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Abstract	In this work we consider the distribution of complementizers in Modern Eastern Armenian. There are two complementizers: *wor* and *t'e.* They both introduce complement clauses, but *t'e* also expresses a dubitative value, implying that the speaker has doubts on the content following the complementizer. Moreover, *t'e*, when embedded under verbs of saying, shifts the anchoring of indexicals, moving the anchor from the speaker – better called *utterer* – to the subject of the saying predicate. On the basis of this and further evidence coming from the analysis of sequence of tense and *if*-clauses, we will argue that the position of *t'e* in the left periphery of the clause occupies a high position in the syntactic hierarchy. The aim of this work is on one hand, a better understanding of indirect reports and their syntax and, on the other, a more precise characterization of indexicals across languages.

Keywords (separated by "-")	Complementizers - dubitative - first person - indirect discourse - Modern Eastern Armenian - context shifting

Indirect reports in Modern Eastern Armenian

Alessandra Giorgi and Sona Haroutyunian

Abstract In this work we consider the distribution of complementizers in Modern Eastern Armenian. There are two complementizers: *wor* and *t'e.* They both introduce complement clauses, but *t'e* also expresses a dubitative value, implying that the speaker has doubts on the content following the complementizer. Moreover, *t'e*, when embedded under verbs of saying, shifts the anchoring of indexicals, moving the anchor from the speaker – better called *utterer* – to the subject of the saying predicate. On the basis of this and further evidence coming from the analysis of sequence of tense and *if*-clauses, we will argue that the position of *t'e* in the left periphery of the clause occupies a high position in the syntactic hierarchy. The aim of this work is on one hand, a better understanding of indirect reports and their syntax and, on the other, a more precise characterization of indexicals across languages.

Keywords Complementizers · dubitative · first person · indirect discourse · Modern Eastern Armenian · context shifting

1 Introduction

In this chapter we analyze the properties of complement clauses of *saying* verbs in Modern Eastern Armenian – henceforth MEA. We devote special attention to the distribution of indexical elements, such as the (non-imperfect) tenses of the

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indicative – present, past and future – the personal pronouns – *I*, *you*, etc. – and temporal and spatial adverbs – *yesterday, tomorrow* etc. and *here, in this room* etc. [1]

In MEA there are two complementizers: *wor* and *t'e*.[2] *Wor* introduces both indicative and subjunctive clauses, whereas *t'e* can only introduce indicative ones. We argue, also on the basis of evidence provided by *if-clauses*, that *t'e* occupies a hierarchically higher position in the structure than *wor*. We will show that the complementizer *t'e* triggers special interpretations: it can either contribute in expressing a dubitative value, or, when embedded under *say*, introduce a (quasi) direct discourse, replacing the speaker's coordinates with the upper subject ones.

Following Giorgi (2010, 2016), we develop the hypothesis that the higher complementizer *t'e*, is a context-shifter, giving rise to the expected pattern concerning the distribution of indexicals.

This chapter is organized as follows: in sections 2 and 3 we present the data concerning embedded clauses, in section 4, we discuss a theoretical account for these observations and provide a brief comparison with Hindi, which exhibits similar phenomena. In section 5 we draw some conclusions and suggestions for future work.

2 The Data: Embedded Complement Clauses Introduced by the Complementizer *wor* (that)

In the following discussion we analyze the distribution and interpretation of the embedded verbal forms in MEA. Consider the following examples:[3]

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[1]The two authors have elaborated every part of this research together. However, as far as legal requirements are concerned, Alessandra Giorgi takes official responsibility for sections 3.2, 4 and 5. Sona Haroutyunian for sections 1, 2 and 3.1. Modern Eastern Armenian is the official language of the Republic of Armenia and Nogorno Karabakh. Western Armenian is the language spoken by the Armenian diaspora around the world. In this work we will consider data from MEA. However, with respect to the phenomena discussed here, Western Armenian does not seem to differ in a considerable way.

[2]For the transliteration of the Armenian examples we adopt the system based on the works of the linguists Heinrich Hübschmann and Antoine Meillet as referenced in A. Meillet (1913:8–9). However, in order to be closer to MEA pronunciation, the complementizer is transliterated as *wor* (instead of *or*).

[3]In previous work – cf. Giorgi and Haroutyunian (2014, 2016) – we analyzed the verbal system and the position of the auxiliary. We argued that MEA is a Verb Second (V2) language, where V2 order is triggered by a left peripheral focus. We will not consider this issue in this work, because it is not immediately relevant to this topic. In the examples we will mostly use sentences exhibiting the basic word order, namely Subject-object-participle-auxiliary. Moreover, in MEA the verbal forms of the indicative, with the exception of the aorist, are periphrastic, present tense included, and are constituted by an invariable participle and auxiliary *be*. There are eight different participles. For a description of the participles, see Haroutyunian (2011, ch.1) Dum-Tragut (2009, pp. 201–214). On Armenian word order, see also Tamrazian (1991) and (1994). To help the non-native reader to go through the examples, we will write the complementizer in bold characters.

Indirect reports in Modern Eastern Armenian

(1) Ara-n as-um ē **wor** Anna-n ut-um ē
     Ara-ART say-PRS.PTCP AUX.3SG that Anna-ART eat-PRS.PTCP AUX.3SG   43
     'Ara says that Anna is eating'

(2) Ara-n as-um ē **wor** Anna-n ker-el ē
     Ara-ART say-PRS.PTCP AUX.3SG that Anna-ART eat-PST.PTCP AUX.3SG   44
     'Ara says that Anna has eaten'

In sentences (1) and (2) there is a main verb of saying in the present tense, followed   45
by an embedded present – in (1) – and an embedded past in (2).[4]   46
    So far, the temporal interpretation is the same as in English, namely, in (1)   47
the saying and the eating are simultaneous, whereas in (2) the eating precedes the   48
saying. The complementizer introducing these clauses is *wor* (that).   49
    The same holds in sentences (3) and (4):[5]   50

(3) Ara-n as-ac' **wor** Anna-n ut-um ē
     Ara-ART say-AOR.3SG that Anna-ART eat-PRS.PTCP AUX.3SG   51
     'Ara said that Anna was eating'

(4) Ara-n as-ac'   **wor** Anna-n ker-el ē
     Ara-ART say-AOR.3SG that Anna-ART eat-PRF.PTCP AUX.3SG   52
     'Ara said that Anna had eaten'

In sentence (3) the main verb has the aorist morphology, expressing a past value.   53
The eating is simultaneous with the saying, whereas in (4) it precedes it.[6]   54
    Note however, that in example (3) the embedded verbal form is the same as   55
in example (1), hence it can be literally translated as *is eating*. In English, or in   56

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[4]Irrelevantly to the present discussion, the present and past value of the embedded verbal form is due to the different participle used.

