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# THE EXPRESSIBILITY OF MODALITY IN REPRESENTATIONAL COMPLEMENT CLAUSES IN BRAZILIAN PORTUGUESE

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- **ABSTRACT:** This paper deals with the (im)possibility of expressing a variety of modal categories within the context of the layering approach to complementation in Functional Discourse Grammar (FDG). Our hypothesis is that modal expressions in complement clauses only pertain to operator or modifier classes of the highest layer relevant for that type of embedded construction and for all lower levels. In order to test this hypothesis, occurrences of complement clauses in two databases of spoken Brazilian Portuguese are analyzed. The investigation of this hypothesis is restricted to representational complement clauses.
- **KEYWORDS:** Complement clauses; representational level; modality; operator; modifier.

## 1 Introduction

This paper investigates the question to what extent the (im)possibility of expressing a variety of modal categories in complement clauses in Brazilian Portuguese may be explained in terms of the layering approach to complementation in Functional Discourse Grammar (FDG). The data used to answer this question derive from a corpus of oral language. After briefly discussing the corpus that was used for this study in section 2, we summarize the relevant parts of the theory of Functional Discourse Grammar, including its approach to complementation and to modality, in section 3. Section 4 then presents our hypotheses with respect to the distribution of modal elements in the main types

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of complement clause recognized within FDG. The parameters of analysis are established in section 5 and the systematic analysis of the corpus data is presented in section 6, where we also contrast the results of the corpus analysis with grammaticality judgments of constructed examples in order to show that the distribution encountered is not an artifact of the constitution of the corpus. In section 7 we expand the analysis to some phasal predicates. Conclusions are presented in section 8.

## **2 The corpus**

The corpora analysed in this research constitute two databases of spoken Brazilian Portuguese: the NURC corpus and the IBORUNA corpus. NURC is a Corpus of the Spoken Portuguese Grammar Project. This project collected samples of spoken Brazilian Portuguese in five state capitals: São Paulo (SP), Rio de Janeiro (RJ), Porto Alegre (POA), Recife (REC) and Salvador (SSA). Three different types of samples were recorded in each of these cities: formal elocution (EF), dialogues between the speaker and the interviewer (DID) and dialogues between two speakers (D2). The speakers are men and women born in these state capitals with high level of education (completed undergraduation), whose parents are also Brazilian. In order to indicate the source of the examples we use the following coding convention: type of sample (EF, DID or D2), the city in which the data were collected (SP, RJ, POA, REC, SSA) and the number of recording.

IBORUNA is a corpus with samples of spoken Brazilian Portuguese collected in São José do Rio Preto and six adjoining cities. The speakers are men and women born in those cities or living there since they were 5 years old. Although this corpus includes speakers of different levels of education, we analyzed only samples of urban standard pattern, the same kind of data collected in NURC corpus. The coding convention for this corpus is: type of sample (AC – amostra censo, which means, personal interviews collected according to the linguistic census in the São José do Rio Preto area) and the recording number.

The data selected include all representational complements containing at least one modal expression (operators and modifiers). Examples with incomplete and/or unanalyzable propositional and predicational complements and parenthetical uses of complement taking predicates are excluded.

## **3 Functional Discourse Grammar**

Functional Discourse Grammar is the successor of Functional Grammar (DIK, 1997). A summary of the various properties of this model may be found in

Hengeveld (2005) and Hengeveld and Mackenzie (2006); a full presentation of the model is given in Hengeveld and Mackenzie (2008, Forthcoming). A general overview of the FDG model is given in Figure 1, which shows that various levels of analysis are recognized within the grammar: the interpersonal, the representational, the morphosyntactic, and the phonological level. Each level consists of various hierarchically ordered layers.

### 3.1 Levels

At the interpersonal level the hierarchical structure given in (1) applies:

$$(1) (M_1; (A_1; [(F_1) (P_1)_S (P_2)_A (C_1; [...(T_1) (R_1)...] (C_1))] (A_1)) (M_1))$$

The hierarchically highest unit of analysis given here is the move (M), which may contain one or more discourse acts (A). A discourse act is organized around a basic illocution (F), which combines with the speech act participants (P, the speaker S and the addressee A) and the communicated content C evoked by the speaker. The communicated content, in turn, contains a varying number of ascriptive (T) and referential (R) acts. Note that the latter two units are operative at the same layer, i.e. there is no hierarchical relation between them. In general, then, at the interpersonal level units are analysed in terms of their communicative function.

At the representational level the layers presented in (2) are relevant:

$$(2) (ep_1; (p_1; (e_1; (f_1; [(f_2) (x_1)] (f_1)) (e_1)) (p_1)) (ep_1))$$

At this level of analysis linguistic units are described in terms of the entity type they designate. These entity types are of different orders: third-order entities or propositional contents (p); second-order entities or states of affairs (e); first-order entities or individuals (x); and zero-order entities or properties (f). Propositions may furthermore be joined into episodes (ep). Note that an (f) unit occurs both as a unit characterizing a states-of-affairs (f<sub>1</sub>) in (2), and as an independent constituent (f<sub>2</sub>) within the state of affairs. The units (f<sub>2</sub>) and (x<sub>1</sub>) in (2) belong to the same layer, i.e. there is no hierarchical relation between them.

At the structural level, constituent structure representations of clauses, phrases and words are given, while the phonological level provides the overall segmental and suprasegmental phonological representation of a construction. At these levels underlying units become more language-specific, but the assumption is that differences between languages can be described systematically along typological parameters.

