The Clause-Mate Condition in Japanese Multiple Cleft

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Outline

- Syntax of Japanese Clefts Clefts in Japanese
- \mathcal{L} . The Clause-Mate Condition in Japanese Multiple Clefts The Clause-Mate Condition CMC Obviation
- 3. A Prosodic Account of the CMC Influence of Prosody on Parsing Syntax-Prosody Mapping
- 4. Obviation of the CMC Focus Prosody Extension: Long-distance Scrambling Length Effect

Main Claim

Japanese multiple clefts A new account of the Clause-Mate Condition (CMC) in

- differs from purely syntactic accounts
- accounts for both the CMC and the CMC obviation cases (cf. Koizumi 1995, 2000; Takano 2002) (cf. Hiraiwa & Ishihara 2002, 2010)
- treats the CMC as a result of an interaction of prosody and parsing, assuming the Implicit Prosody Hypothesis (Bader 1998; Fodor 1998).

Clefts in Japanese

Basic components

Japanese clefts are composed of three parts:

- 1. Presuppositional clause
- headed by a complementizer no
- followed by a topic marker -ma
- 2. Focus XP(s) (with Case-marker/Postposition!)
- 3. Copula da

(1)'It was three apples that Naoya atc. Naoya-ga e; tabeta no|-wa ringo-o mit-tu; da. ate C-TOP apple-ACC 3-CL COP (Cleft)

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Clefts in Japanese

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Cleft vs. Pseudo-cleft.

If the focus XP does not bear a Case-marker/postposition, they behave differently syntactically. We call them *pseudo-clefts*, and will not discuss it here.

- (2) [Naoya-ga e_i tabeta no]-wa ringo-o mit-tu_i da.

 N.-NOM ate C-TOP apple-ACC 3-CL COP

 'It was three apples that Naoya ate. (Cleft)
- (3) |Naoya-ga e; tabeta no|-wa ringo-\(\psi\) mit-tu; da.

 N.-NOM ate C-TOP apple 3-CL COP

 'It was three apples that Naoya ate. (Pseudo-cleft)

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Clefts in Japanese Multiple Cleft

Japanese clefts allow multiple foci (while pseudo-clefts don't).

- (4) [Naoya-ga e; e; ageta no]-wa Mari-ni; ringo-o; mit-tuj da. N.-NOM gave C-TOP M.-DAT apple-ACC 3-CL COP '(Lit.) It was three apples to Mari that Naoya gave.' (Cleft)
- (5) *[Naoya-ga e_i e_j ageta no]-wa Mari-∅_i ringo-∅_j mit-tu_j da.

 N.-NOM gave C-TOP M.-∅ apple-∅ 3-CL COP

 '(Lit.) It was three apples to Mari that Naoya gave.'

 (Pseudo-cleft)

Clefts in Japanese

Cleft vs. Pseudo-cleft

Syntactic differences between clefts and pseudo-clefts (Hiraiwa & Ishihara 2002, 2010):

Nominative-Genitive Conversion	NP-substitution of no	Clefting across Islands	Multiple foci	
*	*	*	ЭЮ	Cleft
OK	NO	NO	₩	Cleft Pseudo-cleft

Syntax of Japanese Clefts Hiraiwa & Ishihara (2002, 2010)

Hiraiwa & Ishihara (2002, 2010) proposed a mono-clausal analysis of clefts in Japanese:

- 1. Base structure: In-situ focus construction
- Focus movement of the focus XP(s) to Spec,FocP
- 3. Topicalization of the remnant FinP to Spec, TopP

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Syntax of Japanese Clefts

1. Base structure: In-situ focus

In-situ focus construction (a.k.a. no da sentence):

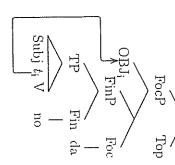
- Tensed clause
- ▶ headed by a complementizer no
- ► followed by a copula da
- Prosodically marked focus/foci
- <u>(6</u> |Finp Naoya-ga RINGO-O MITT-TU tabeta no| da. N.-NOM apple-ACC 3-CL ate C COF '(Lit.) It was that Naoya ate THREE APPLES.'

