

1. Negative questions (Neg-Qs)

It is generally accepted that Neg-Qs can convey **speaker bias**.

(1) Original speaker bias (for a proposition p)

Belief or expectation of the speaker that p is true, based on their epistemic state prior to the current situational context. (cf., Ladd 1981: 66)

For instance, in English (*inter alia*, Goodhue 2022):

- (2) a. Was it **not** raining? [Low Neg-Q, LNQ]
 b. Wasn't it raining? [High Neg-Q, HNQ; bias for p]

Korean exhibits two morphological negation forms. In polar questions, they can yield **different interpretations** (Kim 2016; Yang and Park 2024):

- (3) a. **Short Form (SF) Neg-Q *an***: Unbiased
 pi-ka **an** o-ni?
 rain-NOM SF.NEG come-QUE
 'Is it **not** raining?'
 b. **Long Form (LF) Neg-Q (-*ci*) *anh-***: Ambiguous
 pi-ka o-ci **anh**-ni?
 rain-NOM come-CONN LF.NEG-QUE
 'Isn't it raining? / Is it **not** raining?'

This study investigates the **discourse-sensitive behavior** of Neg-Qs in Korean, drawing on insights from Farkas and Bruce (2010), among others.

2. Key properties

When the **past tense marker -*ass/-ess*** is added to the verb, the SF.Neg *an* must precede the tense marker (**SF.Neg-Q**), but the LF.Neg *anh-* may appear before (**Pre-T-LF.Neg-Q**) or after (**Post-T-LF.Neg-Q**) the tense marker:

- (4) a. pi-ka **an** o-**ass**-ni? [SF.Neg-Q]
 rain-NOM SF.NEG come-PST-QUE
 'Was it not raining?'
 b. pi-ka o-ci **anh**-**ass**-ni? [Pre-T-LF.Neg-Q]
 rain-NOM come-CONN LF.NEG-PST-QUE
 'Was it not raining?/Wasn't it raining?'
 c. pi-ka o-**ass**-ci **anh**-ni? [Post-T-LF.Neg-Q]
 rain-NOM come-PST-CONN LF.NEG-QUE
 'Wasn't it raining?'

While **Post-T-LF.Neg-Qs** do not license an NPI at all, **Pre-T-LF.Neg-Qs** can—but only under unbiased readings.

- (5) a. *amwuto* o-ci **anh**-**ass**-ni? [Pre-T-LF.Neg-Q]
 anyone.NOM come-CONN LF.NEG-PST-QUE
 Int. 'Did nobody come? / *Didn't nobody come?'
 b. **amwuto* o-**ass**-ci **anh**-ni? [Post-T-LF.Neg-Q]
 anyone.NOM come-PST-CONN LF.NEG-QUE
 Int. 'Didn't nobody come?'

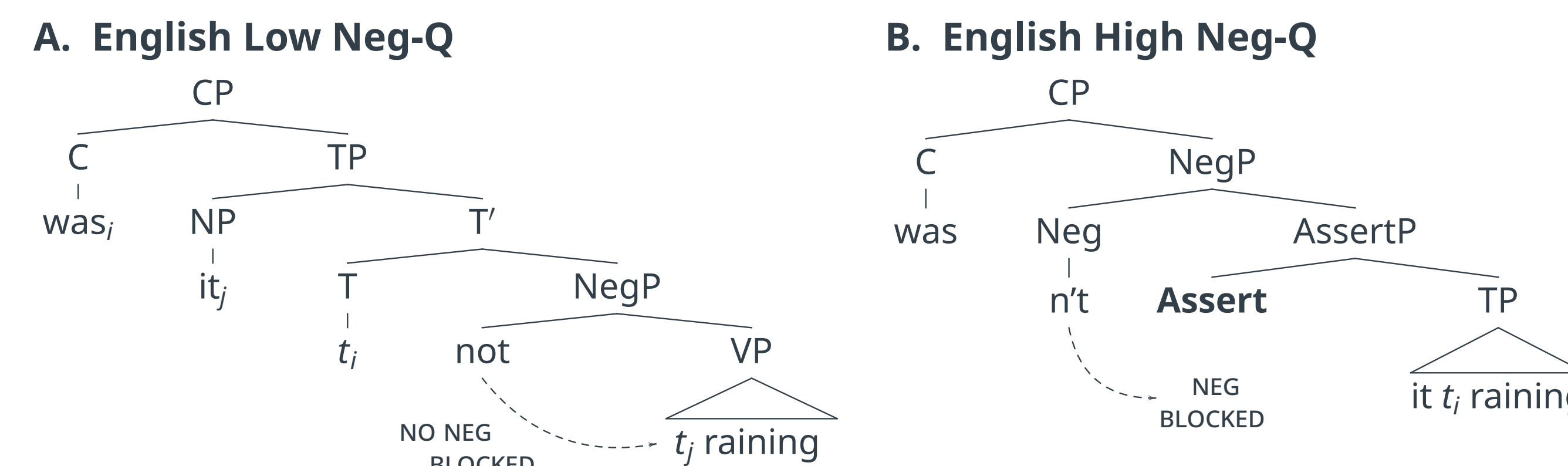
Post-T-LF.Neg-Q has a conjugated variant *-cahn-*, which incorporates the connective marker *-ci* and the LF.Neg; and conveys a **biased interpretation** only.