[5]Note that the present tense in MEA is a continuous verbal form, even with eventive predicates, like the Italian one and contrary to English. Consider the following examples:

(i) Hakob-n ut-um ē
     Hakob-ART eat-PRS.PTCP AUX.3SG
     'Hakob is eating'

Analogously, in Italian:

(i) Gianni mangia
     Gianni eat.3SG
     'Gianni is eating'

Hence, a simultaneous interpretation of the embedded verbal form is possible in MEA even with predicates such as *to eat*. Moreover, as in English, both in MEA and in Italian the present tense can also be interpreted habitually.

[6]The embedded verbal form in example (4) is constituted by a perfect participle and a present tense auxiliary. Hence, the literal translation would be *has eaten*, even if the interpretive value is just past. These issues will be more deeply investigated in further work

Italian, a sentence such as *John said that Anna is eating* would have a Double Access ⁵⁷
Reading – henceforth, DAR – meaning that the eating takes place both at the time ⁵⁸
of the saying and utterance time. However, in Armenian this is not the case, in that ⁵⁹
the eating does not have to be going on at the time of the utterance as well. MEA in ⁶⁰
fact is not a Double Access Reading language. We will discuss this issue with more ⁶¹
details in section 4.1 below.[7] ⁶²

In sentence (3) and (4), an embedded indicative imperfect could substitute for the ⁶³
other forms of the indicative, as in the following examples:[8] ⁶⁴

(5) Ara-n as-ac' **wor** Anna-n ut-um ēr
Ara-ART say-AOR.3SG that Anna-ART eat-PRS.PTCP AUX.IMP.3SG ⁶⁵
'Ara said that Anna was eating'

(6) Ara-n as-ac' **wor** Anna-n ker-el ēr
Ara-ART say-AOR.3SG that Anna-ART eat-PRF.PTCP AUX.IMP.3SG ⁶⁶
'Ara said that Anna had eaten'

The presence of the imperfect, however, does not significantly change the temporal ⁶⁷
interpretation and therefore these examples are not especially relevant to the ⁶⁸
discussion in this section. We will briefly consider them again in section 4.1. ⁶⁹

The sentences given above are all simple assertions, reporting what *Ara* said. The ⁷⁰
interpretation of indexical adverbs is provided by the temporal and spatial location ⁷¹
of the speaker uttering the sentence (which from now on, for reasons that will be ⁷²
clear in a little while we will call the *utterer*): ⁷³

(7) Ara-n as-ac' **wor** Anna-n yerek das-er-ə sovor-el ē
Ara-ART say-AOR.3SG that Anna-ART yesterday lesson-PL-ART learn-
PRF.PTCP AUX.3SG ⁷⁴
'Ara said that Anna yesterday learned her lessons'

(8) Ara-n as-ac' **wor** Anna-n das-er-ə sovor-el ē ays senyak-um
Ara-ART say-AOR.3SG that Anna-ART lesson-PL-ART learn-PRF.PTCP
AUX.3SG this classroom-LOC ⁷⁵
'Ara said that Anna learned her lessons in this classroom'

Yesterday and *in this classroom* are interpreted with respect to the utterer's temporal ⁷⁶
and spatial location, i.e. *yesterday* is the day before the one of the utterance ⁷⁷
and *in this classroom* refers to the classroom where the utterer is located. These ⁷⁸
observations will be relevant for the discussion in sections 3 and 4 below. ⁷⁹

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[7]In these contexts, Armenian normative grammars tend to prescribe the imperfect. Speakers however, do not seem to have a preference in this direction.

[8]In examples (5) and (6), the participle is the perfective one and the auxiliary appears in the imperfect morphology.

Consider now *to hope* – irrelevantly, in Armenian it is expressed by means of the locution *to have hope*. This predicate can either select for a subordinate indicative or a subordinate subjunctive:[9]

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82

(9) Ara-n huys un-i   **wor** Anna-n mrcʻuytʻ-ə haɫtʻ-elu ē
Ara-ART hope have-3SG that Anna-ART competition-ART win-FUT.PTCP
AUX.3SG
'Ara hopes that Anna wins the competition'

83

84

(10) Ara-n huys un-i   **wor** Anna-n mrcʻuytʻ-ə haɫtʻ-el ē
Ara-ART hope have-3SG that Anna-ART competition-ART win-PRF.PTCP
AUX.3SG
'Ara hopes that Anna won the competition'

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In examples (9) and (10), the embedded verbal form is an indicative, and the main verb *hope* is a present one. The following ones are identical, with the only difference that the main verbal form is a past one:

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88
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(11) Ara-n huys un-er   **wor** Anna-n mrcʻuytʻ-ə haɫtʻ-elu ē
Ara-ART hope have-IMP.3SG that Anna-ART competition-ART win-
FUT.PTCP AUX.3SG
'Ara hoped that Anna wins the competition'

90

91

(12) Ara-n huys un-er   **wor** Anna-n mrcʻuytʻ-ə haɫtʻ-el ēr
Ara-ART hope have-IMP.3SG that Anna-ART competition-ART win-
PRF.PTCP AUX.PST.3SG
'Ara hoped that Anna won the competition'

92

The following examples, instead, exhibit an embedded subjunctive. In (13) the main verb is a present verbal form, whereas in (14) it is a past one:

93
94

(13) Ara-n huys un-i   **wor** Anna-n mrcʻuytʻ-ə haɫtʻ-i
Ara-ART hope have-3SG that Anna-ART competition-ART win-SBJV.3SG
'Ara hopes that Anna wins the competition'

95

96

(14) Ara-n huys un-er   **wor** Anna-n mrcʻuytʻ-ə haɫtʻ-er
Ara-ART hope have-IMP.3SG that Anna-ART competition-ART win-
SBJV.PST.3SG
'Ara hoped Anna to win the competition'

97

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[9]The difference between indicative and subjunctive in this case is the utterer's commitment with respect to the embedded content. The utterer is more committed when there is an indicative, and less with a subjunctive. The implications of these judgments are not entirely clear and we will disregard this issue in this work. Also, the participle used in example (9) and (10) is the one expressing futurity, as shown in the glosses. However, the relevant point under discussion here is the tense and mood of the auxiliary. The analysis for the various forms of participles goes beyond the limits of this work.

