

Counterexpectation, concession, and free choice in Tibetan*

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1. Introduction

This paper investigates the uses of the Tibetan expression *yin.na'ang* and its compositional syntax/semantics, with data from original fieldwork.¹ Descriptively, *yin.na'ang* has three distinct uses: it is a counterexpectational discourse particle, translated as ‘but’ or ‘however,’ as in (1); it is a concessive scalar focus particle (CSP; see e.g., Lahiri 2010, Crnič 2011) as in (2); and it forms universal free choice items (\forall -FCI) from *wh*-words, as in (3).

(1) Counterexpectational ‘but/however’:

bKra.shis dge.rgan red. **Yin.na'ang** spyang.po mi-'dug.
Tashi teacher AUX YIN.NA'ANG clever NEG-AUX
‘Tashi is a teacher. **However**, [he] isn't smart.’

(2) Concessive scalar particle (CSP):

[Dep [gcig]_F **yin.na'ang** klog-na] yig.tshad mthar.'khyol-gi-red.
book one YIN.NA'ANG read-COND exam succeed-IMPF-AUX
‘[If [you] read **even/at least** [one]_F book], [you] will pass the exam.’

(3) *Wh* universal free choice item (\forall -FCI):

Nor.bu [(kha.lag) **ga.re yin.na'ang**] za-gi-red.
Norbu food what YIN.NA'ANG eat-IMPF-AUX
‘Norbu eats **anything / any** food.’

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¹My description here reflects the judgments of three speakers in the Tibetan community of Dharamsala, India. All three grew up with Tibetan as their first language, in Tibet and/or in India. I thank my speakers, Kunga Choedon, Pema Yonden, and Tenzin Kunsang, for their patience and support.

Tibetan data is reported in the Wylie orthography. Periods mark syllable boundaries where there are not morpheme boundaries, following the practice in Garrett 2001.

Yin.na'ang is transparently composed of three ingredients: the copula *yin*,² conditional ending *na*, and scalar focus particle ‘even’ *yang* (4).

- (4) *yin* + *na* + *yang* = *yin.na.yang* > *yin.na'ang* > *yin.na'i*
 COPULA COND EVEN

Yin.na'ang is a contraction of *yin.na.yang*, which is also used. In speech, *yin.na'ang* also appears as *yin.na'i*, reflecting the general reduction of *yang* to *ya'i* in speech (Tournadre and Sangda Dorje 2003:409). I follow Goldstein (2001:1000) in generally referring to *yin.na'ang* as the expression’s canonical form.

Here I pursue the hypothesis that all three of these uses of Tibetan *yin.na'ang* derive transparently from the independent semantics of these three ingredients in (4). That is, *yin.na'ang* can be thought of as, literally, “even if it’s...” Indirect evidence for this decompositional approach comes from the fact that this same basic phenomenon—the combination of a copula, conditional, and scalar ‘even’ particle being used together to form a counterexpectational particle, CSP, and *wh*-FCIs—is also attested in a number of unrelated languages, although with minor differences in the range of uses:

(5)	COP-COND-EVEN	particle	focus particle	<i>wh</i> -quantification
Tibetan	<i>yin-na-yang</i>	‘but’	CSP	∀-FCI
Kannada	<i>aad-ar-uu</i>	‘but’	CSP	∀-FCI, ∃-FCI, NPI
Japanese	<i>de--mo</i> ³	‘but’	CSP, ‘for example’	∀-FCI

See especially Balusu (this volume) for discussion of Kannada *aad-ar-uu*. See Watanabe 2013 on the additional use of Japanese *demo* as a focus particle, translated as ‘for example.’ For recent discussion of Japanese *wh*-FCI with *demo*, see Hiraiwa and Nakanishi To appear. Here I concentrate on describing and explaining the semantics of Tibetan *yin.na'ang* and leave the extensions of my analysis to these other languages for future work.

2. Counterexpectational *yin.na'ang*

I begin by describing and deriving the discourse particle use of *yin.na'ang*. The contrast in (6) shows that *yin.na'ang* marks the following proposition ((6a) and (6b) below) as counter to our expectations, given the preceding information.

(6) Counterexpectation is required:

Kho kha.lag mang.po za-gi-red.	Yin.na'ang...
he food a.lot eat-IMPf-AUX	YIN.NA'ANG
‘He eats a lot of food.	But...’

