

WHAT ‘NOT’ MIGHT MEAN. EXPLETIVE NEGATION IN ATTITUDE CONTEXTS

Maria Margarita Makri
University of York

Abstract: *This paper examines the syntax-semantics of expletive negation in Modern and Classical Greek, Latin, Spanish, French, Russian and Hebrew attitude complements. It shows that, contrary to what is standardly assumed, expletive negation is not necessarily licensed in Subjunctive complements. It is licensed by predicates allowing for more than one live doxastic alternative, it scopes above Tense, and it is in complementary distribution with epistemic modals. Based on novel data, I show that expletive negation is not semantically vacuous; I propose that it is a weak epistemic modal that marks the contextually provided ordered in terms of likelihood alternatives as equally likely.*

Keywords: *expletive negation, epistemic modals, attitude predicates, clausal complements*

1. Introduction

This paper examines the distribution and the meaning of Expletive Negation (hence EN) in sentential complements of attitude predicates¹. EN refers to sentential negators and negative complementizers that do not reverse the polarity of a proposition and thus seem to be semantically vacuous (1).

- (1) Temo no te vaua a gustar demasiado [Spanish]
fear EN you go.SBJ at like too-much
'I am afraid in case/lest you're going to like it too much.' (Butt and Benjamin 2011)

The aim of this paper is to identify the necessary conditions under which EN is licensed and its semantic contribution. Section 2.1 examines the semantics of the predicates that license EN and shows that they all have existential force and select for complements of type <s,t>, namely questions. Section 2.2 compares EN in Modern Greek (MG), Classical Greek (ClGr), Spanish, French, Latin, Hebrew and Russian clausal complements and shows that (i) EN is not licensed only in Subjunctive complements as has been assumed in the literature so far and (ii) that it not licensed in clauses with anaphoric tense by predicates

¹ EN can be found in a wide array of environments: matrix (biased) questions, rhetorical questions, exclamatives, free relatives, degree comparatives, metalinguistic comparatives, *before*-clauses, *until* clauses, *unless*-clauses, *without*-adjuncts, conditionals. The possibility of providing a uniform account for all the environments that license EN is itself a question worth investigating, however, it lies beyond the scope of this paper.

with existential force (\exists or $\neg\forall$). Section 3 provides some new evidence that EN is not semantically vacuous and proposes that EN has the meaning of a weak epistemic modal. Section 4 concludes this paper.

2. The distribution of EN

2.1. Predicates that license EN

EN is licensed in the complements of verbs denoting fear, hope, doubt, obstruction and interrogative complements (complements of rogative or negated veridical responsive predicates). For a long time the common property of predicates licensing EN was assumed to be negativity and/ or non-veridicality (Espinal 2000; Landau 2002; Wouden 1994). Yoon (2011) was the first to observe that negativity is not a necessary condition for EN-licensing since EN is grammatical in complements of Korean and Japanese *hope*, however, she draws a link between EN and non-veridicality. As I will show below, Classical and Modern Greek *hope* license EN too (Table 1) providing further evidence for dissociation between EN licensing and negativity, however, non-veridicality is not sufficient to explain the distribution of EN either. Based on existing semantic analyses of EN-selecting predicates, I will show that EN is licensed only by predicates that have existential force and select for complements of type $\langle\langle s,t \rangle, t \rangle$.

	MG	CIGr	Latin	Spanish	French	Hebrew	Russian
<i>fear-complements</i>	+	+	+	+	+		+
<i>hope-complements</i>	+	+	-	-	-		-
<i>dubitatives</i>	-	+	+*	+	+*		+
<i>hinder, resist, refuse, delay**</i>	-	+	+*	-	+	+	-
<i>interrogative complements</i>	+	+	+	-	-		-

*EN is licensed on condition that the matrix predicate is negated.

**The negative verbs that license EN may vary across languages.

Table 1: EN Sentential Complements

2.1.1. Emotive Doxastics and Dubitatives

Emotive doxastics (*fear, hope*) is the first class of verbs that introduce EN. They are classified as such because of their hybrid nature: they present doxastic alternatives of an attitude holder like doxastics and they involve a preference component like desideratives/directives. Their hybrid nature is also reflected in epistemic modal licensing: emotive doxastics license possibility epistemics like doxastics but they do not license