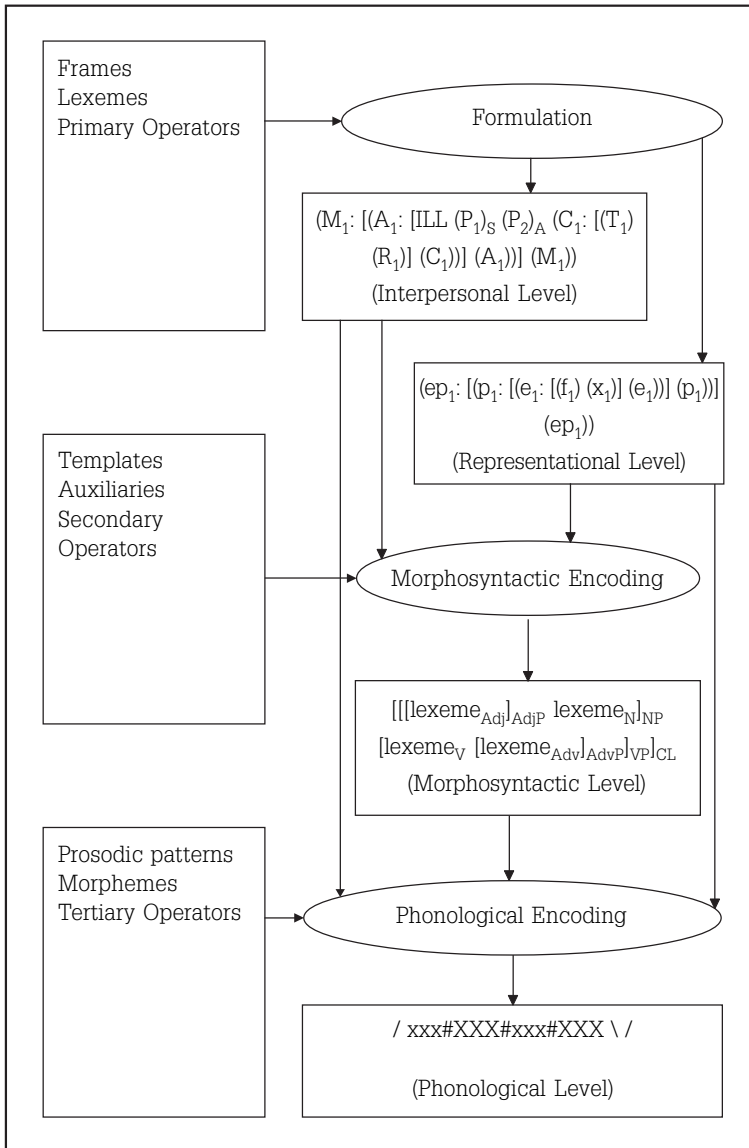


Figure 1 – Outline of FDG

An important property of the model is that the interpersonal, representational, and morphosyntactic levels of linguistic organization are built up using different sets of primitives. The interpersonal and representational levels of organization are structured on the basis of pragmatic and semantic frames, into which lexemes and primary operators (i.e. operators that are defined in terms of their meaning)

are inserted. The morphosyntactic level is organized in terms of structural templates, into which, apart from lexical material from the preceding levels, grammatical words and morphosyntactic secondary operators (i.e. operators anticipating bound grammatical expressions) are inserted. The phonological level is organized in terms of prosodic patterns, into which the lexical material from the preceding levels is inserted, together with bound morphemes and possibly tertiary operators (i.e. operators anticipating the acoustic expression of the utterance).

Finally, it is important to note that levels are related to each other through operations, represented in circles in Figure 1. There is a fundamental distinction between FORMULATION on the one hand, and ENCODING on the other. The process of formulation is concerned with specifying those pragmatic and semantic configurations that are encoded within the language. In terms of formulation, languages may differ in e.g. the kind of pragmatic and semantic functions that are relevant for a description of their grammatical system. The process of encoding is concerned with the morphosyntactic and phonological form pragmatic/semantic configurations take in the language. In terms of encoding, languages may differ in e.g. their word order, morphological types, phoneme inventory, etc.

### 3.2 Layering

Each level has a hierarchical organization consisting of several layers. Lower layers are contained within higher layers. Each layer at the interpersonal and representational level has the following internal structure, where  $\alpha$  ranges over all variables:

$$(3) (\pi \alpha_1: (\text{complex}) \text{head } (\alpha_1)_\phi: \sigma(\alpha_1))_\phi$$

A unit may be built up using lexical and grammatical means. The lexical means can be subdivided into obligatory heads and optional modifiers ( $\sigma$ ). The head is represented as the first restrictor, the modifier as a non-first restrictor. The grammatical means are subdivided into operators ( $\pi$ ) and functions ( $\phi$ ). Operators capture non-relational properties expressed through grammatical means, functions capture relational properties expressed through grammatical means.

The main semantic domains of operators and modifiers at the various layers of the interpersonal and representational levels are listed in Table 1 and illustrated with an example of a modifier.

Table 1 – Semantic domains of operators and modifiers

|                               |  |
|-------------------------------|--|
| <i>Interpersonal level</i>    |  |
| M                             | Communicative status of the move (e.g. <i>however</i> )  |
| A                             | Communicative status of the act (e.g. <i>in addition</i> ); Stylistic properties of the act (e.g. <i>briefly</i> ) |
| F                             | Illocutionary manner (e.g. <i>frankly</i> )  |
| C                             | Subjective attitude (e.g. <i>fortunately</i> ); Reportativity (e.g. <i>reportedly</i> )                            |
| <i>Representational level</i> |  |
| ep                            | Order of episodes (e.g. <i>first</i> )   |
| p                             | Propositional attitude; Evidence (e.g. <i>possibly, apparently</i> )   |
| e                             | Temporal orientation; Reality status; Location; Event quantification (e.g. <i>yesterday, hardly, here, twice</i> ) |
| f                             | Manner; Aspect; Participant-oriented modality (e.g. <i>beautifully, continuously, be able to</i> )                 |

By way of example, consider the interpersonal (5) and representational (6) formalization of example (4), adapted from Hengeveld and Wanders (Forthcoming):

(4) Reportedly a man was deliberately cutting himself with a knife yesterday.

(5)  $(A_i: [(F_i: \text{DECL } (F_i)) (P_i)_{IS} (P_i)_A (C_i: [(T_i) (R_i) (R_K)] (C_i): \text{reportedly}_{Adv} (C_i)]) (A_i))$

(6)  $(p_i: (\text{past } e_i: (\text{progr } f_i: [(f_i: \text{cut}_V (f_i): \text{deliberately}_{Adv} (f_i)) (1 \ x_i: \text{man}_N (x_i))_{Ag} (x_i)_{Pat}] (f_i): (1x_i: \text{knife}_N (x_i)_{Instr} (f_i)) (e_i): \text{yesterday}_{Adv} (e_i)) (p_i))$

The various lexical modifiers are represented at their respective layers: *reportedly* at the C-layer of the interpersonal level in (5), *deliberately* and *yesterday* at the  $f_i$ - and  $e_i$ -layer of the representational level in (6). The past progressive form of the verb is triggered by the combination of an aspectual and a temporal operator at the  $f_i$ - and  $e_i$ - layer in (6).

### 3.3 Complementation

Just as layers may be further specified by modifiers and operators, they may be turned into an argument of a complement-taking predicate. For a full discussion of complementation in FDG see Hengeveld and Mackenzie (Forthcoming, chapter 5-6).