So far, these paradigms are very similar to the Italian ones, with the only difference ⁹⁸ that in Italian, especially with an embedded past, *to hope* necessarily selects a ⁹⁹ subjunctive. ¹⁰⁰

Consider also the following examples: ¹⁰¹
¹⁰²

(15) *Ara-n huys un-i   **wor** Anna-n mrc'uyt'-ə hałt'-er
      Ara-ART hope have-3SG that Anna-ART competition-ART win-SBJV.PST.3SG ¹⁰³
      'Ara hopes that Anna won the competition'

¹⁰⁴

(16) *Ara-n huys un-er   **wor** Anna-n mrc'uyt'-ə hałt'-i
      Ara-ART hope have-IMP.3SG that Anna-ART competition-ART win-SBJV.3SG ¹⁰⁵
      'Ara hoped that Anna wins the competition'

Sentences (15) and (16) violate the basic rules of the *consecution temporum et* ¹⁰⁶ *modorum*, in that in (15) we have a main present followed by an embedded past ¹⁰⁷ subjunctive, and conversely, in (16), the main past is followed by an embedded ¹⁰⁸ present subjunctive. The same is true in Italian. Consider the Italian paradigm:[10] ¹⁰⁹

(17) Gianni spera che Maria vinca la gara
      Gianni hopes that Maria win.SBJV.3SG the race ¹¹⁰
      'Gianni hopes that Maria wins the race'

(18) *Gianni spera che Maria vincesse la gara
      Gianni hopes that Maria win.SBJV.PST.3SG the race ¹¹¹
      'Gianni hopes that Maria won the race'

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[10]This is the *consecutio* found in classical Latin as well. Note that in Italian, in order to express pastness of the embedded event with respect to the main predicate, a compound form must be used:

(i)   Gianni spera che Maria abbia vinto la gara
      Gianni hopes that Maria have.SBJV.3SG win the race
      'Gianni hopes that Maria won the race'

(ii) Gianni sperava che Maria avesse vinto la gara
      Gianni hoped that Maria have.SBJV.PST.3SG win the race
      'Gianni hoped that Maria won the race'

In Armenian as well, a compound form must be used:

(iii) Ara-n huys un-i   **t'e** Anna-n mrc'uyt'-ə hałt'-el ē
      Ara-ART hope have-3SG that Anna-ART competition-ART win-PRF.PTCP AUX.3SG
      'Ara hopes that Anna has won the competition'

(iv) Ara-n huys un-er   **t'e** Anna-n mrc'uyt'-ə hałt'-el ēr
      Ara-ART hope have- PST.3SG that Anna-ART competition-ART win-PRF.PTCP
      AUX.PST.3SG
      'Ara hoped that Anna had won the competition'

(19)   *Gianni sperava che Maria vinca la gara
       Gianni hoped that Maria win.SBJV.3SG the race   112
       'Gianni hoped that Maria wins the race'

(20)   Gianni sperava che Maria vincesse la gara
       Gianni hoped that Maria win.SBJV.PST.3SG the race   113
       'Gianni hoped that Maria won the race'

As can be seen, the paradigms are identical. As argued for Italian in Giorgi (2009), 114
this shows that in both languages the subjunctive morphology undergoes a *tense* 115
agreement rule, barring past-under-present and present-under-past.[11]   116

3   The Data: Embedded Complement Clauses Introduced   117
by the Complementizer *t'e*   118

3.1   Dubitative *t'e*   119

The complementizer *t'e* introduces finite complement clauses in the same contexts 120
we illustrated in the preceding section. Let's consider the clausal complement of *to* 121
hope: 122
                                                                                      123

(21)   Ara-n huys un-i   **t'e** Anna-n mrc'uyt'-ə hałt'-elu ē
       Ara-ART hope have-3SG that Anna-ART competition-ART win-FUT.PTCP
       AUX.3SG   124
       'Ara hopes that Anna wins the competition'

                                                                           125
(22)   Ara-n huys un-i   **t'e** Anna-n mrc'uyt'-ə hałt'-el ē
       Ara-ART hope have-3SG that Anna-ART competition-ART win-PRF.PTCP
       AUX.3SG   126
       'Ara hopes that Anna won the competition'

In examples (21) and (22) the embedded verbal form is an indicative, whereas in the 127
following examples an embedded subjunctive is present: 128

(23)   *Ara-n huys un-i   **t'e** Anna-n mrc'uyt'-ə hałt'-i
       Ara-ART hope have-3SG that Anna-ART competition-ART win-SBJV.3SG   129
       'Ara hopes that Anna wins the competition'

                                                                           130
(24)   *Ara-n huys un-i   **t'e** Anna-n mrc'uyt'-ə hałt'-er
       Ara-ART hope have-3SG that Anna-ART competition-ART
       win-SBJV.PST.3SG   131
       'Ara hopes that Anna won the competition'

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[11]For a similar perspective, see also Costantini (2006) and Laskova (2012, 2017).

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(25)　*Ara-n huys un-er　**t'e** Anna-n mrc'uyt'-ə hałt'-i
　　　Ara-ART hope have-PRF.3SG that Anna-ART competition-ART
　　　win-SBJV.3SG

133

　　　'Ara hoped that Anna wins the competition'

134

(26)　*Ara-n huys un-er　**t'e** Anna-n mrc'uyt'-ə hałt'-er
　　　Ara-ART hope have- PST.3SG that Anna-ART competition-ART win-
　　　SBJV.PST.3SG

135

　　　'Ara hoped that Anna won the competition'

Independently of any other consideration, with this predicate, a clause introduced by 136
the complementizer *t'e* featuring a subjunctive is impossible. The ungrammaticality 137
of examples (23) and (26) contrasts with the acceptability of (13) and (14) above. 138
Examples (24) and (25) would in any case violate the subjunctive agreement rule 139
as well: in (24) a past subjunctive appears under a present and in (25) a present 140
subjunctive appears under a past tense, but the ungrammaticality of (23) and (26) 141
calls for an explanation. 142