- (6) $\llbracket \text{doubts}_C \text{ that } \varphi \rrbracket^{c,w,S,g} =$
 $\lambda x: \varphi\text{-verifiers in } S' \neq \emptyset \ \& \ \varphi\text{-falsifiers in } S' \neq \emptyset.$ uncertainty condition
 If defined =1 iff
 $\exists w' \in S': [\llbracket \varphi \rrbracket^{c,w',S',g} = 1] \wedge$ doxastic assertion
 $\varphi\text{-verifiers} <_{\text{LIKELY}_{a,w}} \varphi\text{-falsifiers}$ preference assertion
 where $S' = \text{DOX}_{a,w}$ and
 $\varphi\text{-verifiers in } S' = \lambda S'': S'' \subset S' \ \& \ \forall S''' \subset S'': [\llbracket \varphi \rrbracket^{c,w',S''',g} = 1] =$
 $\text{pow}(S' \cap p)$
 $\varphi\text{-falsifiers in } S' = \neg \varphi\text{-verifiers in } S'$

2.1.2. Interrogative Predicates

Veridical responsive predicates (e.g. *know, remember, tell, forget, be aware*) select for questions or declarative complements. They are implicatives with a *that*-complement, whereas with *whether* they are not:

- (7) O Janis thimate pos/ an/ *mi-pos itan I Maria pu eklise tin porta. [MG]
 the John remembers that if EN-that was the Maria that closed the door.
 John remembers that/ whether/ *lest Mary shut the door
- (8) John knows that Mary closed the door.
Presupposition: Mary closed the door.
Assertion: John believes that Mary closed the door.
- (9) John knows whether Mary closed the door.
Assertion: John knows the correct answer to ‘Did Mary close the door?’

They can also select EN complements if they are negated (10).

- (10) Dhen thimate pos/ an/ mi-pos I Maria eklise tin porta. [MG]
 NEG remember that if EN-that the Maria closed the door
 (S)he does not remember that/if/whether Mary shut the door.
- (11) a. $\llbracket \text{know that } p \rrbracket^w = \lambda Q. \in D_{\langle st, t \rangle}: \exists p \in Q [p(w) = 1] \wedge \lambda x. \forall p \in Q [p(w) = 1 \rightarrow \text{DOX}_{x,w} \subseteq p].$
 b. $\llbracket \text{know whether } p \rrbracket^w = \lambda Q. \in D_{\langle st, t \rangle}: \lambda x. \forall p \in Q [p(w) = 1 \rightarrow \text{DOX}_{x,w} \subseteq p].$
 (based on Uegaki’s (2012) semantic analysis of *know*)

In (11) $D_{\langle st, t \rangle}$ is the domain of sets of propositions, Q a question (set of propositions) and p is a proposition.

Rogative predicates (e.g. *ask, wonder, investigate, examine*) select for questions or EN complements but not *that*-complements:

- (12) Rotisa ean/ mi-pos/ *pos/ *na hriazosun tipota. [MG]
 Asked.1SG if/ EN-that/that/ SBJ needed.2SG anything
 I asked whether you needed anything.

As Uegaki (2012) argues both veridical responsive and rogative predicates select for questions ($\langle\langle s, t \rangle, t \rangle$). As he shows, the difference between the two lies in that rogative predicates carry a “non triviality presupposition” defined as (13) which triggers the incompatibility of a rogative predicate with a *that*-complement:

- (13) $\llbracket \text{wonder} \rrbracket^w$: $(Q)(x)$ is defined iff x can believe both of the following:
 a. $\lambda w. \exists p \in Q[p(w)=1]$. In prose, there is a true proposition in Q .
 b. $\lambda w. \exists p \in Q[p(w)=0]$. In prose, there is a false proposition in Q . (Uegaki 2012)

The non-triviality presupposition of rogative predicates is actually the same with the uncertainty condition defined by A&H (2013) for dubitatives and emotive doxastics. The properties of the predicates discussed are summarized in Table 2.

	Presupposition	Modal Force	Selected Complements	Scalar Assertion
Proposition Selecting Predicates e.g. <i>believe</i>		\forall	$\langle s, t \rangle$ sets of propositions	No
Responsive Predicates e.g. <i>know</i>		\forall	$\langle\langle s, t \rangle, t \rangle$ functions from sets of propositions to truth values	No
Rogative Predicates e.g. <i>ask</i>	non-triviality presupposition (=uncertainty condition)	\exists		No
Emotive Doxastics e.g. <i>fear, hope</i>				Yes ($>_{DES}$ OR $<_{DES}$), $>_{LIKELY}$
Dubitatives e.g. <i>doubt</i>				
Negative Predicates e.g. <i>refuse</i>				Yes $<_{LIKELY}$
Desideratives e.g. <i>want</i>			$\langle t \rangle$ propositions	Yes ($>_{DES}$)

Table 2: The semantics of predicate classes without EN.