Complement-taking verbs expressing the semantic domains listed in Table 1 for the INTERPERSONAL LEVEL, take arguments with decreasing internal complexity the lower the layer they embed. The layers distinguished at the interpersonal and representational levels that may potentially underlie a subordinate clause are listed in (7) and (8):

(7) Interpersonal layers underlying subordinate clauses

- a.  $(\Pi M_1: (\Pi A_1: [\dots (\Pi C_1: [(T_1) (R_1)] (C_1): \Sigma (C_1)]) (A_1): \Sigma (A_1)) (M_1): \Sigma (M_1))$
- b.  $(\Pi A_1: [\dots (\Pi C_1: [(T_1) (R_1)] (C_1): \Sigma (C_1)]) (A_1): \Sigma (A_1))$
- c.  $(\Pi C_1: [(T_1) (R_1)] (C_1): \Sigma (C_1))$

(8) Representational layers underlying subordinate clauses

- a.  $(\pi e_{p_1}/\pi p_1: (\pi e_1: (\pi f_1: [(f_2) (x_1)] (f_1): \sigma (f_1)) (e_1): \sigma (e_1)) (e_{p_1}/p_1): \sigma (e_{p_1}/p_1)$
- b.  $(\pi e_1: (\pi f_1: [(f_2) (x_1)] (f_1): \sigma (f_1)) (e_1): \sigma (e_1))$
- c.  $(\pi f_1: [(f_2) (x_1)] (f_1): \sigma (f_1))$

A higher layer generally contains all lower layers. As a result, subordinate constructions can be classified in terms of the highest layer they contain. Furthermore, since every layer brings along its own set of operators and modifiers, we can predict that operators and modifiers pertaining to the highest layer a subordinate clause contains, as well as all lower ones, can be expressed in that subordinate clause. Modifiers and operators pertaining to layers higher than the highest layer the subordinate clause contains, are barred from expression in that subordinate clause.

Consider the following examples and their underlying formalizations:

(9) I summarize that both acts, which you have mentioned, are important. The choice depends upon the individual. Since he is well aware of the circumstances, you should communicate to him your concerns and then let him decide what he may. Be thankful for whatever your father does since both acts will bring reward to you as well in the Hereafter.(move)

$(f_1: summarize_V (f_1))$

$(x_1)_\Phi$

$(M_1: [(A_1: [(F_1) (P_1)_S (P_2)_A (C_1: [\dots(T_1) (R_1)\dots] (C_1))] (A_1))]_\Phi,$

$(A_2: [(F_2) (P_1)_S (P_2)_A (C_2: [\dots(T_2) (R_2)\dots] (C_2))] (A_2))_\Phi, \dots ] (M_1))_\Phi$

(10) I might add that, frankly speaking, you're going to have bigger problems than just raising capital. (act)

$(f_1: add_V (f_1))$

$(x_1)_\Phi$

$(A_1: [ILL (P_1)_S (P_2)_A (C_1: [\dots(T_1) (R_1)\dots] (C_1))] (A_1))_\Phi$

(11) He said that reportedly there was some history of threats of domestic abuse in the family. (communicated content)

$(f_1: say_V (f_1))$

$(x_1)_\Phi$

$(C_1: [\dots(T_1) (R_1)\dots] (C_1))_\Phi$



The verb *summarize* in (9) introduces the summarizing move in an argumentative series. This move is represented as its argument  $M_1$  and consists of a series of acts. The verb *add* in (10) takes a single act  $A_1$  as its argument. And the verb *say* in (11) introduces the content  $C_1$  communicated in the original discourse act. Note that it is often hard to decide whether we are dealing with a move or with a discourse act acting as a complement, as is the case with modifiers operating at these levels.

Complement-taking verbs expressing the semantic domains listed in Table 1 for the REPRESENTATIONAL LEVEL, take arguments with decreasing internal complexity the lower the layer they embed. Consider the following examples and their underlying formalizations:

(12) It ends with that he breaks up with her, and she runs crying out in the hall. (episode)

$(f_1: \text{end}_V (f_{-1}))$

$(ep_1: [(p_1: (e_1: (f_2: [(f_3) \dots] (f_2)) (e_1)) (p_1)), (p_2: (e_2: (f_4: [(f_5) \dots] (f_4)) (e_2)) (p_2))] (ep_1))_\Phi$

(13) He believed that I had gone too far. (propositional content)

$(f_1: \text{believe}_V (f_1))$

$(x_1)_\Phi$

$(p_1: (e_1: (f_2: [(f_3) \dots] (f_2)) (e_1)) (p_1))_\Phi$

(14) He wanted me to be in charge. (state-of-affairs)

$(f_1: \text{want}_V (f_1))$

$(x_1)_\Phi$

$(e_1: (f_2: [(f_3) \dots] (f_2)) (e_1))_\Phi$

(15) He continued to cry. (property)

$(f_1: \text{continue} (f_1))$

$(x_1)_\Phi$

$(f_2: [(f_3) \dots] (f_2))_\Phi$

The verb *end\_with* in (12) introduces the final episode of a story, represented as its argument ( $ep_1$ ), which itself contains the description of two propositional contents; the verb *believe* in (13) expresses a propositional attitude, and thus takes a propositional complement ( $p_1$ ), which itself contains the description of a state-of-affairs; the verb *want* in (14) takes as its argument the event wanted, and thus takes as its complement the description of a state-of-affairs ( $e_1$ ), which itself contains the description of a property; and the verb *continue* in (15) describes the continued application of a property, and thus takes the minimal structure ( $f_1$ ) as its complement. Thus, since higher layers contain all lower layers, complement clauses may be classified in terms of the highest layer that their underlying

representation contains. At the same time, the presence of a higher layer predicts the presence of all lower ones.

## 4 Hypotheses

In comparison with Functional Grammar (FG), Functional Discourse Grammar (FDG) offers a number of additional layers within the underlying representation of (combinations of) utterances. Since in FG the layers available within the underlying representation of full utterances constitute the possible types of complement clauses (see e.g. HENGEVELD, 1989; DIK; HENGEVELD, 1991; GENEÉ, 1998) the question is to what extent the layers used in FDG can similarly be used to provide a more comprehensive classification of complement clauses. Taking into account that our focus here is particularly on the specifications referring to the modal meanings occurring in complement constructions at the representational level, it is of particular interest to us to see how the episodes (ep) and properties of states-of-affairs (f) behave in relation to states-of-affairs and propositional contents. The investigation of the hypothesis is restricted to complements of the representational level, since it is at this level that modal distinctions are most relevant and most diverse. With this restriction in mind, the hypothesis which we investigate may be summarized as:

Modal expressions in representational complement clauses only pertain to operator and modifier classes of the highest layer relevant for that type of embedded construction and of all lower levels.