　　Note also that the verbs *xndrel* (ask, plead), *harc'nel* (ask, inquire) *uzenal* 143
(want), *kamenal* (want, wish), *c'ankanal* (wish, desire) only take an embedded 144
subjunctive and are never compatible with this complementizer. Consider the 145
following paradigm: 146

147

(27)　Ara-n c'ankan-um ē　**wor** Anna-n mrc'uyt'-ə hałt'-i
　　　Ara-ART wish- PRS.PTCP AUX.3SG that Anna-ART competition-ART win-
　　　SBJV.3SG

148

　　　'Ara wishes that Anna wins the competition'

149

(28)　Ara-n c'ankan-um ēr　**wor** Anna-n mrc'uyt'-ə hałt'-er
　　　Ara-ART wish-PRS.PTCP AUX.PST.3SG that Anna-ART competition-ART
　　　win-SBJV.PST.3SG

150

　　　'Ara wished that Anna won the competition'

Examples (27) and (28) show the usual sequence of tense rule, where an embedded 151
subjunctive must exhibit an agreeing form with respect to the main one. These 152
examples minimally contrast with the following ones: 153

154

(29)　*Ara-n c'ankan-um ē　**wor** Anna-n mrc'uyt'-ə hałt'-um ē
　　　Ara-ART wish- PRS.PTCP AUX.3SG that Anna-ART competition-ART win-
　　　PRS.PTCP AUX.3SG

155

　　　'Ara wishes that Anna wins the competition'

156

(30)　*Ara-n c'ankan-um ēr　**wor** Anna-n mrc'uyt'-ə hałt'-um ēr
　　　Ara-ART wish-PRS.PTCP AUX.PST.3SG that Anna-ART competition-ART
　　　win-PRS.PTCP AUX.PST.3SG

157

　　　'Ara wished that Anna won the competition'

Examples (29) and (30) are ungrammatical because the embedded verbal form 158
is an indicative and not a subjunctive. Finally, example (31) and (32) show that in 159
these cases the complementizer *t'e* is impossible, due to its incompatibility with the 160
subjunctive (obligatory here): 161

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(31) *Ara-n c'ankan-um ē **t'e** Anna-n mrc'uyt'-ə hałt'-i
Ara-ART wish-PRS.PTCP AUX.3SG that Anna-ART competition-ART win-
SBJV.3SG 163
'Ara wishes that Anna wins the competition'

164

(32) *Ara-n c'ankan-um ēr **t'e** Anna-n mrc'uyt'-ə hałt'-er
Ara-ART wish- PRS.PTCP AUX.PST.3SG that Anna-ART competition-ART
win-SBJV.PST.3SG 165
'Ara wished that Anna won the competition'

The verbs listed above all follow this paradigm. 166
The interpretation to be assigned to *t'e* clauses, when they are available, is not the 167
same as the one assigned to *wor* clauses. As pointed out above, the complementizer 168
t'e in fact is used when the utterer wants to express an attitude, usually doubt, with 169
respect to the embedded content. For instance, in the grammatical examples (23) and 170
(26), the utterer wants to convey the idea that *Ara* had an inadequate opinion about 171
Anna's chances of victory, and that she, the utterer, doesn't think such a victory 172
possible. We can call this complementizer a *dubitative* one. The reason why the 173
subjunctive is not available with *t'e* is addressed in section 4. 174

3.2 Reportive *t'e* 175

Consider now the distribution of *t'e* with saying predicates: 176

(33) Ara-n as-um ē   **t'e** Anna-n ut-um ē
Ara-ART say-PRS.PTCP AUX.3SG that Anna-ART eat-PRS.PTCP AUX.3SG 177
'Ara says that Anna is eating'

(34) Ara-n as-um ē   t'e Anna-n ker-el ē
Ara-ART say-PRS.PTCP AUX.3SG that Anna-ART eat-PST.PTCP AUX.3SG 178
'Ara says that Anna has eaten'

(35) Aran as-ac'   **t'e** Anna-n ut-um ē
Ara-ART say-AOR.3SG that Anna-ART eat-PRS.PTCP AUX.3SG 179
'Ara said that Anna was eating'

(36) Aran as-ac'   **t'e** Anna-n ker-el ē
Ara-ART say-AOR.3SG that Anna-ART eat-PRF.PTCP AUX.3SG 180
'Ara said that Anna has eaten'

In examples (33) and (34) the main predicate is a present verbal form, whereas in (35) and (36) it is a past. The distribution of the embedded verbal forms is the same we observed with the complementizer *wor*.

As is the case of examples (21) and (22) above, the presence of the complementizer *t'e* can give rise to a dubitative interpretation: the speaker implies that she does not (fully) believe what *Ara* said.

However, such an interpretation is not the only one, in that the sentences in question can also be interpreted as instances of direct discourse, reporting what *Ara* said, with her own words. A sentence such as (33) can be used by the speaker for reporting the following direct speech:

(37) Ara-n as-um ē: "Anna-n ut-um ē"
      Ara-ART say-PRS.PTCP AUX.3SG: "Anna-ART eat-PRS.PTCP AUX.3SG"
      'Ara says: "Anna is eating" '

In this case, there is no dubitative interpretation, but simply a report of what was said. We dub this construction a *reportive* one. The same holds for examples (34), (35) and (36). Hence, these sentences are all in principle ambiguous between a dubitative interpretation and reportive one.

Here we consider the distribution of indexicals in clauses introduced by *wor* and *t'e*, when the embedded clause is a reported speech. Consider the following examples:

(38) Hakob-n as-ac'   **wor** mekn-um ē
      Hakob -ART say-AOR.3SG that leave- PRS.PTCP AUX.3SG.
      'Hakob said that he will leave'

(39) Hakob-n as-ac'   **t'e** mekn-um em
      Hakob -ART say-AOR.3SG that leave- PRS.PTCP AUX.1SG.
      'Hakob said that he would leave'

As pointed out above, both examples can be used to report the following direct discourse:

(40) Hakob-n as-ac': "Mekn-um em"
      Hakob -ART say-AOR.3SG: "leave- PRS.PTCP AUX.1SG."
      'Hakob said: "I will leave" '

The sentences in (38) and (39), however, do it in very different ways. In example (38), where the complementizer *wor* is used, the subject is a null pronoun and the verb appears with the third person morphology. This is an almost literal translation of the English sentence.[12]

Sentence (39), introduced by *t'e*, is quite different. The verb appears with first person morphology and cannot mean that the utterer is going to leave, but only that

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[12]The lexical pronoun can also be used, as in the following example:

Hakob is going to leave, so that the literal translation of the embedded clause in (39) would be '*that (I) leave*'. In order for the embedded verbal form to refer to the utterer, *wor* must obligatorily be used:

(41) Hakob-n as-ac' **wor** mekn-um em
      Hakob -ART say-AOR.3SG that leave- PRS.PTCP AUX.1SG.
      'Hakob said that I will leave'

In other words, a first person embedded under *wor* identifies the utterer, when embedded under *t'e* it identifies the subject of the superordinate clause. Temporal indexicals exhibit a very similar behavior. Consider the following contrast:

(42) Erkušabti Hakob-n inj as-ac' **wor** vałə mekn-um ē
      Monday Hakob-ART me say-AOR.3SG that tomorrow leave-PRS.PTCP
      AUX.3SG
      'On Monday Hakob told me that he will leave tomorrow'

(43) Erkušabti Hakob-n inj as-ac' **t'e** vałe mekn-elu em
      Monday Hakob-ART me say-AOR.3SG that tomorrow leave-FUT.PTCP
      AUX.1SG
      'On Monday Hakob told me that he would leave tomorrow'

In sentence (42) with the complementizer *wor*, the verb appears with the third person morphology. Hence, the embedded subject can either refer to *Hakob* or to someone not mentioned in the sentence, as in the English translation, or in the Italian equivalent. On the other hand, in example (43) the embedded first person can only refer to the superordinate subject and not to the utterer. Interestingly the embedded temporal indexical *tomorrow* has two different interpretations: suppose that the utterer utters the sentence on Thursday, then in (42) *tomorrow* identifies Friday, i.e. the day after the one in which the sentence is uttered. In (43), on the contrary, *tomorrow* is *Hakob*'s tomorrow, namely, given the temporal specification in the main clause, it refers to Tuesday. Similarly with spatial expressions. Consider the following examples:

(44) Hakob-n inj as-ac' **wor** ays senyak-um k'n-um ē
      Hakob-ART me say say-AOR.3SG that this room-LOC sleep-PRS.PTCP
      AUX.3SG
      'Hakob told me that he sleeps in this room'

(i) Hakob-n as-ac' **t'e** yes mekn-um em
     Hakob-ART say-AOR.3SG that I leave-PRS.PTCP AUX.1SG.
     'Hakob said that he would leave'

In this sentence, the first person pronoun *yes* appears in the subordinate clause, so that the literal translation would be 'that I leave'. The presence of the lexical pronoun is emphatic/focused, as is usually the case in pro-drop languages such as Italian and Armenian.

234

(45)   Hakob-n inj as-ac' **t'e** ays senyak-um k'n-um ē
       Hakob-ART me say-AOR.3SG that this room-LOC sleep-PRS.PTCP AUX.3SG   235
       'Hakob told me that he sleeps in this room'

In the sentence introduced by *wor*, i.e. (44), the locution *in this room* identifies the   236
room where the utterer is located. On the contrary, in sentence (45) it identifies the   237
room where *Hakob* is speaking.[13]   238

Concluding these brief remarks, the presence of *t'e* determines a complete shift   239
of the interpretation of the embedded indexicals, from the utterer to the subject of   240
the main clause. In section 4.2 we show that this is not an isolated case across   241
languages, in that the same distribution can be found in Hindi.   242

4   Towards an Explanation   243

As emerges from the examples discussed above, the sentences introduced by *wor*   244
are neutral from the point of view of their interpretation, in that *wor* does not add   245
any special interpretive flavor to the clause it introduces. The complementizer *t'e*,   246
on the contrary, is licensed in two different contexts. On the one hand, it can express   247
a dubitative meaning, implying that the speakers do not fully believe the embedded   248
content. This function can be realized when embedded under verbs such as *hope* and   249
say. On the other, it can also introduce direct speech under verbs of communication   250
such as *say*.   251

Here we are going to argue that the licensing contexts for *t'e* are two outcomes of   252
the same basic value. Our hypothesis is that in both cases *t'e* can be characterized as   253
a *context shifter*, encoding the speaker's temporal and spatial coordinates. In order to   254
clarify this point, we have to briefly illustrate the properties of the so-called Double   255
Access Reading in MEA.   256

4.1   The Double Access Reading and the Dubitative t'e   257

We are going to develop here the hypothesis discussed in Giorgi (2010), concerning   258
the syntactic representation of indexicality in embedded contexts. She argues that   259
in Italian the highest projection in the complementizer layer hosts the speaker's   260
temporal and spatial coordinates. In embedded contexts, this position is syntactically   261

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[13]Spatial adverbials in sentences such as (44) and (45) would be preferably located on the right
of the clause, hence as the last phrase. The word order given above is preferably associated with
a focus on the predicate. The issue here however is not the basic position of adverbs, but their
indexical interpretation, hence for uniformity with the other examples we adopt even in this case
the order adverb-participle-auxiliary.

projected in clauses where the verb is an indicative form, whereas in subjunctive 262
clauses a lower complementizer position is realized.[14] 263

As we are going to discuss in a while, this hypothesis provides an explanation 264
for the availability of the Double Access Reading in languages such as Italian and 265
English. Consider the following examples:[15] 266

(46)   Anna told me that she is pregnant 267

(47)   Anna mi ha detto che è incinta
        'Anna told that she is pregnant' 268

In these cases, the embedded eventuality must be interpreted as simultaneous both 269
with the time of Anna's saying and the Utterance time. If this condition is not met, 270
the sentences are infelicitous: 271

(48)   #Two years ago Anna told me that she is pregnant 272

(49)   #Due anni fa Anna mi ha detto che è incinta
        'Two years ago Anna told me that she is pregnant' 273

The addition of the temporal adverb in these cases makes it impossible to interpret 274
the embedded present tense as simultaneous both with the main predicate and the 275
Utterance time. 276

Furthermore, in subjunctive contexts, the Double Access Reading is not avail- 277
able, due to the fact that the relevant temporal configuration is never realized. In 278
fact, as we illustrated above, the subjunctive realizes a purely agreement relation 279
and not a real temporal one. Hence, in sentences such as the following ones, the 280
interpretation is always a simultaneous one: 281

(50)   Gianni spera che Maria sia incinta
        Gianni hope.PRS that Maria be.SBJV.PRS pregnant 282
        'Gianni hopes that Maria is pregnant?