- (6) John-i/**amwuto* hakkyo-ey o-**ass**-**cahn**-a?
 John-NOM/anyone.NOM school-to come-PST-CONN-LF.NEG-QUE
 'Doesn't John/*nobody come to school?'

3. Previous analyses

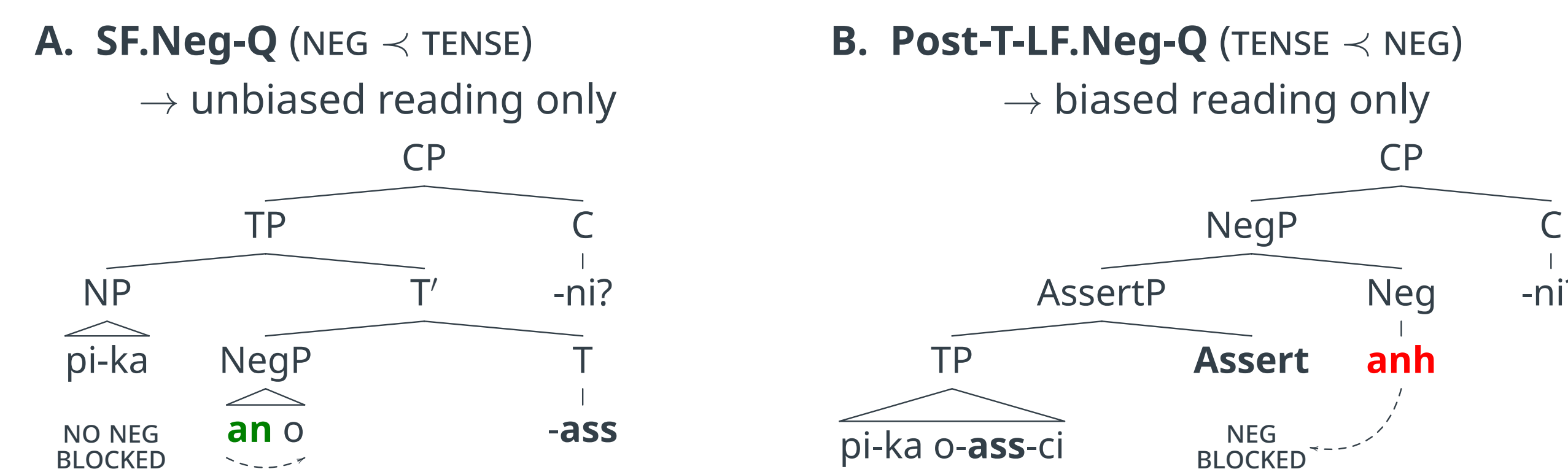
Goodhue (2022) argues that **syntax alone** determines the interpretation of English Neg-Qs.

Figure 1: Structures of English Low and High Neg-Qs (Goodhue 2022)



Yang and Park (2024), following Goodhue (2022), argue that **Post-T-LF.Neg-Qs** contain an AssertP triggering bias (Fig 2B), while **SF.Neg-Qs** do not (Fig 2A).

Figure 2: Structure of Korean Neg-Qs by Yang and Park (2024)

