcu1 shopkeeper=TOP 2SG=PLACE letter NTL-send mo-n-a2. NEG-EXP-B.PFV 'As for the shopkeeper, he has never sent you a letter.'

Topicalization is applicable to any type of MMC. Examples follow. (b) MMC with *=ndei* 'intention' Compare (2) with:

(70) goro=nel somuni3 nchencha3 ji=ndei1 re3. 3SG=TOP tomorrow shopping go=intention COP₄ Lit: 'As for him, he intends to go shopping tomorrow.' 彼は、明日買い物に行くつもりです。

In (70), the subject of the 'Clause', *noro* '3SG', is topicalized. (c) MMC with *-zi* 'prospect, strategy'

Compare (29) with the following sentences: (71) (the subject: $1 \in m \in 3$ 'monk' is topicalized), (72) (the goal noun $nj \in = to1$ '1PL=place' is topicalized), and (73) (the time noun anA3 'today' is topicalized).

- (71) *leme = ne3 ans3 nje = to1 vo-zi3 re3.* monk=TOP today 1PL=place come-prospect COP₄ Lit: 'As for the monk, he is supposed to come to our home today.' お坊さんは、今日、私たちのところに来る予定だ。
- (72) njɛ=to=ne1 anʌ3 lɛmɛ3 vo-zi3 rɛ3.
 1PL=place=TOP today monk come-prospect COP₄
 'To our home, a monk is supposed to come today.'
 私たちのところは、今日、お坊さんが来る予定だ。

(73) anA=ne3 njE=tol leme vo-zi3 re3. today=TOP lPL=place monk come-prospect COP₄ 'Today, a monk is supposed to come to our home.' 今日は、私たちのところにお坊さんが来る予定だ。

As additional examples, compare (35) and (74):

(74) njɛ=rʌ1 hkɛtcha=ne1 konkhei3
1PL=GEN word=TOP this.appearance
a-fijifiji-zi3 rɛ3.
DWN-talk-prospect COP₄
'In our language, [we] say like this.'
わたしたちの言葉は、このように言うのです。

(d) MMC with *nkhei1* (word) 'appearance' Compare (40) and (75):

(75) goro = nel lei3 ki-ttsi-al nkheil re3.
 3SG=TOP bun INW-eat-RT appearance COP₄
 'As for him, He appears to have eaten the meat buns.'
 彼は、包子を食べたみたいだ。

(e) MMC with *=nkhei* (enclitic) 'appearance' Compare (44) and (76):

(76) koro3 chemo=ne3 koto3 tçi=nkhei1 re3. this clothes=TOP price big=appearance COP₄ 'As for these clothes, they look expensive.' この服は値段が高そうだ。

(f) MMC with *mAlo3* 'readiness' Compare (56) with (77):

(77) goro = ne1 njɛ = to1 ki-mi-a1 mʌlo3 tɛ3.
 3SG=TOP 1PL=place INW-sleep-RT readiness COP₃
 'He is ready to sleep in our house.'
 彼は、わたしたちの家で寝るばかりになっている。

(g) Head-internal ACs' Topicalization is possible. Compare (78) and (79).

(78)	<i>tsheri</i>	lei3	а-тө-тлглЗ	taçi3
	PSN	bun	DWN-make-NMLZ	PSN
	ki-ttsi1	hce-a	ı <i>3.</i>	
	INW-eat	PST-	B.PFV	
	'Tashi ate the	e meat	t buns that Tseri made.'	

(79) tsheri=ne1 lei3 a-mo-mArA3 taçi3
PSN=TOP bun DWN-make-NMLZ PSN ki-ttsi1 hce-a3.
INW-eat PST-B.PFV
Tentative translation: 'As for Tseri, Tashi ate the meat buns that she made.'

(h) Head-external ACs' Topicalization is not possible. Compare (11) and (80).