²In root clauses, the copula *yin* indexes ego evidentiality, in contrast to indirect evidential copula *red*. However, as Garrett (2001) shows, these evidentiality distinctions are neutralized in non-root clauses such as in conditional clauses, where *yin* is always used; see Garrett 2001:254.

³Hiraiwa and Nakanishi (to appear) propose that the Japanese surface form *demo* is a conventionalized contraction of *dear-te-mo*, which is transparently COP-COND-EVEN.

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- | | |
|--|---|
| a. rgyags.pa chags-gi-ma-red.
fat become-IMPF-NEG-AUX
‘[he] doesn’t gain weight.’ | b. #rgyags.pa chags-gi-red.
fat become-IMPF-AUX
‘[he] gains weight.’ |
|--|---|

The use of *yin.na’ang* must make reference to a salient proposition *p*, which has been asserted prior by the same speaker or another speaker, and not denied. The expression “*Yin.na’ang q*” then commits the speaker to *q*, while reflecting an attitude that *q* is counter to their expectations given *p*. Following Ippolito (2007) on English *still* and Balusu (this volume) on Kannada *aad-ar-uu*, I propose that *yin.na’ang* takes an unpronounced propositional anaphor as an argument, to refer to this preceding proposition *p*:

- (7) $[[pro=p]_F \text{ yin-na}] =\text{yang } q$
 COP-COND EVEN
Literal LF: EVEN (if it’s $[p]_F, q$)

Now let us consider the interpretation of (7). I take *P* to be a set of relevant alternatives to *p*: propositions *p'* where the conditional propositions “if *p', q*” are relevant to consider. The scalar particle *EVEN* will require that the prejacent conditional “if *p, q*” be less likely than “if *p', q*,” for all $p' \in P$. This scalar condition requires very low credence in “if *p, q*,” which is supported by an expectation that “if *p*, likely not *q*.” In this way, the utterance of (7) signals and reinforces the expectation that “if *p*, likely not *q*.” What we’ve done here is to use the scalar particle *EVEN* to build a *concessive* ‘although/even though’ relation from a *causal* one, as is cross-linguistically common; see especially König 1991:82–83.

Finally, we note that the at-issue content of (7) is the conditional claim “if *p, q*,” but the speaker of (7) becomes committed to *q*. First, consider the case where *p* is a public commitment of the speaker’s. By asserting “if *p, q*,” we reason by *Modus Ponens* that the speaker is also committed to *q*. Alternatively, consider the case where *p* is *not* a public commitment of the speaker’s. This is possible if another speaker proffers *p* and it is still on the table, but the speaker has not yet committed to it, and may not believe it. In this case, suppose that the set *P* exhausts all relevant possibilities worth considering, for what would lead to *q*. This results in what Bennett (1982) calls an “introduced” *even if* conditional; in this case, the assertion of “EVEN if $[p]_F, q$ ” will also implicate the truth of the consequent *q*. See von Stechow 1994:§5.3.3 for discussion.

Yin.na’ang can also be used in cases of semantic opposition, as in (8). English *but* is also used in such cases, as in the translation for (8); see Toosarvandani 2014 and citations there. Here, *pace* Toosarvandani on English *but*, I suggest that we can reduce the scalar opposition use in (8) to the counterexpectational use above by assuming a local homogeneity expectation: in (8), because Tenzin is tall, we expect Tashi to also be tall, licensing the use of *yin.na’ang*.

(8) ***Yin.na’ang* reflecting semantic opposition:**

- | | |
|---|--|
| bsTan.dzin gzugs.po ring.po 'dug.
Tenzin body long AUX
‘Tenzin is tall. But Tashi is short.’ | Yin.na’ang bKra.shis chung-chung 'dug.
YIN.NA’ANG Tashi small-RED AUX |
|---|--|

3. Aside: The syntax of *yin.na'ang* in argument position

Before we turn to the use of *yin.na'ang* to form FCIs and as a CSP, I will briefly discuss the external syntax of these expressions. In both of these uses, *yin.na'ang* appears to encliticize to a nominal expression: a *wh*-word for FCIs and a focused or focus-containing phrase in the CSP use. The resulting structure may occupy an argument position, as is especially clear in (9), where the whole *wh-yin.na'ang* FCI bears a dative case marker or postposition.