The analyses thus refer to the complements of the specified subtypes containing one or more modal expressions in the form of modifiers and operators. With respect to the last ones, however, the verbal mood in the complement is not being considered as a modal operator, since its use may be imposed by the verbal mood of the matrix predicate rather than by the need to independently express a modal value. The only modal elements that represent operators in the selected data are modal verbs which function as auxiliary verbs, like *poder*, *dever*, *ter que*, *querer*.

## 5 Parameters of analysis

In order to verify the relationship between the kind of modal and the kind of complement, we use the following functional parameters in our analysis.

## 5.1 Semantic type of matrix predicate

The semantic classification of the matrix predicates (DIK, 1997) allows us to distinguish the semantic category of the complement, within which we observe the presence of modal operators and modifiers:

- (i) Propositional attitude predicates: “specify the [intellectual or emotional] attitude of a person in relation to the possible fact designated by the propositional complement” (DIK, 1997, p.107). The CTPs occurred in the corpus are the following: *achar* (to think), *parecer* (to seem), *pensar* (to think), *acreditar* (to believe), *crer* (to believe), *supor* (to suppose), *entender* (to understand), *admitir* (to admit), *ser evidente* (to be evident), *ser claro* (to be clear), *ter impressão* (to have the impression), *estar convencido* (to be convinced).
- (ii) Predicates of knowledge and acquisition/loss of knowledge: “designate the mental acquisition, possession, or loss of the fact designated by the propositional complement” (Dik, 1997, p.107). The only CTP occurred in the corpus is *saber* (to know).
- (iii) Predicates of mental perception: “designate ‘indirect perception’ of the fact designated by complement propositional term” (DIK, 1997, p.108). Examples of this kind of predicate are: *ver* (to see), *perceber* (to perceive), *descobrir* (to discover).
- (iv) Predicates of practical manipulation: “designate that X does something in order to get Y to do SoA, without an intervening speech act” (DIK, 1997, p.111): Examples of this kind of predicate are: *fazer* (to manage) and *levar* (to lead).
- (v) Phasal predicates: designate the development phase (beginning, middle or end) of the SoA described in the complement. In Dik’s terms, “predicates of this class too take a predicational complement describing a SoA that necessarily occurs simultaneously with the SoA described in the main clause” (DIK, 1997, p.113) Examples of this kind of predicate are: *começar* (to begin), *continuar* (to continue), *acabar* (to finish).

A full description of all these matrix predicate in Brazilian Portuguese can be found in Neves (2001, p. 31-53).

## 5.2 Semantic category of the complement

Within the representational level, different complements can be distinguished according to the semantic category of the matrix predicate (HENGEVELD; MACKENZIE, 2008, Forthcoming):

(i) ep-complement: episodes are combinations of clauses that represent a thematically coherent chunk of a narrative stretch, often with a series of events presented in chronological order and not involving any change of scene.

(16) Já as minhas [filhas] tinham um gato em casa... o gato é um bicho muito arisco... não é? ele tá sempre com aquela unhazinha querendo botar de fora quando a criança vai mexer... acabamos **tendo que desfazer do gato**... (D2/RJ/269: 4)

acaba-Ø-mos                    te-ndo                    que    desfaze-r            do    gato  
end-PAST.IND-1PL            have-PROG            that    get\_rid-INF            of the    cat

'Now [my daughters] had a cat at home... the cat is a very suspicious animal, isn't it? It always wants to put its nails out when a child comes to caress it ... in the end, we had to get rid of the cat ...'

(ii) p-complement: propositional contents are mental constructs that do not exist in space or time but rather exist in the mind of those entertaining them.

(17) eu acredito **que pode ser que... a população ribeirinha venha sofrer um pouco**... (DID REC 125)

Eu    acredit-Ø-o                    que    pode-Ø-Ø                    se-r            que:  
I    believe-PRES.IND-1SG    COMP    may-PRES.IND-3SG    be-INF    COMP

'I believe it may be that ... the marginal people will suffer a little ...'

(iii) e-complement: states-of-affairs are entities that develop in time and can be evaluated in terms of their reality status.

(18) e a indústria pesada...foi inclusive a que...fez com **que o Japão pudesse...ser uma potência industrial** (EF RJ 379)

e            a            indústria            pesada            foi    inclusive            a  
and        the        industry            heavy            was    in fact            the one

que        fez-Ø-Ø                    com    que            o            Japão  
that        make-PAST.PRF-3SG    with    COMP            the        Japan

pude-sse-Ø...                    ser                    uma    potência            industrial  
can-PAST.IPF.SBJV-3SG            be-INF            a        power            industrial

'And the heavy industry was the one that made that Japan could be an industrial power.'

(iv) f-complement: properties of states-of-affairs are situational concepts that can not be located in time and have no independent existence; rather, they define sets of states-of-affairs.

(19) S1: ah é ( ) quando eu começo um regime geralmente... começo por necessidade... porque quando eu tô muito gorda caio muito...

S2: é lógico...

S1: porque meus pés são relativamente pequenos pro meu corpo... mas depois já começa a vaidade... aí eu começo a **não querer engordar** (D2/RJ/269: 13)

eu começ-Ø-o a não quere-r engorda-r

I start-PRES.IND-1SG to not want-INF get fat-INF

"S1: when I begin a diet I usually begin it due to a necessity because when I am very fat I fall very frequently..."

S2: obviously...

S1: because my feet are a little small for my body... but after that vanity appears... then I start not wanting to get fat."

### 5.3 Modal category

In Portuguese, modality can be expressed by modal operators (auxiliary verbs *poder* (may/can), *dever* (should/must), *ter que* (have to) and *querer* (want)) and modifiers (adverbs like *realmente* (really) and *talvez* (maybe)). Modal operators are presented in (16) to (19) and modifiers are presented in (20) and (21):

(20) eu acho que **realmente** é uma fase assim inesquecível. (AC-082)

eu ach-o que realmente é uma

I think-PRES.IND.1SG COMP really be.PRES.IND.3SG a

fase inesquecível

period unforgettable

'I think that it is really an unforgettable period.'

(21) e acho que **talvez** tenha a ver com o lance do próprio mestrado. (D2 RE 340)

eu ach-o que talvez tenh-a-Ø

I think-PRES.IND.1SG COMP maybe have-PRES.SUBJV-3SG

a ve-r com o lance do próprio mestrado

to see-INF with the whole thing of the itself M.A. programme

'I think that maybe it has to do with the whole thing of the M.A. programme itself.'

### 5.4 Domain of modal evaluation

By the domain of evaluation (HENGEVELD, 2004b) of a modal distinction is meant the perspective from which the evaluation is executed. By varying this perspective the following types of modality may be distinguished:

(i) **Facultative modality** is concerned with intrinsic or acquired capacities.