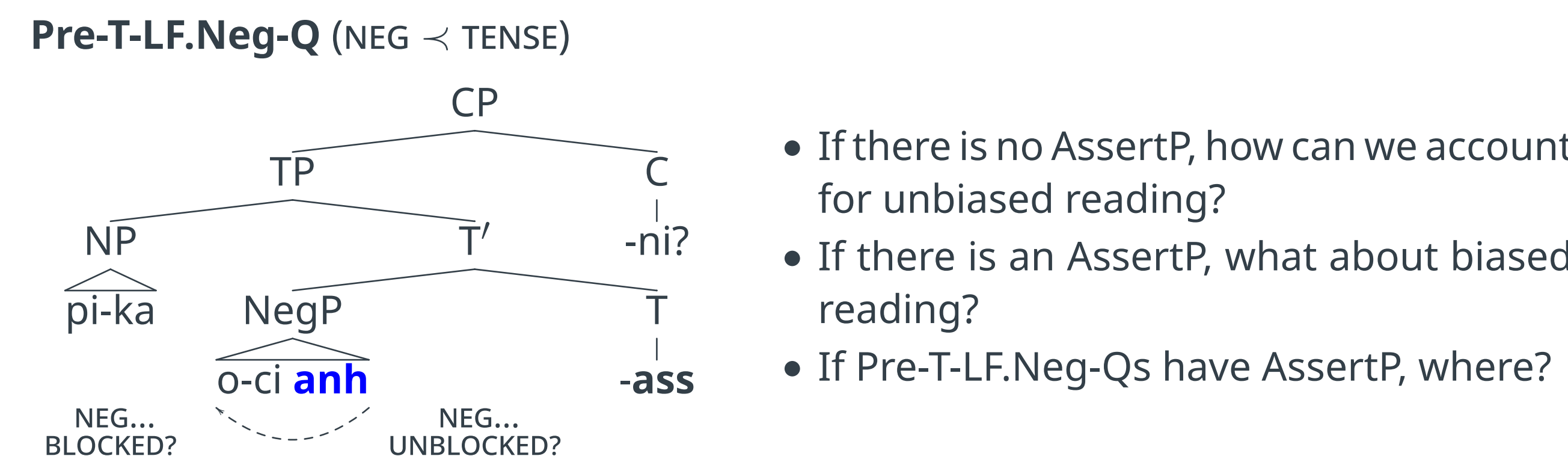


4. Discussion

4.1. AssertP and the ambiguity of Korean Pre-T-LF.Neg-Qs

- Experimental evidence by Kim et al. (2024) shows that **Pre-T-LF.Neg-Qs** can convey bias. \Rightarrow AssertP ✓
- Pre-T-LF.Neg-Qs**, with **no bias**, can license an **NPI** (cf., (5)). \Rightarrow AssertP ✗

Figure 3: Possible structure of Korean Pre-T-LF.Neg-Q?



4.2. Context sensitivity

Neg-Qs are sensitive to **contextual evidence** as well (Romero 2024: 283):

- (7) A: Where do you want to go for dinner? [neutral evidence on p]
 B₁: #Is there **no** vegetarian restaurant around here?
 B₂: Isn't there a vegetarian restaurant around here?
 B₃: ce cip pipimpap {(#)**an** phal-a? / phal-ci **anh**-a?}
 that place Bibimbap SF.NEG sell-QUE / sell-CONN LF.NEG
 '#Does that place **not** / Doesn't that place} serve Bibimbap?'
 (8) A: Since you guys are vegetarian, we can't go out in this town, where it's all meat and potatoes. [evidence against p]
 B₁: Is there **no** vegetarian restaurant around here?
 B₂: Isn't there a vegetarian restaurant around here?
 B₃: ce cip pipimpap {**an** phal-a? / phal-ci **anh**-a?}

4.3. Tense marker and negation in LF.Neg-Qs

This study claims an LF.Neg precedes the tense marker *iff* (i) the utterer is **biased** and (ii) assumes that the participants **share the truth-value** of p :

- (9) [Context 1] Last summer, A and B traveled to Japan **together**.
 [Context 2] Last summer, **only B** traveled to Japan.
 A: caknyen ilpon, emcheng tew-ess-ci **anh**-a?
 last.year Japan really hot-PST-CONN LF.NEG-QUE
 Int. 'Wasn't it really hot in Japan last year?' [Context 1 ✓; 2 ✗]
 A: caknyen ilpon, emcheng tep-ci **anh**-ass-e?
 last.year Japan really hot-CONN LF.NEG-PST-QUE
 Int. 'Wasn't it really hot in Japan last year?' [Context 1 ✓; 2 ✓]

Unlike **Pre-T-LF.Neg-Qs**, **Post-T-LF.Neg-Qs** require that the truth-value of the prejacent be part of **the common ground** (CG) (cf., Farkas and Bruce 2010).

5. A discourse-based approach

To provide a formal analysis with a focus on discourse, this study adopts the core notions of **the Table model** (Farkas and Bruce 2010).

(10) A: Is Sam home? (s_1) B: No, he isn't. (s_2)

A	Table	B
	'Sam is home' [Interr.]: $\{p, \neg p\}$ 'No, he isn't' [Decl.]: $\{\neg p\}$	$\neg p$
Common Ground (CG)	$s_2 = \{s_1 \cup \{\neg p\}\}$	Projected Set (PS): $ps_2 = \{s_2\}$

Towards a discourse-based analysis

- By uttering Korean biased Neg-Qs, speaker commits a singleton set $\{p\}$ with the reversed surface polarity (cf., Rudin 2024).
- Context-sensitivity can be captured on the Table; preceding utterance of Neg-Qs (i.e., s_1) determines the licenseability (cf., (7) - (9)).
- If Common Ground (CG) contains the bias of Neg-Qs (i.e., $\{p\} \subset CG$), the question can be realized as a **Post-T-LF.Neg-Q**; otherwise, only **Pre-T-LF.Neg-Qs** are available (cf., (9)).
- The form-meaning mismatch, without requiring a functional phrase or hidden structure, can be accounted for within the Construction Grammar framework (i.a., Ginzburg and Sag 2000; Goldberg 2006; Kim 2016).

6. Theoretical implication

Incorporating the core notions of the discourse-based framework allows for a unified account of the complex distribution and interpretation of Korean Neg-Qs, aligning their syntactic variation with context-dependent meaning.

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