2.2. Tense and mood properties of sentential complements with EN

2.2.1. EN and Mood

So far, EN has been assumed to be licensed only in Subjunctive complements (Abels 2002, 2005; Yoon 2012). However, if we look into a bigger set of languages (Table 3

below), it is clear that EN is not licensed solely in Subjunctive complements: it can also be licensed in clausal complements with Indicative, Optative or Infinitival complements.

If EN can be licensed in non-subjunctive complements, the question that arises is why EN is ungrammatical in (14-b). Note that non-veridicality cannot explain the distribution of EN in this case either: both (14-a) and (14-b) are non-veridical:

(14) [French]

- a. Je crains qu' il ne vienne.
 I fear that he EN come.SBJ.
 'I fear that he might come.'
- b. Je crains d'(*n<e>) apprendre une mauvaise nouvelle.
 I fear.ISG of EN learn.INF one bad news.
 I fear hearing some bad news.

	Emotive Doxastics	Dubitatives	Interrogatives	Negative Predicates
Modern Greek	Indicative Subjunctive		Indicative	
Classical Greek	Indicative Subjunctive Optative Infinitive	Subjunctive Optative Infinitive	Indicative Subjunctive	Indicative Subjunctive Optative Infinitive
Latin	Subjunctive	Subjunctive	Subjunctive	Subjunctive
French	Subjunctive	Subjunctive		Subjunctive
Spanish	Subjunctive			
Hebrew				Infinitive
Russian	Subjunctive Infinitive	Subjunctive		

Table 3: Mood distribution in EN complements

To sum up, there are two puzzles to explain regarding the distribution of EN. The first one refers to its crosslinguistic distribution, especially in infinitival complements: EN is grammatical with Classical Greek, Russian and Hebrew infinitives but not French or Spanish ones. (cf. Table 3). The second one is the distribution of EN within a language, e.g. French. If Subjunctive is not a condition for licensing EN the difference between Subjunctive and Infinitival complements remains unexplained.

2.2.2. *EN is licensed in CPs with non-anaphoric Tense*

In this section, I show that the dependency between EN and Subjunctive is actually an epiphenomenon of the fact that EN is not licensed in sentences with anaphoric tense. Semantic Tense of a clause can be (Iatridou 1988; Landau 2004 a.o. cf. Piccolo 1984):

Independent or **free**: The embedded Tense can have any Tense specification, e.g. indicative clauses. In these clauses morphological tense corresponds to semantic tense.

Dependent: The embedded Tense alternations are constrained by the matrix predicate, e.g. some of the Balkan subjunctives. In these clauses morphological tense alternations reflect aspectual alternations.

Anaphoric or empty: The event of the embedded clause is not distinct from the event of the matrix predicate. In these clauses the morphological Tense of the embedded predicate is always [-Pst]. The absence of tense morphology in those sentences is due to the absence of a T(ense) projection in the embedded clause (Grano 2012).

In this study three criteria have been used for characterising the Tense of the embedded CPs:

1. The availability of a matrix and an embedded temporal adverb with distinct reference:

(15) **Včera** oni bojalis’ kak by im **zavtra** ne opzdat’ na poezd.
 Yesterday they feared how MOD them tomorrow NEG be.late.**INF.PERF.** on train.
 ‘Yesterday they feared that they might miss the train.’ (N. Radkevic p.c.)

2. Licensing of an overt embedded subject:

(16) Ha-bikus ha-acun mana me-ha-mexirim laredet.
 the-demand the-huge prevented from.C-**the-prices** to-fall.**INF**
 ‘The huge demand prevented the prices from falling.’³ (Landau 2002:469)

3. Availability of morphological tense alternations⁴:

(17) [CIGr]
 a. apistountes auton me: he:ksein
 disbelieve.PRS.PCPL.PL.ACC him.PR EN come.**FUT.INF**
 ‘disbelieving that he might come’ *Thuc.* 2.101
 b. an tis ... apistoie: me: genesthai ton stolon tosouton hoson
 if somebody disbelieve EN be.**PST.PFV.INF.** the navy so.big as
 hoi poie:tai eire:kasi
 the poets have.told.PRS.PRF
 ‘if somebody disbelieve that the navy was as big as the poets have said’ *Thuc.* 1.10

Table 4 below, summarizes the tense properties of EN complements according to the aforementioned criteria. It is evident that EN is not licensed in sentences with anaphoric tense or, in other words, it is not licensed in complements that lack a Tense projection. This

³ The reader is referred to Landau’s (2002) paper for diagnostics that show that *me* ‘from’ in (16) is not a preposition but a complementizer and that the DP following *me* ‘from’ is the subject of the infinitive.