(22) eu acho que ela **pode** competir e ser um profissional em qualquer tipo de profissão. (DID POA 08)

eu ach-o que ela pode-Ø competi-r  
I think-PRES.IND.1SG COMP she may-PRES.IND.3SG compete-INF  
e se-r um profissional em qualquer tipo de profissão  
and be-INF a professional in any kind of profession  
'I think she can compete and be a professional in any kind of profession.'

(ii) **Deontic modality** is concerned with what is (legally, socially, morally) permissible.

(23) os sindicatos também **devem** levar... adiante... toda e qualquer... reivindicação... dos seus... associados... (DID REC 131)

os sindicatos também deve-m leva-r... adiante...  
the unions also should-PRES.IND.3PL put-INF forward  
toda e qualquer... reivindicação... dos seus... associados...  
all and any claim of the its members  
'the unions should also put forward all its members' claims.'

(iii) **Volitive modality** is concerned with what is desirable.

(24) eu acho que a gente naturalmente **quer** ficar com as pessoas que...são ligadas pai mãe irmão e tudo sabe? (D2 REC 279)

eu ach-o que a\_gente naturalmente quer-Ø  
I think-PRES.IND.1SG COMP we naturally want-PRES.IND.3SG  
fica-r com as pessoas que são ligadas  
stay-INF with the people that be.PRES.IND.3PL close  
'I think we naturally want to stay with the people that are close father mother brother and all, you know?'

(iv) **Epistemic modality** is concerned with what is known about the actual world.

(25) ela ficou na sala de aula e o pessoal (...) desde o começo do ano pensou até que: **poderia** ser uma aluna transferida... (AC-088)

o pessoal (...) desde o começo do ano penso-Ø-u  
the people since the beginning of the year think-PAST.IND-3SG  
até que pode-ria-Ø se-r uma aluna transferida...  
even COMP might-FUT.COND-3SG be-INF a student transferred  
'she was in the classroom and the people, since the beginning of the year, thought even that she might be a transferred student.'

(v) **Evidential modality** is concerned with the source of the information contained in a sentence.

(26) a casa própria eu acredito que seria **evidentemente** uma medida de larga repercussão social (DID REC 131)

|               |       |         |    |                      |             |                 |
|---------------|-------|---------|----|----------------------|-------------|-----------------|
| a             | casa  | própria | eu | acredit-o            | que         | se-ria-Ø        |
| the           | house | own     | I  | believe-PRES.IND.1SG | COMP        | be-FUT.COND-3SG |
| evidentemente | uma   | medida  | de | larga                | repercussão | social          |
| evidently     | a     | measure | of | wide                 | impact      | social          |

'one's own house I believe would evidently be a measure of wide social impact.'

## 5.5 Target of modal evaluation

By the target of evaluation (HENGEVELD, 2004b) of a modal distinction is meant the part of the utterance that is modalized. Along this parameter the following types of modality can be distinguished:

(i) **Participant-oriented modality**. This type of modality affects the relational part of the utterance as expressed by a predicate and concerns the relation between (properties of) a participant in an event and the potential realization of that event.

(27) e tem certas coisas que eu acho que **nós** devíamos aguardar mais um pouquinho. (DID POA 6)

|      |                   |                     |           |                    |
|------|-------------------|---------------------|-----------|--------------------|
| e    | tem-Ø             | certas coisas que   | eu        | ach-o              |
| and  | have-PRES.IND.3SG | certain things that | I         | think-PRES.IND.1SG |
| que  | nós               | dev-ia-mos          | aguarda-r | mais um pouquinho  |
| COMP | we                | should-FUT.COND-1PL | wait-INF  | more a little bit  |

'and there are certain things for which I think we should wait a little bit more.'

(ii) **Event-oriented modality**. This type of modality affects the event description contained within the utterance, i.e the descriptive part of an utterance, and concerns the objective assessment of the actuality status of the event.

(28) eu acho que qualquer pessoa deve **saber [cozinhar]** não é pelo sentido prático, mas pelo prazer (D2 POA 37)

eu ach-o que qualquer pessoa deve-Ø  
 I think-PRES.IND.1SG COMP any person should-PRES.IND.3SG  
 sabe-r cozinha-r  
 know-INF cook-INF  
 'I think that every person should know [how to cook] not for the practical sense, but for the pleasure.'

(iii) **Proposition-oriented modality.** This type of modality affects the propositional content of an utterance, i.e. the part of the utterance representing the speaker's views and beliefs, and concerns the specification of the degree of commitment of the speaker towards the proposition he is presenting.

(29) nós temos aqui já duas máquinas éh: antigas (...) todas duas máquinas acho que:: devem **tá perto de cem anos já...** (DID REC 04)

todas duas máquinas ach-o que deve-Ø-m  
 all two machines think-PRES.IND.1SG COMP must-PRES.IND-3PL  
 (es)ta-(r) perto de cem anos já...  
 be-INF near of a hundred years already  
 'We have here two old machines (...) all of them I think they must already be near a hundred years old.'

According to our theoretical approach, the possible modalities within each kind of complement are the following:

Table 2 – Cross-classification of modality and complement types

| Modality \ Complement-type | ep | p | e | f |
|----------------------------|----|---|---|---|
| Proposition-oriented       | +  | + | - | - |
| Event oriented             | +  | + | + | - |
| Participant-oriented       | +  | + | + | + |

## 6 Analysis and results

In the analyzed corpus, we found complements containing modal elements of all complement types discussed earlier. The distribution of the 163 occurrences of representational complements can be seen in Table 3:



Table 3 – Types of representational complements with modal expression

| COMPLEMENT-TYPE       | N   | %   |
|-----------------------|-----|-----|
| <i>ep</i> -complement | 3   | 2   |
| <i>p</i> -complement  | 156 | 96  |
| <i>e</i> -complement  | 2   | 2   |
| <i>f</i> -complement  | 2   | 2   |
| TOTAL                 | 163 | 100 |

The quantitative analysis of these occurrences shows a high frequency of *p*-complements and a much lower frequency of *ep*-, *e*- and *f*-complements. Within all these complements the most frequent modal operators are the auxiliaries *poder* (may), *dever* (must) and *ter que* (have to), codifying the deontic domain of evaluation, whose target is an event. The number of occurrences of modal element in each kind of complement is presented in Table 4:

Table 4 – Occurrences of modal element and type of complement

| Modality \ Complement-type | Complement-type |          |          |          | Total |
|----------------------------|-----------------|----------|----------|----------|-------|
|                            | <i>ep</i>       | <i>p</i> | <i>e</i> | <i>f</i> |       |
| Proposition-oriented       | 0               | 40       | 0        | 0        | 40    |
| Event oriented             | 0               | 87       | 2        | 0        | 89    |
| Participant-oriented       | 3               | 29       | 0        | 2        | 34    |
| TOTAL                      | 3               | 156      | 2        | 2        | 163   |

The only two occurrences of *f*-complement with modal are (19), repeated here for convenience, and (30):

(19) S1: ah é ( ) quando eu começo um regime geralmente... começo por necessidade... porque quando eu tô muito gorda caio muito...