(51)   Gianni sperava che Maria fosse incinta
        Gianni hope.PST that Maria be.SBJV.PST pregnant 283
        'Gianni hoped that Maria was pregnant'

(52)   *Gianni spera che Maria fosse incinta
        Gianni hope.PRS that Maria be.SBJV.PST pregnant 284
        'Gianni hopes that Maria is pregnant?

---

[14]Actually, the issue is more complex than that, as discussed in Giorgi (2010), but for the present purposes this generalization is sufficient.

[15]There is an ample literature on the Double Access Reading. See, among the others, Ogihara (1995), Abush (1997), Giorgi and Pianesi (1997), Schlenker (1999), Sharvit (2003) and Giorgi (2010).

(53)   *Gianni sperava che Maria sia incinta
       Gianni hope. PST that Maria be.SBJV.PRS pregnant   285
       'Gianni hoped that Maria was pregnant'

Sentences (52) and (53), where the embedded verbal form does not agree with the   286
main one, are ungrammatical.   287

The hypothesis developed in Giorgi (2010) is that this is due to the properties   288
of the complementizers introducing the indicative and the subjunctive. It is not   289
possible to reproduce here the whole relevant discussion, because it lies outside   290
the scope of this work. The basic idea is that, though homophonous in standard   291
Italian, the two complementizers actually have different properties, in that, for   292
instance, the subjunctive complementizer is deletable, but the indicative one is   293
not.[16] The indicative complementizer lies in a higher position in the syntactic 294
structure, with respect to the subjunctive complementizer and carries in its specifier 295
position a null demonstrative, referring to the utterer. Given the presence of the 296
utterer's coordinates, the embedded event must have an indexical interpretation in 297
the embedded context as well. On the contrary, the subjunctive complementizer does 298
not carry the utterer's coordinates and this is why the Double Access Reading in   299
Italian is available only in indicative clauses.   300

MEA is not a Double Access Reading language, contrary to English and Italian,   301
but similarly to other Indoeuropean languages, such as for instance Romanian.[17] 302

(54)   Anna-n inj as-ac'   **wor** hłi ē
       Anna-ART me say-AOR.3SG that pregnant AUX.3SG   303
       'Anna told me that she is pregnant'

Contrary to the equivalent sentences in English and Italian, (54) does not imply that 304
Anna is pregnant at utterance time. This point is further illustrated by the following 305
example:[18]   306

(55)   Erku tari aṙaj Anna-n inj as-ac'   **wor** hłi ē
       Two years ago Anna-ART me say-AOR.3SG that pregnant AUX.3SG   307
       'Two years ago Anna told me that she was pregnant'

---

[16]Note that in many languages the indicative complementizer and the subjunctive one have a different lexicalization. See for instance Damonte (2011) for an analysis of Salentino, a Southern Italian dialect.

[17]On cross linguistic issues concerning the Double Access Reading, see Giorgi (2008).

[18]In Romanian, the judgment is the same as in MEA:

(i)   Acum 2 ani Gianni a spus ca Maria e insarcinata
       Two years ago Gianni has said that Maria is pregnant

The presence of the temporal adverb *acum 2 ani* (two years ago) does not give rise to ungrammaticality. See Giorgi (2008) for a discussion.

In Armenian, the sentence, even when featuring a temporal adverb such as *two years* ⁣₃₀₈
ago, is perfectly grammatical. Note that in Italian, to make the sentence with the ₃₀₉
adverb *two years ago* felicitous, the imperfect must be used: ₃₁₀

(56)   Due anni fa Anna mi ha detto che era incinta
       Two years ago Anna told me that she be.IMP pregnant ₃₁₁
       'Two years ago Anna told me that she was pregnant'

In Armenian as well the imperfect verbal form can be realized, as shown in the ₃₁₂
following example: ₃₁₃

(57)   Erku tari aŕaj Anna-n inj as-ac'   **wor** hɫi ēr
       Two years ago Anna-ART me say-AOR.3SG that pregnant AUX.IMP.3SG ₃₁₄
       'Two years ago Anna told me that she was pregnant'

The difference however between (55) and (57) is only one of register, (57) being ₃₁₅
considered the "correct" form by normative grammars, whereas, in everyday life, ₃₁₆
native speakers of MEA mostly use (55). Recall that, as illustrated in the previous ₃₁₇
section, the complementizer *wor* introduces both indicative and subjunctive clauses, ₃₁₈
whereas the occurrences of dubitative *t'e* are incompatible with the subjunctive. ₃₁₉
    On the basis of these observations, our hypothesis is that *wor* is the syntactically ₃₂₀
low complementizer, corresponding to the one introducing Italian subjunctive ₃₂₁
clauses. As a matter of fact, even when an indicative is realized, no Double Access ₃₂₂
Reading is present in MEA. Hence, the difference between MEA and Italian is that ₃₂₃
wor never hosts in its specifier position the empty demonstrative referring to the ₃₂₄
utterer. ₃₂₅
    On the contrary, dubitative *t'e* does host the empty demonstrative and, as a ₃₂₆
consequence, it is incompatible with a subjunctive. Furthermore, dubitative *t'e* in ₃₂₇
these cases can exhibits the Double Access Reading as well, as shown by the strong ₃₂₈
marginality of the following example (the locution *How is it possible at 60?* has ₃₂₉
been added to provide a dubitative context): ₃₃₀
 ₃₃₁
(58)   ?*Erku tari aŕaj Anna-n inj as-ac'   **t'e** hɫi ē. (Mit'e hnaravor ē 60
       tarekanum?)
       Two years ago Anna-ART me say-AOR.3SG that pregnant AUX.3SG. (How ₃₃₂
       possible AUX.3SG 60 years?).
       'Two years ago Anna told me that she is pregnant. (How is it possible at
       60?)'

    In this example, the embedded verbal form is a present indicative and the ₃₃₃
sentence is ungrammatical. We are arguing that this is due to the fact that *t'e* ₃₃₄
carries the utterer's temporal and spatial coordinates, which give rise to an indexical ₃₃₅
interpretation of the embedded present tense. The presence of the null demonstrative ₃₃₆
is connected to the dubitative value of this complementizer, because it expresses an ₃₃₇
evaluation by the utterer, which in this way is explicitly represented in the syntax. ₃₃₈
Concluding, we can say that in these cases, the embedded context is *shifted*, because ₃₃₉
t'e introduces the utterer, which would not be there with *wor*. ₃₄₀

As far as the interpretive properties of *t'e* are concerned, we propose that *t'e* carries a semantic, lexical, feature +dubitative, which is read off at the interface with the semantics.