⁴ The availability of morphological tense alternations is a sufficient but not necessary condition for characterizing tense as free or dependent (non-anaphoric).

indicates that EN selects a TP and scopes above Tense, otherwise it would also be grammatical in clauses with anaphoric tense, namely clausal complements lacking a T-layer.

	Emotive Doxastics	Dubitatives	Interrogatives	Negative Predicates
Modern Greek	Free		Free	
Classical Greek	Free Dependent	Free	Free Dependent	Free
Latin	Dependent	Dependent	Dependent	Dependent
French	Dependent	Dependent		Dependent
Spanish	Dependent			
Hebrew				Free
Russian	Free	Free		

Table 4: Tense of EN complements

This link between EN and T can capture the strong correlation between EN and Subjunctive, while it explains why EN is compatible with Classical Greek, Russian and Hebrew infinitives but not Spanish or French ones.

To return to our French example, *craindre* ('fear') may select for Subjunctive or Infinitival complements. French Subjunctive complements are used in obviative environments and inflect for Tense in contrast to the obligatorily controlled infinitival complements. If we assume that EN is ungrammatical in sentential complements with anaphoric tense, as French infinitival complements are, then it follows that EN can only be licensed in the Subjunctive complements *craindre* ('fear') selects. We can dispense, therefore, with the condition for Subjunctive. On the other hand, Classical Greek, Hebrew and Russian infinitives have a T-projection and that is the reason why they are compatible with EN.

	CIGr	Hebrew	Russian	Latin	French	Spanish
Does the language have infinitival Cs?	Yes	Yes	Yes	No	No	No
Is the EN infinitive introduced by an overt C?	No	Yes	Yes	N/A	N/A	N/A
Categorial Status of EN infinitival clauses	CP	CP	CP	N/A	N/A	N/A
Categorial Status of infinitival clauses	CP	TP	TP	CP/VP	CP	CP
Can the infinitives license their own subject	Yes	Yes	Yes	(Yes)	No	No
Can the infinitives have their own tense domain?	Yes	Yes	Yes	(Yes)	No	No

Table 5: Comparative table of Infinitival complements

3. *The meaning of EN*

In this section, I demonstrate that EN is not semantically vacuous and I propose that EN is an epistemic modal⁵ that marks the lack of evidence on the part of the attitude holder about the probability of the different alternatives, rendering them to equally probable.

3.1. *Asymmetries between Declarative and EN-complements*

3.1.1. *Epistemic modals are not licensed in EN-complements*

Expletive Negation is in complementary distribution with epistemic modals. This is illustrated in the minimal pair in (18) below:

- (18) a. Fovame pos mpori na fighun ta pdhia simera.
 Fear.1SG that might SBJ leave the children today
 ‘I fear that children might leave today.’
 b. *Fovame mi-pos mpori na fighun ta pedhia simera.
 Fear EN-that might SBJ leave the children today
 ‘I fear that children might leave.’

3.1.2. *Answering Questions: No doxastic assertion in EN-complements*

In §2.1.1 I followed A&H (2013) who suggested that in a sentence like [*a fears that φ*] there is an assertion that in some of the doxastic worlds of the attitude holder *φ* is true. The felicity of a sentence as an answer to a question can function as a diagnostic whether an emotive doxastic introduces a doxastic assertion (19). An emotive doxastic with a *that*-complement is a felicitous answer while with a complement containing EN it is not:

- (19) — Erhete o Nikos? — Fovame pos/ #mi-pos erhete.
 come.3SG the N. Fear.1SG that EN-that come.3SG.
 — Is Nikos coming? — fear.1SG that he is coming.

This indicates that the clause with EN does not have a doxastic assertion as the one with the *that*-complement does. Additionally, the answer with EN does not seem to make any statement about the likelihood of Nikos’s coming. Both possibilities (*φ* and $\neg\phi$) are equally likely. The meaning of a sentence with EN is illustrated in (20) below:

⁵ The semantic contribution as well as the syntactic position of EN could also indicate that EN is an evidential marker. In this paper, I adopt Matthewson’s (2012) thesis that all evidentials contribute epistemic modal semantics, and all epistemic modals contribute evidential semantics. I leave to future research an investigation of whether a finer distinction between epistemic modals and evidentials is necessary to account for the whole array of EN constructions.