S2: é lógico...

S1: porque meus pés são relativamente pequenos pro meu corpo... mas depois já começa a vaidade... aí eu começo a **não querer engordar** porque (aí a vaidade é que está falando né?) (D2 RJ 269)

eu começo a não quere-r engorda-r  
 I start-PRES.IND.1SG to not want-INF get fat-INF

**'S1: when I begin a diet I usually begin it due to a necessity because when I am very fat I fall very frequently...**

S2: it is obvious...

S1: because my feet are a little small for my body... but after that vanity appears ... then I start not wanting to get fat.'

- (30) então a arte SURge (...) em função da necessidade de eu assegurar a caça e continuar **podendo comer e me manter vivo** (EF SP 405)

|         |            |        |                    |       |               |              |             |
|---------|------------|--------|--------------------|-------|---------------|--------------|-------------|
| então   | a          | arte   | SURge—Ø            | em    | função        | da           | necessidade |
| then    | the        | art    | arise-PRES.IND-3SG | in    | function      | of the       | necessity   |
| de eu   | assegura-r | a      | caça               | e     | continua-r    | pod-endo     |             |
| of I    | secure-INF | the    | hunting            | and   | continue- INF | be able-PROG |             |
| come-r  | e          | me     | mante-r            | vivo  |               |              |             |
| eat-INF | and        | myself | keep-INF           | alive |               |              |             |

'Then the art arises (...) due to the necessity to secure the hunting and continue to be able to eat and keeping myself alive.'

In (19), the property of 'having a start' is assigned to the complement embedded in 'começar' and in (30) the property of 'to be continued' is assigned to the complement embedded in 'continuar'. Both complements contain a participant-oriented modal element, as allowed by our prediction.

The two tokens of **e-complements** containing a modal element found in the corpus are restricted to practical manipulation predicates, represented by 'fazer' (31) and 'levar' (32). The modal operator of the *e*-complement codifies in both cases facultative event-oriented modality using the verb 'poder', expressing the conditions that enable its occurrence. This is again in conformity with our predictions.

- (31) e a indústria pesada foi inclusive a que fez com **que o Japão pudesse ser uma potência industrial** (EF RJ 379)

|                    |     |           |            |     |           |                       |      |
|--------------------|-----|-----------|------------|-----|-----------|-----------------------|------|
| e                  | a   | indústria | pesada     | foi | inclusive | a                     | que  |
| and                | the | industry  | heavy      | was | in fact   | the one               | that |
| fez-Ø              |     | com       | que        | o   | Japão     | pude-sse-Ø            |      |
| make- PAST.PRF.3SG |     | with      | COMP       | the | Japan     | can-PAST.IPF.SBJV-3SG |      |
| ser                | uma | potência  | industrial |     |           |                       |      |
| be-INF             | an  | power     | industrial |     |           |                       |      |

'And the heavy industry was the one that made that Japan could be an industrial power.'

- (32) então isso leva com **que nós... possamos compreender qual seria a visão de mundo implicada naquela vivência daquele sujeito** (EF REC 339)

|                |         |                    |         |         |                   |                       |       |
|----------------|---------|--------------------|---------|---------|-------------------|-----------------------|-------|
| então          | isso    | leva-Ø             | com     | que     | nós... poss-a-mos |                       |       |
| then           | this    | lead-PRES.IND.3SG  | with    | COMP    | we                | be able-PRES.SBJV-1PL |       |
| compreende-r   | qual    | se-ria-Ø           |         | a       | visão             | de                    | mundo |
| understand-INF | what    | be-FUT.COND-3SG    |         | the     | view              | of                    | world |
| implicada      | naquela | vivência           | daquele | sujeito |                   |                       |       |
| implied        | in that | experience of life | of that | person  |                   |                       |       |

'Then, this leads us... to be able to understand what would be the world view implied in that person's experience of life.'

The **p-complements** occur with three types of matrix predicate: propositional attitude (33), knowledge (34) and mental perception (35) predicates:

- (33) acho **que os padres seriam mais...talvez mais humanos até**, se eles conhecessem todos esses problemas que nós conhecemos (DID POA 6)

|                    |      |         |      |         |                 |      |
|--------------------|------|---------|------|---------|-----------------|------|
| ach-o              |      | que     | os   | padres  | se-ria-m        | mais |
| think-PRES.IND-1SG |      | COMP    | the  | priests | be-FUT.COND-3PL | more |
| talvez             | mais | humanos | até  |         |                 |      |
| maybe              | more | human   | even |         |                 |      |

'I think that the priests would be more ... maybe even more human if they knew all of these problems we know.'

- (34) sabemos também **que... os sindicatos também devem levar... adiante... toda e qualquer reivindicação... dos seus associados...** (DID REC 131)

|      |            |          |                   |         |                 |
|------|------------|----------|-------------------|---------|-----------------|
| os   | sindicatos | também   | deve-Ø-m          | leva-r  | adiante         |
| the  | unions     | also     | must-PRES.IND-3PL | put-INF | forward         |
| toda | e          | qualquer | reivindicação...  | dos     | seus associados |
| all  | and        | any      | complaints        | of the  | its members     |

'We know also that... the unions must solve... any complaints... from its members.'

- (35) então você vê **que eu: não posso falar nunca em construção** (DID REC 04)

|    |     |                  |           |       |       |            |
|----|-----|------------------|-----------|-------|-------|------------|
| eu | não | poss-o.          | fala-r    | nunca | em    | construção |
| I  | not | can-PRES.IND-1SG | speak-INF | never | about | building   |

'So you see that I can never speak about building.'

Within the p-complements, the modifiers (e.g. 'talvez') codify, in most of cases, epistemic proposition-oriented modality (33), expressing the speaker subjective attitude in relation to a propositional content, and the modal operators (e.g. 'dever' and 'poder') codify deontic event (34) or participant (35) oriented modality.

Among the three types of matrix predicate found in the corpus, the one with the highest frequency is the class of propositional attitude predicates, with high token frequency of the verb 'achar' (to think), the preferred form to codify epistemic proposition-oriented modality in PB, as has been attested previously in other corpus-based research (GONÇALVES, 2003).

An interesting result of our analyses is related to the predicate 'acabar', as observed in (36) to (38), which in these uses embeds an **ep-complement**.