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Syntax of Japanese Clefts

- Focus movement
- Base: In-situ focus
- ► Split CP (Rizzi 1997) Comp. no: Head of FinP
- Copula da: Head of FocP
- 2. Focus Movement



1. Base structure: In-situ focus

Syntax of Japanese Clefts

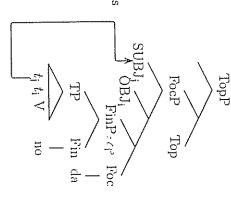
1. Base: In-situ focus

► Split CP (Rizzi 1997)

► Copula du: Head of FocP ► Comp. no: Head of FinP

Syntax of Japanese Clefts

- Focus movement
- 1. Base: In-situ focus
- ➤ Split CP (Rizzi 1997)
- ► Comp. no: Head of FinP
- ➤ Copula da: Head of FocP
- Focus Movement
- ▶ Multiple foci: Multiple Specs



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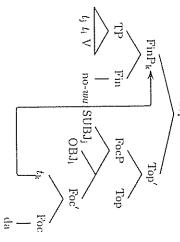
Syntax of Japanese Clefts

- 3. Topicalization of the remnant Find
- Base: In-situ focus
- Split CP (Rizzi 1997)
- ► Comp. no: Head of FinP
- Copula da: Head of FocP
- Focus Movement
- Multiple foci: Multiple Specs

3. Remnant FinP

Topicalization

- ► Topic marker una



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The Clause-Mate Condition

(Koizumi 1995). Multiple foci in clefts must be originated from the same clause

- (8) N.-NOM apple-ACC COP Naoya-ga; ringo-o; M.-NOM teacher-DAT |Mari-ga sensei-ni '(Lit.) It was Naoya, an apple that Mari told to the teacher [e_i e_j tabeta to] iituketa no]-wa ate O CTOF
- (9) *[Mari-ga e_i [Naoya-ga e_j tabeta to] iituketa no]-wa teacher-DAT apple-ACC COP sensei-ni; M-NOM '(Lit.) It was to the teacher, an apple that Mari told that N.-NOM ringo-oj da. ate Q told C-TOP

Syntax of Japanese Clefts Multiple Clefts

syntactic and prosodic structure: According the analysis above, multiple clefts have the following

- TopP rinp Naoya-ga e; e; ageta no |r-wa N.-NOM gave C-TOP gave C-TOP
- | Fac Mari-ni ringo-o M.-DAT apple-ACC 3-CL mit-tuj lk da ||
- '(Lit.) It was three apples to Mari that Naoya gave.'

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The Clause-Mate Condition

Previous Accounts

Previous accounts of the CMC:

- Koizumi (1995, 2000):
- Multiple foci are a remnant TP after the string vacuous V-to-T-to-C movement.
- $[p_{\text{inP}} \mid \text{Tr Subj} \mid \text{vp Obj} \ t_i \mid t_j \mid \text{V}_i\text{-Tj-Fin}]$
- Takano (2002):
- Multiple foci constitute a single constituent called "surprising constituent."
- [XP1 XP2; [XT1 ...]] ... ti
- "Surprising constituents" can be formed only within a

strictly prohibits multiple non-clause-mate foci. Both accounts treat the CMC as a syntactic constraint, and

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CMC Obviation

Multiple Clafts in Wh- and Yes/No-Question

If multiple foci in clefts are *wh*-phrases, or what is being asked in a Yes/No-question, the sentences are exempt from the CMC.

- (10) [Naoya-ga t_i [Mari-ga t_j nonda to] iituketa no]-wa N.-NOM M.-NOM drank C told C-TOP dare-ni_i nani-o_j na no (desu ka)?

 who-DAT what-ACC COP C COP Q

 '(Lit.) To whom; what_j is it that Naoya told t_i that Mari drank t_j?'
- (11) [Naoya-ga t_i [Mari-ga t_j nonda to] iituketa no]-wa N.-NOM M.-NOM drank C told C-TOP Yumi-ni_i wain-o_j na no (desu ka)?
 Y.-DAT wine-ACC COP C COP Q
 '(Lit.) Is it to Yumi_i, wine_j that Naoya told t_i that Mari drank t_j?'

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CMC Obviation

Multiple Clefts in Wh- and Yes/No-Question

Multiple W1- and Yes/No-Cleft (violating the CMC):

- (13) [Naoya-ga t_i [Mari-ga t_j nonda to] iituketa no]-wa
 N.-NOM M.-NOM drank C told C-TOP

 [DARE-ni_i] [NANI-o_j] na no (desu ka)?

 who-DAT what-ACC COP C COP Q

 '(Lit.) To whom_i what_j is it that Naoya told t_i that Mari drank t_i?'
- (14) [Naoya-ga t_i [Mari-ga t_j nonda to] iituketa no]-wa
 N.-NOM M.-NOM drank C told C-TOP

 [SENSEI-ni₁] [WAIN-o_j] na no (desu ka)?

 teacher-DAT wine-ACC COP C COP Q

 (Lit.) Is it to the teacher₁ wine_j that Naoya told t_i that Mari drank t_i?