(9) *Wh-yin.na'ang* FCI with dative case:

Pad.ma [(phru.gu) su yin.na'ang]=la skad.cha bshad-kyi-red.
 Pema child who YIN.NA'ANG=DAT speech talk-IMPF-AUX
 'Pema talks to **anyone / any** child.'

Such structures are at first glance problematic for the hypothesis I pursue here, that all these expressions of the form $X=yin.na'ang$ are in fact concessive conditional clauses.

I propose that such a $X=yin.na'ang$ structure in argument positions is interpreted at LF as adjoined to the containing clause, with its surface position interpreted as a pronoun. The LF structure for the two versions of (9) above, with and without the nominal 'child,' are given in (10) below:

- (10) a. Literal (9): Pema talks to [even if {it/the child} is who] \Rightarrow
 b. LF: [even if {it/the child}₇ is who], Pema talks to them₇ \Rightarrow
 EVEN [if {it/the child}₇ is who, Pema talks to them₇]

The pronoun in the $X=yin.na'ang$ position at LF ('them' in (10)) is coreferential with a null pronoun ('it') or definite description ('the child') which is the first argument of the copular relation in the conditional clause. This coreference relationship is encoded here as coindexation (the shared index 7), the effects of which we will observe in the following sections.⁴ In this way, the $X=yin.na'ang$ structure can be thought of as a clause that occupies an argument position and describes that argument, similar to a head-internal relative clause or amalgam (Lakoff 1974). Similar analyses have been developed by Shimoyama (1999) for the syntax and interpretation of Japanese head-internal relatives and by Hirsch (2016) for English *ever* free relatives in argument position.

⁴As the study of donkey pronouns has made clear (see e.g., Groenendijk and Stokhof 1991), conditionals lead us to consider different possible dynamic updates or referential assignments. Intuitively, I take the conditional to quantify over different assignments which vary the referent of index 7 in both the antecedent and consequent clauses.

I furthermore follow Lewis (1975), Kratzer (1979), and others in taking conditionals to encode a restriction on the set of possible worlds or situations that a modal/temporal operator in the consequent clause quantifies over. To unify these two intuitions, concretely, here we can model modal/temporal operators—and thus their conditional restrictors—as quantifying over pairs of worlds/situations and assignment functions.

See also Erlewine 2020 for another approach, where both nominals share their nominal restrictor rather than a referential index, and referential variance is introduced by situation binding.

4. Concessive scalar *yin.na'ang*

I now turn to the use of *yin.na'ang* as a focus particle. Specifically, I argue that *yin.na'ang* expresses what has been described as “concessive scalar” semantics. Concessive scalar particles (CSPs) are licensed in a range of non-veridical environments, associate with a focus which is low on a contextual scale, and signal that that point on the scale should be (or have been) easy to attain—a quality that Kadmon and Landman (1993) describe as a “settle for less” (p. 385) interpretation, also attested with English *even* in some cases. CSPs may be translated as (scale-reversed) ‘even’ in some environments, but are better translated as ‘at least’ in some environments. Here I offer a first look at the distribution and interpretation of concessive scalar *yin.na'ang* and sketch an analysis for its behavior.

First, we observe that CSP *yin.na'ang* is licensed by negation in (11). Note that, without negation, example (11) is judged as unacceptable. In this case, *yin.na'ang* behaves akin to scale-reversed ‘even.’

(11) **CSP *yin.na'ang* licensed by negation:**

bKra.shis ang [gsum]_F-pa **yin.na'i** len-*(mi)-'dug.
 Tashi number three-ORD YIN.NA'ANG receive-NEG-AUX
 ‘He didn’t **even** get [third]_F place.’

CSP *yin.na'ang* is also licensed in conditionals, as in (12), based on example (2) above. Here we observe the CSP’s “settle for less” quality more clearly: reading just one book—the easiest to satisfy, although perhaps not ideal is an appropriate focus associate for *yin.na'ang*, but reading three books is not. *Yin.na'ang* in (12) can be translated by ‘at least,’ although *at least* is not similarly limited to the weakest element on the scale. Crnič (2011:106) gives a translation of Slovenian *magari* in a conditional as ‘even (just).’ Such a translation may also be appropriate here.