- (36) aquilo se toma tão chato que a criança desiste... não pa/ acaba **não podendo nem ver**  
(D2 SP 360)

|          |          |                      |  |                   |     |
|----------|----------|----------------------|--|-------------------|-----|
| a        | criança  | desiste-Ø            |  | acaba-Ø           | não |
| the      | child    | give_up-PRES.IND.3SG |  | end- PRES.IND.3SG | not |
| pode-ndo | nem      | ve-r                 |  |                   |     |
| can-PROG | not even | see-INF              |  |                   |     |

'That becomes so boring that the child gives up... in the end she can't even see it.'

- (37) já as minhas [filhas] tinham um gato em casa... o gato é um bicho muito arisco... não é? ele tá sempre com aquela unhazinha querendo botar de fora quando a criança vai mexer... acabamos **tendo que desfazer do gato** (D2/RJ/269)

|                  |           |      |             |        |      |
|------------------|-----------|------|-------------|--------|------|
| acaba-Ø-mos      | te-ndo    | que  | desfaze-r   | do     | gato |
| end-PAST.IND-1PL | have-PROG | that | get rid-INF | of the | cat  |

'Now [my daughters] had a cat at home... the cat is a very suspicious animal, isn't it? It always wants to put its nails out when a child comes to caress it... in the end, we had to get rid of the cat.'

- (38) Porque se ele pede muito pouco... depois vai acabar **tendo que pagar**... então... não... desconta cinquenta por cento...

|                      |         |           |      |           |
|----------------------|---------|-----------|------|-----------|
| vai-Ø                | acaba-r | te-ndo    | que  | paga-r... |
| AUX.FUT-PRES.IND.3SG | end-INF | have-PROG | CONJ | pay-INF   |

'For if he asks too little ... afterwards he will end up having to pay ... then ... it does not... discounts fifty percent ...'

In all these occurrences, the predicate 'acabar' introduces a final episode, constituted by a single event, related to the previous episode (constituted by a series of events), with which the final episode maintains the thematic unity.

Note that, although the predicate 'acabar' retains its meaning of 'to reach an end', what is ended in these examples is the series of events introduced by the speaker and not the single event embedded in the predicate, as would be the case in examples like:

- (39) João      acabo-Ø-u                      de    lava-r                      o      carro.  
João      finish-PAST.IND-3SG      of    wash-INF                      the    car

'João finished washing the car.'

Note that the modals encountered in this type of complement are all participant-oriented, but apparently this is not the only possibility, as illustrated by the following example encountered on the Internet:

(40) Em termos jornalísticos, ao interpretamos a matéria em questão, ficamos com a idéia de tratar-se de uma notícia tendencialmente informativa, porém muito comum, fria, e também bastante formal. Comum, pela evolução clássica da narrativa em formato lide, desenvolvida a partir da chamada do apresentador. Formal, pela ausência de elementos literários mais expressivos e conotativos, de maiores figuras de linguagem, impressões ideológicas, e também de elementos dramáticos – como já foi lembrado acima. E fria, ou atemporal, pela falta de factualidade da própria notícia, que **acaba não podendo** ser totalmente justificada – não estando pautada nem por um acontecimento “de momento”, nem tão pouco pela sua relevância informativa. A reportagem parece muito pouco ou quase nada nos acrescentar em termos de novidade sobre o assunto.

|            |              |                  |     |          |        |
|------------|--------------|------------------|-----|----------|--------|
| a notícia  | fria         | acaba-Ø          | não | pode-ndo | se-r   |
| the news   | cold         | end-PRES.IND-3SG | not | can-PROG | be-INF |
| totalmente | justificada. |                  |     |          |        |
| totally    | justified.   |                  |     |          |        |

‘In journalistic terms, when we interpret the subject in discussion, we think it is a tendentially informative piece of news, but a very ordinary, cold, and also a very formal one. Ordinary due to the classical evolution of the narrative in form of lead, developed from the presenter’s announcement. Formal due to the absence of more expressive and connotative literary elements, of greater figures of speech, ideological impressions, and also of dramatic elements – as it was said above. And cold, or timeless, due to the lack of factuality of the piece of news itself, which, at the end, can not be totally justified – being supported neither by a happening ‘of the moment’, nor by its informative relevance. The report seems to inform us very little or almost nothing in terms of the newness on the subject.’

In this example the verb *poder* is used as an event-oriented epistemic modal.

In all, then, we may conclude that our hypothesis is confirmed: there are no examples of complement types containing modal elements that pertain to a layer higher than the one defining the semantic type of the complement within FDG. Although the number of examples found for all but the propositional complements is low, the results coincide with native speaker intuitions about the combinability of certain complement types with certain modal categories. Our results furthermore confirm the applicability of the representational units Episode and Property of State of Affairs proposed in FDG.

## 7 Expanding the analysis: more on ‘phasal’ predicates

In the above we have come across two different uses of phasal predicates: one in which it embeds an f-complement and one in which it embeds an ep-complement. But there is another use of phasal predicates that cannot be interpreted as either of these two. This use is found with the predicate ‘começar’ (to begin) embedding a finite complement.

In the following example, two persons, S1 and S2, are talking about jobs. S2 says that, when a company needs a new employee, it uses the ‘head hunter’ services. The interviewer, then, asks for the translation of the term ‘head hunter’:

(41) Doc. Qual seria a tradução direta desse ‘headhunter’?

S2: éh, éh... seria um contato direto... é e/ eles telefonam... falam... com a pessoa... através de uma mensagem... que que de modo nenhum pode ser identificada porque que **começa que 1**. [a pessoa *pode* estar muitíssimo bem no lugar que está e de maneira nenhuma pensando em sair] **2**. ... então... [o telefonema de alguém ah... intermediário de um concorrente pode complicar a situação da pessoa naquela empresa...]

S1: (certo)

S2: não é verdade? então **3**. [eles têm que telefonar... de um modo que não seja... de jeito nenhum seja seja identificado para que que é... e conversar com a pessoa diretamente...]  
(D2 SP 360)

|                    |         |            |        |                  |                 |     |
|--------------------|---------|------------|--------|------------------|-----------------|-----|
| começa-Ø           | que     | a          | pessoa | pode-Ø           | estar           |     |
| start-PRES.IND.3SG | COMP    | the        | person | can-PRES.IND-3SG | be-INF          |     |
| muitíssimo         | bem     | no         | lugar  | que              | está-Ø          | e   |
| very               | well    | in the     | place  | that             | be-PRES.IND-3SG | and |
| de maneira         | nenhuma | pensa-ndo  |        | em sai-r         |                 |     |
| of way             | any     | think-PROG |        | in leave-INF     |                 |     |

‘Doc. What would be the translation for ‘headhunter’?