CMC Obviation

Multiple Clefts in 14h- and Yes/No-Question

Hiraiwa & Ishihara (2002, 2010):

- ▶ The proposed derivation allows non-clause-mate foci, but with no restriction.
- The CMC remains unexplained
- Both *Wh* and Yes/No-questions are always accompanied by a focus prosody.
- (12) Focus prosody
- Focal Fo-rise
- Post-focal reduction

[FinP ... WH/FOC] ... Verb] no (desu ka)?

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Proposal

The CMC, and its absence in Wh- and Yes/No-questions, are due to the interaction of:

- Syntax-prosody mapping
- default prosodic phrasing for multiple clefts
- Influence of (implicit) prosody on parsing

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- Implicit Prosody Hypothesis (IPH)
- prosodic phrasing used as a cue for the comprehension of argument structure
- · intonational phrase $(\iota) = \text{domain for clause-mates}$
- Focus prosody
- focus prosody overrides the default prosody, which obliterates the CMC effect.

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Syntax-Prosody Mapping

Prosodic Hierarchy

We adopt the prosodic hierarchy proposed by Itô & Mester (2007, to appear)

- ▶ Intonational phrase (ι)
- \triangleright Phonological phrase (φ)
- a.k.a. major phrase, intermediate phrase
- Minimal φ : a.k.a. minor phrase, accentual phrase
- Prosodic word (ω)

Syntax-Prosody Mapping

Mapping Principles

obtain the prosodic structure in (18) If we apply the mapping principles to a multiple cleft in (17), we

- (17) γ_{n} Naoya-ga sensei-ni γ_{n} Mari-ga t_i t_j kabeta γ_{n} N.-NOM teacher-DAT M.-NOM drank to] iituketa no|_k-wa |_{FocP} nomiya-de_i wain-o_j - t_k da|| '(Lit.) It is wine at the bar that Naoya told the teacher that bar-LOC wine-ACC
- (18)no-wa $\{\iota(\varphi \text{ nomiya-de }(\varphi \text{ wain-o da}$ $\{{}_{\iota}(_{\varphi}$ Naoya-ga $(_{\varphi}$ sensei-ni $\{{}_{\iota}(_{\varphi}$ Mari-ga nonda to iituketa

Mapping Principles Syntax-Prosody Mapping

Two syntax-prosody mapping principles:

Phrase-level (Selkirk & Tateishi 1991): the left edge of a phonological phrase (φ) . The left edge of a syntactic phrase (XP) coincides with

$$\varphi$$
 \Rightarrow $(\varphi$

intonational phrase (ι) . otherwise) coincides with the left edge of an The left edge of a syntactic clause (FocP, if any, FinP Clause-level (Kawahara & Shinya 2008; Selkirk 2009):

(16)

 $|FocP/FinP \implies \{\iota$

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Mapping Principles Syntax-Prosody Mapping

end up with a similar \(\epsilon\)-phrasing. Note that a multiple cleft sentence violating the CMC would

- (19)* $\{r_{0pP}|_{FinP}$ Naoya-ga t_i $[p_{inP}$ Mari-ga nomiya-de t_j nonda to] N.-NOM M.-NOM bar-LOC drank C iituketa no_{lk}-wa _{|FocP} scnsei-ni_i drank t; at the bar.' '(Lit.) It is to the teacher; wine; that Naoya told t_i that Mari C -TOP teacher-DAT wine-ACC wain-oj tk da]]
- (20)no-wa $\{\iota(\varphi \text{ sensei-ni } (\varphi \text{ wain-o da}$ $\{\iota(\varphi \mbox{ Naoya-ga}\ \{\iota(\varphi \mbox{ Mari-ga}\ (\varphi \mbox{ nomiya-de nonda to iituketa}$

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Implicit Prosody Hypothesis (IPH) Influence of Prosody on Parsing

Implicit Prosody Hypothesis (IPH) (Bader 1998; Fodor 1998)

- ▶ In silent reading, an abstract prosodic structure of the sentence is projected in the grammatical representation.
- This "implicit prosody" may influence syntactic ambiguity resolution.
- Other things being equal, the parser favors the syntactic analysis associated with the most natural (default) prosodic contour for the construction.
- V If this hypothesis is on the right track, it would mean:
- that syntactic acceptability judgement of a sentence always involves projection an abstract prosodic structure of the
- that its influence on acceptability is expected even without an actual phonetic output of the sentence.

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φ -houndaries as ones for syntactic disambiguation Influence of Prosody on Parsing

In silent reading, however, no auditory cues

- According to the IPH, some kind of 'default' prosodic structure is projected, which imposes a bias toward one reading over the other.
- The parametrization of 'default' prosody is language-specific.