(12) **CSP *yin.na'ang* licensed by a conditional:**

[Dep [gcig/#gsum]_F **yin.na'ang** klog-na] yig.tshad mthar.'khyol-gi-red.
 book one/three YIN.NA'ANG read-COND exam succeed-IMPF-AUX
 ‘[If [you] read **at least** [one/three]_F book(s)], [you] will pass the exam.’

Finally, *yin.na'ang* is also licensed in imperatives, as in example (13), imagined as a plea to a difficult child. Here too, the “settle for less” quality is quite clear—eating more would be good, but the speaker is willing to accept the addressee eating just a little—and translations with ‘at least’ or ‘even just’ are both appropriate.

(13) **CSP *yin.na'ang* licensed in an imperative:**

Kha.lag [tis]_F **yin.na'i** za-(dang)!
 food a little YIN.NA'ANG eat-IMP
 ‘Eat **at least** [a little]_F food!’

I propose that treating *yin.na'ang* as the transparent combination of a copula, conditional ending, and EVEN scalar particle—with the syntax presented in section 3—allows us to explain the distribution and interpretation of this CSP use. Again, such a decomposition is also independently motivated for CSPs in Kannada and a number of other dravidian languages (Balusu, this volume) and Japanese. In addition, Lahiri (2010) notes that the Spanish CSP *aunque sea* is literally a concessive conditional marker *aunque* ‘even if’ with the subjunctive form of the copular verb *sea*. The analysis I sketch here is informed by the discussion in Lahiri 2010.

I begin with discussion of example (11), where *yin.na'ang* is licensed by negation. Following my syntactic proposal in section 3, the LF for (11) will schematically be as in (14a). I assume that the relevant places are limited to first, second, and third. This is reflected in the ordinary semantic value and alternative set denotation (a.k.a. focus-semantic value) of α in (14b). See footnote 4 above on the interpretation of the indexed pronouns in (14b).

- (14) a. LF: EVEN [α if it_6 's [third]_F place, NEG [Tashi got it_6]]
 b. $[[\alpha]]^o = \wedge$ if it_6 's third place, NEG [Tashi got it_6]
 $[[\alpha]]^{alt} = \{ \wedge$ if it_6 's n -th place, NEG [Tashi got it_6] : $n \in \{1, 2, 3\} \}$

Assuming that getting first place is less likely—or more noteworthy; see Herburger 2000—than second, and second place is in turn less likely than third, it stands to reason that *not* getting third place in $[[\alpha]]^o$ is the least likely of the propositions in $[[\alpha]]^{alt}$. We thus predict that the scalar inference of EVEN will be satisfied in (14).

In contrast, without the negation in (14), the prejacent will be the *most* likely or *least* noteworthy alternative, and thus the scalar inference of EVEN cannot be satisfied. In effect, the scalar particle EVEN serves to explain both the association of *yin.na'ang* with the weakest element on a scale (the “settling for less” quality) and the need for a licensing operator, such as negation, which reverses orderings by likelihood and noteworthiness.

Next, consider the grammatical variant of example (12), with focus ‘one.’ Here, *yin.na'ang* is itself inside a conditional clause. Assuming that the conditional clause in *yin.na'ang* will adjoin to the higher clause at LF, outside of the containing conditional clause, the LF for (12) will be as in (15a).

- (15) a. LF: EVEN [α if it_4 's [one]_F book, [if you read it_4 , you will pass the exam]]
 b. $[[\alpha]]^o = \wedge$ if it_4 's one book, [if you read it_4 , you will pass the exam]
 $[[\alpha]]^{alt} = \{ \wedge$ if it_4 's n books, [if you read them₄, you will pass the exam] : $n \geq 1 \}$

The prejacent $[[\alpha]]^o$ claims that, whatever its precise identity, if $g(4)$ is one book and you read it, you will pass the exam. This is a very weak claim—if you read any book, you will pass the exam—and it asymmetrically entails and thus is less likely than every other alternative in $[[\alpha]]^{alt}$. The scalar inference of EVEN will thus be satisfied, explaining the felicity of this structure. Reading more books is fine too, explaining the availability of an ‘at least’ translation in (12). If instead, the focus ‘one’ in (15) were changed to another numeral, not the weakest on the scale, the scalar inference of EVEN cannot be satisfied. This explains the unacceptability of example (12) above with ‘three’ in place of ‘one.’