Note finally that the dubitative value is independently realized by this particle in several contexts. Consider for instance the following examples:[19]

(59)   Ara-n mtac-um ēr   **t'e** in-č elk' gtn-er.
       Ara-ART think-PRS.PTCP AUX.IMP.3SG that what solution find-SBJV.PST.3SG
       'Ara was thinking what solution he could find'

(60)   Ara-n č-git-i   **t'e** ov k'hałt'i mrc'uyt'-ə.
       Ara-ART NEG-know.3SG if who win.COND.FUT.3SG competition-ART
       'Ara doesn't know who will win the competition'

In these cases *t'e* introduces an interrogative clause. It can also express a value similar to English *if*, for instance in the following case (where it appears in its augmented form *et'e*):

(61)   **Et'e** žamanakin hasn-es gnac'k' knstes
       If time arrive-SBJV.PRS.2.SG train sit.COND.FUT.2SG
       'If you arrive on time you will catch the train'

Or, in the same vein, in the following one:

(62)   Ara-n č-i hiš-um   **t'e** Anna-n hałt'-el ē mrc'uyt'-e t'e woč
       Ara-ART NEG-AUX.3SG remember if Anna-ART win-PST.PTCP AUX.3SG competition or not
       'Ara doesn't remember if Anna won the competition or not'

Finally, *t'e* can co-occur with *wor* and, as expected the order is *t'e wor* and not *wor t'e*, which would be ungrammatical:[20]

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[19]Interestingly, in example (59) *t'e* introduces a clause with a subjunctive. Note that in this sentence, the dubitative value is not due to an attitude of the utterer, but it expresses an evaluation of the superordinate subject, hence the presence of the subjunctive does not violate what said so far. For a complete analysis of all the values of this particle when equivalent to English *if* or *whether*, further research is needed. Here we are only mentioning these data as an additional support to our hypothesis.

[20]The reverse ordering of the clauses is available in both cases, but the reciprocal distribution of *t'e* and *wor* is the same:

(i)   Aydpes č'-ēr lini   **t'e wor** Anna-yin ls-er
       That way NEG-AUX.PST.3SG be.SBJV.FUT.3SG if Anna-DAT listen-SBJV.PST.3SG
       'It wouldn't be like that, if he had listened to Anna'

(ii)   Lav gnahatakan kstanas   **t'e wor** daser-d lav sovor-es
       Good mark get.COND.FUT.2SG if lesson-ART.POSS.2SG well learn-SBJV.2SG
       'You'll get a good mark, if you learn your lessons well'.

358

(63) **T'e wor** Anna-yin ls-er aydpes č'-ēr lini
If Anna-DAT listen-SBJV.PST.3SG that way NEG-AUX.PST.3SG
be.SBJV.FUT.3SG
'If he had listened to Anna, it wouldn't be like that'

359

360

(64) **T'e wor** daser-d lav sovor-es lav gnahatakan kstanas
If lesson-ART.POSS.2SG well learn-SBJV.2SG good mark get.COND.FUT.2SG 361
'If you learn your lessons well you'll get a good mark'

Examples (63) and (64) show that, on the basis of the hypothesis that linear 362
precedence mimics structural hierarchy, the complementizer *t'e* occupies a higher 363
position with respect to *wor*.[21] 364

Concluding this section, we can say that the dubitative reading is instantiated by 365
means of the complementizer *t'e*, which is higher in the structural hierarchy than 366
wor. *T'e* can realize the utterer's spatial and temporal coordinates in its specifier 367
position, similarly to the Italian complementizer *che* introducing indicative clauses. 368
When this happens, the embedded clause expresses an attitude of disbelief/ doubt 369
by the utterer with respect to the embedded content and is incompatible with the 370
subjunctive, even if the matrix verb would allow it. Moreover, even if MEA is a non 371
Double Access Reading language, the marginality of examples such as (58) above 372
tells us that our hypothesis is on the right track. The dubitative value can be realized 373
by means of *t'e* in indirect interrogatives and hypothetical constructions. In these 374
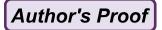cases, as expected, the subjunctive mood is possible as well. 375

4.2 Reportive t'e and a Brief Comparison with Hindi 376

In section 3.2 we illustrated reportive *t'e*, i.e. the cases where it introduces 377
complements of saying predicates. We have shown that in these cases the indexicals 378
present in the embedded clause are not interpreted on the basis of the utterer's spatial 379
and temporal location, but on the basis of the speaker's one, i.e. the subject of the 380
main clause. 381

The hypothesis we discussed in the previous section, i.e. that *t'e* can be a *context* 382
shifter, can account for these cases as well.[22] The complementizer *t'e* hosts in its 383
specifier position a null demonstrative referring to the main subject, i.e. the speaker 384
who originally uttered the embedded content. Therefore, in the embedded clause 385

---

[21]On the relationship between linear order and structural hierarchy, see the seminal work by Kayne (1994) and subsequent developments.

[22]In its reportive function, *t'e* does not carry the feature +dubitative we mentioned in the preceding section. We can look at it as a case of lexical ambiguity, or we could resort to a more complex theory, according to which *t'e* can be inserted even in this case with its interpretive features, which however are *redundant* and not interpreted in that the pragmatic context does not license them. Further study is indeed required to clarify this issue.

the spatial and temporal coordinates relevant for the interpretation of indexicals – 386
indicative tenses, pronouns, spatial and temporal indexical adverbials – are those 387
of the main subject. In a way, these contexts are similar to the Italian and English 388
quotation cases, such as the following ones:[23] 389

(65) Partirò domani, disse Gianni
'I will leave tomorrow, said Gianni' 390

(66) I will leave tomorrow, said John 391

In these cases, due to the presence of *disse Gianni* (said Gianni), the event is 392
located in Gianni's future, the first person pronoun *I* does not identifies the utterer, 393
but the speaker *Gianni*, and *tomorrow*. The main difference between English and 394
Italian on one side, and MEA on the other, is that in Italian and English it would be 395
impossible to have the reference for the indexicals we see in (65) and (66), when the 396
sentence is introduced by a complementizer: 397

(67) Gianni ha detto che partirò domain
'Gianni said that I will leave tomorrow' 398