(80) * $tsheri = ne1$	а-тө-тлглЗ	lei3	taçi3
PSN=TOP	DWN-make-NMLZ	bun	PSN
ki-ttsi l	hce-a3.		
INW-eat	PST-B.PFV		
Intended mean	ing: '(As (79).)'		

It is interesting to note that in Japanese a noun phrase within an AC cannot be topicalized (Tsunoda, this volume-b, Section 6.3.1.1), in contrast with nDrapa ACs.

5.4.4 'Clause + Noun' as the object of a verb

We shall examine whether 'Noun + Clause' can be the object of a verb. This test is designed to examine the noun-hood of the 'Noun' of the MMC. It is convenient to start this test with ACs.

An NP modified by an AC can be used as the object of verbs such as si2 'know,' as in (81) and (82), to2 'see,' and re2 'achieve'. (In (81), the internal head is indicated by a broken underline.)

(g) Head-internal ACs

(81) <u>konkhei3</u> <u>hketçhal a-fiţifiţi-mʌrʌ3</u> this.appearance word DWN-talk-NMLZ no1 si=me2. 2SG know=Q 'Do you know the words that say like this?'

(h) Head-external ACs

(82) <u>nonkhei3</u> <u>a-fifififi-mara3</u> hketcha1 that.appearance DWN-talk-NMLZ word no1 $si = m\epsilon2$. 2SG know=Q 'Do you know the words that say like that?'

In the MMC, the 'Clause Noun' part cannot be used as the object of these verbs. This applies even when the 'Noun' is an independent word, not an enclitic or suffix; see (85) and (86). Selected examples follow.

(b) MMC with *= ndei* (enclitic) 'intention' Compare (2) with:

(83) * na noro somuni3 nchencha3 ji=ndei1 si2. 1SG 3SG tomorrow shopping go=intention know Intended meaning: 'I know that he intends to go shopping tomorrow.'

(c) MMC with *-zi* (suffix) 'prospect, strategy' Compare (29) with:

(84) *ans3 nje=to1 leme3 vo-zi3 re-a2 re3. today 1PL=place monk come-prospect achieve-RT COP4 Intended meaning: 'We obtained the prospect that a monk will come to our home today.' *お坊さんにうちに来てもらう予定ができた。

(d) MMC with *nkhei1* (word) 'appearance' Compare (41) with:

- (85) * na noro3 lei3 ki-ttsi-a1 nkhei1 si2. 1SG 3SG bun INW-eat-RT appearance know Intended meaning: 'I know that he appears to have eaten the meat buns.'
- (86) * na noro3 lei3 ki-ttsi-a1 nkhei1 to2.
 1SG 3SG bun INW-eat-RT appearance see.1 Intended meaning: 'I saw that he appears to have eaten the meat buns.'

(f) MMC with *mslo3* (word) 'readiness' Compare (56) with:

(87) * *na noro3* $n_{j\varepsilon} = t_{0}$: k_{i} -*mi-a1* $m_{\Lambda}l_{03}$ si2. 1SG 3SG 1PL=place INW-sleep-RT readiness know Intended meaning: 'I know that he is ready to sleep in our house.'

(a) Verb-predicate sentences

They are irrelevant to this test, for they do not contain 'Clause + Noun'.

We have seen that 'head-internal AC + Noun' can be the object of certain verbs, while 'Clause + Noun' of the MMC cannot. This applies even when the 'Noun' is an independent word, not an enclitic or suffix. The result shows that, at least in this respect, the 'Noun' of ths MMC does not have the status of a regular noun.