Finally, I consider the use of *yin.na'ang* in the imperative (13). The analysis of such examples will depend on one's assumptions regarding the syntax/semantics of the imperative. Here I sketch one particular approach. I let the conditional clause in *yin.na'ang* adjoin at LF to a position within the content of the imperative speech act operator IMP, and take EVEN to take scope above this position, as in (16).

(16) LF for (13): EVEN [α IMP [if it₃ is [a little]_F food, you eat it₃]]

If we assume that imperatives do not have truth conditions (*pace* Kaufmann 2012), they cannot be ordered by likelihood or entailment. However, following Herburger's (2000) more general discussion of *even*, suppose we adopt a noteworthiness scale, with which we can order possible speech acts. In a context where a stronger request is also appropriate—for example, telling the child to eat a lot, or to eat everything—specifically choosing to request that they eat a little is noteworthy. The scalar inference of EVEN in (16) will accordingly be satisfied, again reflecting the “settling for less” flavor of the CSP.

5. Universal free choice with *wh* + *yin.na'ang*

Finally, I discuss the use of *yin.na'ang* to form universal free choice items (FCI) with *wh*-words. FCIs are licensed in the scope of certain modal/temporal operators or their conditionals, and are prohibited from episodic descriptions. Here I will sketch a compositional semantics for these NPIs, building on my general framework for *wh*-quantification in Alternative Semantics; see Erlewine 2019 for a recent introduction to this work in progress. See Erlewine 2020 for an extended presentation of the proposal in this section.

I start by sketching my analysis using example (3) above, ‘Norbu eats anything,’ without the nominal ‘food.’ (See Erlewine 2020 for discussion with ‘food.’) Following the proposal in section 3, the LF for this sentence will have the basic shape in (17):

(17) a. Literal (3): Norbu eats(IMPF) [even if it's *what*] \Rightarrow
 b. LF: EVEN [α if it₅'s *what*, Norbu eats(IMPF) it₅]

I first address the interpretation of the *wh*-phrase ‘what’ in (17). In the two-dimensional Alternative Semantics framework for focus semantics adopted here, *wh*-words have an alternative set denotation that ranges over its domain, but no defined ordinary value (Ramchand 1997, Beck 2006, Kotek 2019). $\llbracket \alpha \rrbracket^o$ in (17a) will thus also be undefined, blocking EVEN from being computed. To repair this issue, I propose the covert \exists operator in (19).⁵

(18) a. $\llbracket ga.re \text{ ‘what’} \rrbracket^o$ undefined
 b. $\llbracket ga.re \text{ ‘what’} \rrbracket^{alt} = \{x : x \text{ inanimate}\}$

(19) a. $\llbracket \exists \alpha \rrbracket^o = \bigvee \llbracket \alpha \rrbracket^{alt}$
 b. $\llbracket \exists \alpha \rrbracket^{alt} = \llbracket \alpha \rrbracket^{alt}$

⁵The effect of \exists on the ordinary value is similar to that of the \exists operator defined in Kratzer and Shimoyama 2002 and Alonso-Ovalle 2006, but these works employ a one-dimensional Hamblin semantics. The \exists operator in (19) defines an ordinary value but simply passes up its complement's alternative set, which will be important for modeling this and many other cases of *wh*-quantification. See Erlewine 2019.

Placing the covert \exists in the LF (17b), we yield (20a). Following Arregui et al. 2014 and citations there, I will model imperfective aspect as a kind of universal modal that quantifies over a particular set of situations, S . Taking modals to quantify over situation-assignment pairs, which are then restricted by the conditional (see footnote 4), α in (20a) will have the ordinary and alternative set denotations in (20b).