	Presupposition	Modal Force	Selected Complements	Scalar Assertion
Responsive Predicates e.g. <i>know</i>		$\neg\forall$	<<s,t>,t> functions from sets of propositions to truth values	No
Rogative Predicates e.g. <i>ask</i>	non-triviality presupposition (=uncertainty condition)	\exists		No
Emotive Doxastics e.g. <i>fear, hope</i> Dubitatives e.g. <i>doubt</i>				Yes ($>_{DES}$ OR $<_{DES}$), \geq LIKELY
Negative Predicates e.g. <i>refuse</i>				Yes \leq LIKELY

Table 6: The semantics of predicates selecting EN

3.2. Extensions: Greek Counterfactuals and Root Questions

3.2.1. Greek Conditionals

In §3.1 I proposed that EN acts on a contextually available likelihood scale and asserts that according to the attitude holder the embedded proposition being true is equally likely as it being false. Further evidence about the status of EN as an epistemic modal comes from another environment, namely counterfactuals.

Iatridou (2000 fn.4) points that a future morpheme (or *might*) is necessary in the consequent of a counterfactual in many (but not all) languages. On the other hand, Roussou (2000), while discussing the structural position and meaning of *tha* (‘will’ MG) points out that *tha* (will) is not a Tense particle but a modal as it has an exclusively epistemic reading if combined with a [+Past,+Perf] predicate and it forms a counterfactual if combined with a [+Past,-Perf] predicate. So taking into account Roussou’s proposal we can revise Iatridou’s observation and state that an epistemic modal (*will* or *might*) is necessary to form Greek (and English) counterfactuals. If the proposal that EN is an epistemic modal is correct, then we expect EN to be licensed in the consequent of counterfactuals. Indeed, this prediction is borne out:

- (23) An epine afto to siropi mi-pos ghinotan kala.
 If drank.Pst.Imp. that the syrup, NEG-that be.Pst.Imp well
 ‘If he had drank that syrup s/he might recover.’

Notice that (23) conveys that recovering would be possible if the subject had drunk that syrup. The minimally different (24) indicates that in all the worlds that the subject drank the syrup they recover:

- (24) An epine afto to siropi tha ghinotan kala.
If drank.Pst.Imp. that the syrup, will be.Pst.Imp well
'If he had drank that syrup s/he would recover.'

The same effect is also found in other types of conditionals:

- (25) An pji afto to siropi tha/ mi-pos ghini kala.
If drink.Prs.Pfv. that the syrup, will/ EN-that be.Prs.Pfv well
With *tha*: 'If he drinks that syrup s/he will recover.'
With EN: 'If he drinks that syrup, s/he might recover.'

3.2.2. *Greek Biased Questions (Roussou 2015)*

Roussou (2015) extends the analysis of EN as an epistemic modal put forward in this paper to another environment that licenses EN, namely root questions. She argues that expletive *mi-pos* (NEG-*that*) in Greek is a discourse modal particle. It is licensed in clausal complements and matrix questions because both contexts provide an alternative set of possible worlds. She shows that *mipos* contributes an epistemic modality reading in root questions as demonstrated in this paper for clausal complements, and she argues that *mi-pos* (EN-*that*) in root questions provides the speaker's view ('*I wonder*') on the speech event in relation to epistemic modality.

4. *Summary and Conclusions*

In this paper, I examined the distribution and semantic contribution of EN in complements of attitude predicates. Through a comparison of Modern Greek, Classical Greek, Spanish, French, Latin, Russian and Hebrew sentential complements with EN I showed that EN does not correlate with mood but with Tense and that it scopes above T. I also examined the predicates that license EN and I showed that what they have in common is that they allow for a set of more than one live doxastic possibility. Through this cross-linguistic comparison I put forward two necessary conditions for EN licensing in attitude complements: the attitude predicate must select for a clause with non-anaphoric tense and it must assert or presuppose that there is a bipartition of the doxastic alternatives of the epistemic subject. This proposal significantly restricts the environments EN is licensed, even though it does not identify what are the sufficient conditions for EN licensing.

Therefore, it explains why EN is ungrammatical in French and Spanish infinitives; however, it cannot shed light on why EN is ungrammatical in attitude complements of other languages like Italian or English.

As far as the meaning of EN is concerned I demonstrated through asymmetries with other minimally different declarative complements that EN is not semantically vacuous and I proposed that it denotes the attitude holder's lack of evidence regarding the probability of the different alternatives, rendering them equally likely. In light of this analysis, EN acts as a weak epistemic modal. This analysis is supported by the fact that EN scopes above Tense (it is well established that epistemic modals also scope above Tense (Abusch 1997; Cinque 1999; Hacquard 2006; Iatridou 1990; Picallo 1990; Stowell 2004)), its complementary distribution with other epistemic modals, its incompatibility with predicates that do not

allow for more than one doxastic possibility like *believe*, its infelicity in answers and its interaction with matrix negation. I also showed how this analysis can be extended to other EN licensing environments like conditionals and matrix questions.

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