5.4.5 Discussion

The result of the comparison conducted above is shown in Table 2. In terms

of the structure of the predicate, in the main the MMC resembles neither verb-predicate sentences not ACs. It differs from verb-predicate sentences and behaves like ACs only in one respsct: the predicate cannot involve a sentence-final particle. With respect to topicalization and the use of 'Clause Noun' as the object, i.e. concerning syntax, it is difficult to say whether the MMC resembles verb-predicate sentences or ACs.

	predicate		
	verb form	Pattern E	B SFP
(a) verb-predicate sentence	inflected	+	+
(b) MMC: <i>= ndei</i> 'intention'	root/stem	-	-
(c) MMC: -zi 'prospect'	root/stem	-	-
(d) MMC: <i>nkhei1</i> 'appearance'	inflected	+	
(e) MMC: =nkhei 'appearance'	root/stem	-	-
(f) MMC: malo3 'readiness'	remote time	+	~
.,	suffix		
(g) Head-internal AC	nominalizer	-	-
	suffix		
(h) Head-external AC	nominalizer	-	-
	suffix		
	topicalization	n 'Cla	use Noun' as object
(a) verb-predicate sentence	+		n.a.
(b) MMC: <i>= ndei</i> 'intention'	+		-
(c) MMC: -zi 'prospect'	+		-
(d) MMC: <i>nkhei1</i> 'appearance'	+		-
(e) MMC: <i>=nkhei</i> 'appearance'	+		-
(f) MMC: malo3 'readiness'	+		-
(g) Head-internal AC	+		+
(h) Head-external AC	-		+

Table 2. Comparison of the MMC with other constructions

To sum up, the MMC does not closely resemble either verb-predicate sentences or ACs. As noted in 5.4.1, superficially, the 'Clause Noun' structure of the MMC may look similar to an AC plus a noun. However, the above comparison has revealted that the 'Clause' of the MMC does not closely resemble ACs. (At the same times, it does not closely resemble verb-predicate sentences, either.)

6. Summary and concluding remarks

nDrapa has the MMC, although it is not a prototypical one. Four morphemes are attested in the 'Noun' slot of the nDrapa MMC: = ndei 'intention', -zi 'prospect', nkhei1/=nkhei 'appearance', and mAlo3 'readiness'. Among them, =ndei 'intention' is an enclitic (although it is also used as an independent noun (ndei3) outside MMCs). nkhei1/=nkhei 'appearance' can be either a word or an enclitic. -zi 'prospect' is a suffix, and $m \land lo3$ 'readiness' is consistently used as an independent noun. The MMC has a modal, evidential or aspectual meaning. Generally (with two exceptions), the 'Clause' of MMC cannot stand as an independent sentence. The 'Clause' of the MMC does not closely resemble ACs or verb-predicate sentences. These four forms attested in the 'Noun' slot of the MMC are rarely used outside the MMC and it is difficult to ascertain their etymologies. Nonetheless, possible etymologies have been suggested. The suggested etymologies show that the 'Noun' slot is filled only by fossilized morphemes. This, in turn, may indicate that the nDrapa MMC has reached a fairly advanced stage of grammaticalization.

Abbreviations

1 - first person; 2 - second person; 3 - third person; AC - adnominal clause; ACC - accusative-dative; ADM - admirative; ASS - associative; AUX auxiliary; B - Pattern B suffix; BEN - benefactive; CFM - confirmative; CLF - classifier; CNT - content (case); COM - comitative; CMPR comparative (case); COP - copula; DAT - dative-locative; DECL declarative; DIR - directional prefix; DU - dual; DIST - distal; DWN downward directional prefix; EXP - experiential; GEN - genitive; Fr - free translation; FT - example cited from a folk tale; INF - inferential; INW inward directional prefix; INS - instrumental; IPFV - imperfective; Lit literal translation; LOG - logophoric pronoun; MMC - mermaid construction; NEG - negative; NMLZ - nominalizer; NTL - neutral directional prefix; OUT - outward directional prefix; PFV - perfective; PL plural; PLN - place name; PST - past; PSN - person name; PTB proto-Tibeto-Burman; Q - question marker; REF - referential pronoun; RT remote time; SFP - sentence-final particle; SG - singular; TOP - topic; UP upward directional prefix; VS - verb stem.

Note

1. The Pattern A/B system may be considered corresponding to the conjunct/disjunct pattern in Newar (Hale 1980). However, there is a difference between the two: the conjunct/disjunct pattern is a form of person marking, while Pattern A/B in nDrapa concerns modality.

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