- (20) a. LF: EVEN [α if \exists [it₅'s *what*], Norbu eats(IMPV) it₅] (revised from (17b))
 b. $\llbracket \alpha \rrbracket^o = \wedge \forall \langle s, g \rangle [s \in S \wedge g(5) \text{ exists, inanimate} \rightarrow \text{Norbu eats } g(5) \text{ in } s]$
 $\llbracket \alpha \rrbracket^{\text{alt}} = \{ \wedge \forall \langle s, g \rangle [s \in S \wedge g(5) = x \rightarrow \text{Norbu eats } g(5) \text{ in } s] : x \text{ inanimate} \}$

Informally, the prejacent $\llbracket \alpha \rrbracket^o$ claims that, in all relevant situations with assignment g , if $g(5)$ exists and is inanimate, Norbu eats it in that situation. Notice that this is a reasonable paraphrase for the \forall -FCI: whatever *it* is, Norbu eats *it*. There was no need here to stipulate the universal force of the \forall -FCIs; universal force is the natural consequence of allowing the coindexed referents to vary, parasitic on the modal's universal quantification.

I furthermore claim that the scalar particle *EVEN* that is a part of *yin.na'ang* systematically ensures that the relevant quantification will always be universal. Let's first see how *EVEN* is satisfied in (20) above. We observe that each alternative in $\llbracket \alpha \rrbracket^{\text{alt}}$ is itself a conditional proposition, similar to $\llbracket \alpha \rrbracket^o$, but restricted to the case of a particular inanimate individual. The prejacent $\llbracket \alpha \rrbracket^o$ is stronger than all of the propositions in $\llbracket \alpha \rrbracket^{\text{alt}}$, asymmetrically entailing them all, and thus *EVEN* in (20a) will be satisfied.

Now consider the case where the relevant modal operator is a possibility modal instead. I illustrate this possibility schematically in (21), with a hypothetical variant of (20) with a possibility modal in place of the universal imperfective operator. Notice that the prejacent $\llbracket \alpha \rrbracket^o$ in (21b) is now systematically *weaker* than, and asymmetrically entailed by, all of its alternatives in $\llbracket \alpha \rrbracket^{\text{alt}}$. The scalar inference of *EVEN* in this case can never be satisfied, leading the structure in (21a) to be judged as ungrammatical.

- (21) a. LF: EVEN [α if \exists [it₅'s *what*], Norbu CAN eat it₅]
 b. $\llbracket \alpha \rrbracket^o = \wedge \exists \langle s, g \rangle [s \in S \wedge g(5) \text{ exists, inanimate} \wedge \text{Norbu eats } g(5) \text{ in } s]$
 $\llbracket \alpha \rrbracket^{\text{alt}} = \{ \wedge \exists \langle s, g \rangle [s \in S \wedge g(5) = x \wedge \text{Norbu eats } g(5) \text{ in } s] : x \text{ inanimate} \}$

Wh-yin.na'ang FCIs can however also cooccur with possibility modals, as in (22) below. However, I claim that in all such cases, the conditional in *yin.na'ang* associates with a higher universal operator—in this case, again an imperfective operator. If instead the conditional restricts the modal base for the possibility modal, we would predict *wh-yin.na'ang* to descriptively have existential force, but lead to a configuration as in (21) where *EVEN* cannot be satisfied. In reality, the interpretation of (22) is unambiguous, with *wh-yin.na'ang* being a universal FCI taking scope over the possibility modal. This result is enforced by the scalar particle in *yin.na'ang*.

(22) **Wh-yin.na'ang FCI with deontic possibility modal:**

Nga-'i khyi [(kha.lag) ga.re yin.na'ang] za-chog-gi-red.
1sg-GEN dog food what YIN.NA'ANG eat-ALLOWED-IMPF-AUX
'My dog is allowed to eat anything / any food.' \forall -FCI > *allowed*

In addition, we expect the scalar inference of EVEN to be unsatisfiable with an episodic description, with no modal quantification at all. This explains the infelicity of the *wh-yin.na'ang* FCI in examples such as (23):

(23) **Wh-yin.na'ang ungrammatical in episodic descriptions:**

*bKra.shis da.lta [(kha.lag) ga.re yin.na'ang] bzas-tshar-song.
Tashi now food what YIN.NA'ANG eat-finish-AUX
Intended: \approx 'Tashi finished eating any food now.'

The proposal here represents a new approach to universal free choice, presented in greater detail in Erlewine 2020. I claim that the universal force of *wh-yin.na'ang* \forall -FCIs is parasitic on the universal force of the modal operator which is restricted by *yin.na'ang*'s conditional clause. The scalar particle EVEN in *yin.na'ang* then enforces that this quantification is universal, indirectly ensuring that the FCI will itself will descriptively be universal.

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