(68) John said that I will leave tomorrow 399

The event is located in the utterer's future, not John's, and analogously *I* and 400
tomorrow refer to the utterer. 401

Interestingly, we find a similar pattern in another western Indoeuropean lan- 402
guage, namely in Hindi. In this language the particle *ki* introduces complement 403
clauses of verbs of communication, such as say, perception, such as see and hear, 404
thinking and belief etc., as in the following case (from Zanon, 2013, ex. 45): [24] 405

(69) Acchī bāt hæ **ki** āpko nɔkrī milī hæ
Good thing is that you.HON.DAT job meet.PRF AUX.PRS.2SING 406
'It is good that you have found a job'

Moreover, like MEA, Hindi is not a Double Access Reading language, as 407
illustrated by means of the following examples (from Zanon, 2013, exx. 19 and 408
20): 409

(70) jɔn ne kahā **ki** karīnā garbhvatī hæ
John.ERG say.PRF that Kareena pregnant is.PRS.3SING 410
'John said that Kareena was pregnant'

An embedded present tense is not interpreted with respect to the utterer's temporal 411
location, but only with respect to that of the speaker. Coherently, therefore, the 412
presence of the temporal locution *two years ago* does not modify the status of the 413
sentence, as illustrated in the following example: 414

---

[23]See Giorgi (2016) for an analysis of these cases in Italian and English.

[24]These data are discussed in Zanon (2013). See also and Koul (2008), for a general perspective,
and Manetta (2011), for a view of movement and subordination.

(71)   do sāl pahle jɔn ne kahā   **ki** karīnā garbhvatī hæ
       two years ago John.ERG say.PRF that Kareena pregnant is.PRS.3SING   415
       'Two years ago John said that Kareena was pregnant'

In example (71) the embedded verbal form is a present tense, as in (70) and no   416
Double Access Reading effect is observable.   417

  Let's analyze now the distribution of indexicals in embedded contexts (from   418
Zanon, 2013, exx. 65 and 66):   419

(72)   jɔn ne kahā   **ki** m æ̃ bazār jāū̃gā
       John.ERG say.PRF that I market go.FUT   420
       'John said "I will go to the market" '

(73)   jɔn ne kahā   **ki** vo bazār jāegā
       John.ERG say.PRF that he market go.FUT   421
       'John said that he would go to the market'

Examples (72) and (73) constitute a minimal pair, the only difference being the   422
person – first vs. third – appearing in the embedded clause. The two sentences   423
can have the same interpretation, in that both pronouns *mæ̃*(I) in (72) and *vo*   424
(he) in (73) can refer to John, i.e. the subject of the superordinate clause. This is   425
exactly what happens in MEA, with the only difference that MEA has a dedicated   426
complementizer for the meaning in (72), i.e. *t'e*.   427

  In Hindi the verbal form of the clause embedded under a verb of saying can   428
also be realized as a subjunctive, when expressing a modalized meaning, as in the   429
following case (from Zanon, 2013, ex. 73):   430

(74)   jɔn ne kahā   **ki** mæ̃jītū̃
       John.ERG say.PRF that I win.SUBJ   431
       'John said that I (may) win'

Interestingly, in this case the first person pronoun *mæ̃*(I), must refer to the utterer   432
and not to John. Again, this distribution resembles what we found in MEA. Hence,   433
we can account for these cases by means of the theory discussed above. In Hindi,   434
as in Italian, there is only one complementizer *ki*, which can occupy two different   435
positions, a high one, hosting the null determiner pointing to the speaker, or a lower   436
one where no such element is realized. In Hindi *ki*, like *t'e* in Armenian, can work   437
as a context shifter and appear also with a reportive function.   438

  Finally, note that indexicals, such as first and second person pronouns, and   439
temporal and spatial expressions, must be allowed to shift – in Italian as well in   440
quotation contexts, or in Free Indirect Discourse, as discussed in Giorgi (2016) –   441
depending on the reference of the null determiner in the high complementizer   442
position.   443

5 Conclusions

In this chapter we analyzed the properties of two complementizers – *wor* and *t'e* – in MEA. We saw that *t'e* has two special functions when used in embedded contexts: it can express a dubitative meaning – i.e., it can be used by the utterer to express disbelief with respect to what the subject of the main clause said or believed – and can be used as a reportive complementizer, i.e. to introduce a sort of direct speech attributed to the subject of the main clause. In these usages, *t'e* is incompatible with the subjunctive, even in those contexts which might normally allow it and in the reportive cases it determines a complete shift of all the indexical elements: tenses, pronouns, spatial and temporal adverbials. We explained these properties by hypothesizing that *t'e* occupies a position in the syntax comparable to the one occupied by the Italian *che* when introducing indicative clauses. In Italian, this projection hosts in its specifier position a null demonstrative pointing to the utterer, giving rise to the Double Access Reading. We argue that in MEA the specifier position of *t'e* can host such a null demonstrative, which can either point to the utterer – as in the dubitative reading – or to the subject of the main clause – as in the reportive reading. We concluded with a brief comparison with the Hindi complementizer *ki*, which can be used in reportive contexts as well, determining a complete shift of the indexicals present in the embedded cause.

Our analysis shows that complementizers play an important role in the syntax-semantics interface, in that they aren't just simple conjunction particles, but trigger the correct interpretation in the various contexts.

Further research is needed to clarify the relationship between the dubitative *t'e* and its usages in hypothetical constructions, meaning *if* and *whether,* and in indirect interrogatives. Finally, a closer look should be given to languages known to exhibit similar phenomena, especially for investigating the connections between these phenomena and the lack of the Double Access Reading.

The list of abbreviations The paper adopts interlinear morpheme-by-morpheme glosses according to Leipzig Glossing Rules (https://www.eva.mpg.de/lingua/pdf/Glossing-Rules.pdf), detailed below:

1	first person
AOR	aorist
ART	article
AUX	auxiliary
COND	conditional
DAT	dative
FOC	focus
FUT	future
IMP	imperfect
INF	infinitive

1   first person
2   second person
3   third person
AOR   aorist
ART   article
AUX   auxiliary
COND   conditional
DAT   dative
FOC   focus
FUT   future
IMP   imperfect
INF   infinitive

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LOC	locative	486
NEG	negative	487
PL	plural	488
POSS	possessive	489
PRF	perfect	490
PRS	present	491
PST	past	492
PTCP	participle	493
SG	singular	494
SBJV	subjunctive	495

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