S2: it would be a direct contact... they call... talk to the person... through a message... that can not be identified because **it starts that 1**. [the person can be very well in the place s/he is working and is not thinking about leaving there] **2**. ... then... [the call from someone, a intermediary from a concurrent company, can complicate the person’s situation in that company...]

S1: (right)

S2: isn’t it true? then **3**. [they have to call, in a way they can not be identified, to talk directly to the person]’

In (41), S1 explains the way in which a competing company would approach a manager from another company that they consider hiring. After saying that it is important that the headhunter cannot be identified in any way when he is making contact with the potential candidate, S1 presents a series of arguments which justify this need for secrecy. The first and most important of these arguments is introduced as the complement of the predicate ‘começar’ (to begin), which can therefore be considered to take an A-complement. This Act is only one of the several Acts which integrate the major Move, which corresponds to S1’s answer to the interviewer’s question: ‘What would be the translation for ‘head hunter’?’ The verb *começar* can in this use thus be considered to be the complement-taking alternative to adverbial modifiers such as ‘firstly’ and ‘in the first place’.

When this type of predicate is analyzed as an interpersonal one, it is easy to understand why ‘começar’ is used in an impersonal construction, with

neutralization of person and tense marking in favor of an unmarked form, e.g., third person present tense, indicative mood.

We summarize the different kinds of complements of verbs like ‘começar’, ‘acabar’ and ‘continuar’ in the following Table:

Table 5 – Behaviour of the predicates ‘começar’ (to start), ‘continuar’ (to continue) and ‘acabar’ (to end)

| Type of complement | Structure of the complex construction  | Function of predicate   | Example  |
|--------------------|--|---|--|
| f-complement       | X começar a + non-finite complement (infinitive)<br>X acabar de + non-finite complement (infinitive or gerund)<br><br>X continuar (a) + non-finite complement (infinitive or gerund) | To indicate that the <b>property</b> of ‘to have a beginning’, ‘to have an end’ and ‘to have continuity’ applies to the event embedded in the predicate               | Começou a fazer a tarefa.<br>‘He began to do the homework.’<br><br>Acabou de fazer a tarefa<br>‘He finished doing the homework.’<br><br>Continuou a fazer a tarefa.<br>Continuou fazendo a tarefa.<br>‘He continued doing the homework.’   |
| ep-complement      | X começar<br><br>+ non-finite complement (gerund only)<br><br>X acabar   | To indicate that, from a series of real or presupposed <b>events</b> , the event(s) expressed in the embedded complement is/are the one(s) which begin(s), finish(es) | Começou jogando no São Paulo, depois foi para o Corinthians e agora joga no Barcelona. ‘He started playing soccer in São Paulo, after that he went to Corinthians and now he plays in Barcelona.’<br><br>Acabamos tendo que desfazer do gato, jogar a casinha dele fora e comprar um cachorro. ‘In the end, we had to get rid of the cat, throw its little house out and buy a dog.’ |
| A-complement       | Começar que<br><br>+ finite complement<br><br>Acabar que   | To indicate that, from a series of <b>arguments</b> , the one expressed in the complement begins or ends the argumentation  | Começa que eu nem gosto de criança. Eu jamais poderia ter filhos. ‘For a start, I do not even like kids. I would never have children.’<br><br>João está sempre distraído durante as aulas. Acaba que seu desempenho é péssimo. ‘John is always distracted during the classes. It ends that his performance is pretty bad.’   |

## 8 Conclusion

Taking into account the unities of analysis proposed by the FDG, the hypothesis of this study is confirmed, since there were not occurrences of complement types containing modal elements that pertain to a layer higher than the one defining the semantic type of the complement within FDG. Besides, the behavior of the verbs *começar* and *acabar* demonstrates the relevance of the distinctions between the unities proposed by the FDG for the treatment of complement clauses.

BASTOS, S. D. G. et al. A expressão da modalidade em orações completivas do nível representacional no português brasileiro. *Alfa*, São Paulo, v.51, n.2, p.189-212, 2007

- RESUMO: Este trabalho trata da (im)possibilidade de expressão de um conjunto de categorias modais em orações completivas com base na abordagem em níveis do complemento prevista na Gramática Discursivo-Funcional (GDF). Nossa hipótese é a de que as expressões modais nas orações completivas pertencem apenas a classes de operadores ou modificadores do mais alto nível relevante para aquele tipo de construção encaixada e para todos os níveis mais baixos. Para testar essa hipótese, foram analisadas ocorrências de orações completivas em dois bancos de dados do português falado no Brasil. A investigação dessas hipóteses restringe-se às orações completivas do nível representacional.
- PALAVRAS-CHAVE: Orações completivas; nível representacional; modalidade; operadores; modificadores.

## References

DIK, S. C. *The theory of Functional Grammar. Part II: complex and derived constructions*. Berlin: Mouton de Gruyter, 1997.

\_\_\_\_\_; HENGEVELD, K. The hierarchical structure of the clause and the typology of perception verb complements. *Linguistics*, v.29, n.2, p.231-259, 1991.

GENEE, I. *Sentential complementation in a functional grammar of Irish*. Utrecht: LOT, 1998.

GONÇALVES, S. C. L. Gramaticalização, modalidade epistêmica e evidencialidade. 2003. 250 f. Tese (Doutorado em Linguística) – Instituto de Estudos da Linguagem, Universidade Estadual de Campinas, Campinas, 2003.

HENGEVELD, K. Layers and operators in Functional Grammar. *Journal of Linguistics*. v.25, n.1, p.127-157, 1989.



\_\_\_\_\_. The architecture of a Functional Discourse Grammar. In : MACKENZIE, J. L.; GÓMEZ-GONZÁLEZ, M. Á. (Ed.). *A new architecture for Functional Grammar*. Berlin: Mouton de Gruyter, 2004a. p.1-21.

\_\_\_\_\_. Mood and modality. In: BOOIJ, G.; LEHMANN, C.; MUGDAN, J. (Ed.). *Morphology: a handbook on inflection and word formation*. Berlin: Mouton de Gruyter, 2004b. p.1190-1202.

HENGEVELD, K., MACKENZIE, J. L. Functional Discourse Grammar. In: BROWN, K. (Ed.). *Encyclopedia of language and linguistics*. 2<sup>nd</sup> ed. Amsterdam: Elsevier, 2006. p.668-676.

\_\_\_\_\_. *Functional Discourse Grammar*. Oxford: Oxford University Press, 2008. Forthcoming.

NEVES, M. H. M. N. *Gramática de usos do português*. São Paulo: Editora UNESP, 2001.

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