Influence of Prosody on Parsing

 φ -boundaries as cues for syntactic disambiguation

principles discussed above. mapped onto prosody based on the syntax-prosody mapping In production, the syntactic structure of a phrase/sentence is

- joyuu-ni natta koohai-no actress-into became junior.student-gen older.sister the older sister of the junior student who became an actress.
- ? NP2 High-attachment [RC joyuu;-ni natta] [NP1 koohai-no] oneesan;]
- Low-attachment

cues for syntactic disambiguation. In comprehension of auditory stimuli, φ -boundaries are used as

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φ-boundaries as cues for syntactic disambiguation Influence of Prosody on Parsing

Jun & Koike (2008):

- Japanese speakers produced phrases like (21) with the that in (21b). phrasing pattern in (21a) more often (about 67%) than
- They interpret them in silent reading as high-attachment more often (66%) than as low-attachment
- (21)joyuu-ni actress-into became junior.student-GEN older.sister 'the older sister of the junior student who became an actress.' natta koohai-no oneesan
- NP2 High-attachment Low-attachment [nc joyuu;-ni natta | [NP1 koohai-no | oneesan;]
- [NP2 | NP1 [RC joyuuj-ni natta] koohni_j-no] oncesan]

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Influence of Prosody on Parsing

t-boundaries as cases for the comprehension of argument structure

I propose that *t*-boundaries are also used as cues in parsing, in particular, in parsing the argument structure of clauses.

(22) Principle of Argument Structure Parsing (PASP): XPs within a single intonational phrase (*i*) are interpreted as clause-mates.

Note that the PASP predicts the following asymmetry:

(23) a. $\{_{\iota} \text{ XP YP} \implies \text{clause-mates} \}$ b. $\text{XP } \{_{\iota} \text{ YP} \implies \text{no preference} \}$

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A Prosodic Account: Summary

The CMC is due to the incompatibility between the preferred reading triggered by implicit prosody and the intended reading

- ▶ When the reader parses a sentence as a multiple cleft, the default phrasing pattern is projected.
- With this default pattern, all the foci will be phrased in a single t.
- According to the PASP, multiple foci tend to be interpreted as clause-mates.
- unless additional prosodic effects are involved

Influence of Prosody on Parsing

 $\iota ext{-boundaries}$ as cues for the comprehension of argument structure

If we apply the PASP to multiple clefts violating the CMC, the multiple foci are wrongly interpreted as clause-mates.

- *[TopP|FinP Naoya-ga ti [FinP Mari-ga nomiya-de ti nonda to] N.-NOM M.-NOM bar-LOC drank C iituketa no|k-wa |FocP sensei-ni wain-oj tk da|| told C -TOP teacher-DAT wine-ACC COP (Lit.) It is to the teacher; wine; that Naoya told ti that Mari drank ti at the bar.'
- (25) $\{\iota(\varphi \text{ Naoya-ga } \{\iota(\varphi \text{ Mari-ga } (\varphi \text{ nomiya-de nonda to iituketa no-wa } \{\iota(\varphi \text{ sensei-ni } (\varphi \text{ wain-o da}$

=> scnsci-ni and wain-o are parsed as clause-mates

Focus Prosody

14/1- and Yes/No-multiple clefts

Recall that interrogative multiple clefts are exempt from the CMC, and that they *obligatorily* exhibit a focus prosody.

- (26) [Naoya-ga t_i [Mari-ga t_j nonda to] iituketa no]-wa N.-NOM M.-NOM drank C told C-TOP

 [DARE-ni_i] [NANI-o_j] na no (desu ka)?

 who-DAT what-ACC COP C COP Q

 '(Lit.) To whom; what; is it that Naoya told t; that Mari drank t_j?'
- [Naoya-ga t_i [Mari-ga t_j nonda to] iituketa no]-wa
 N.-NOM M.-NOM drank C told C-TOP

 [SENSEI-ni_i] [WAIN-o_j] na no (desu ka)?

 teacher-DAT wine-ACC COP C COP Q

 '(Lit.) Is it to the teacher; wine_j that Naoya told t_i that Mari drank t_j?'

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Focus Prosody

Wh- and Yes/No-multiple elefts

Focus prosody in Wh- and Yes/No-multiple cleft obligatority induces additional F_0 -rises on the multiple foci, making the sentence look as if there is an ι -boundary between the two foci.

- ▶ The PASP does not apply to (29), i.e., No CMC.
- (29) $\{\iota(\varphi \text{ Naoya-ga } \{\iota(\varphi \text{ Mari-ga nonda to iituketa no-wa } \{\iota(\varphi \text{ DARE-ni})\}\}, (\varphi \text{ NANI-o}) na no (desu ka) ?$

 $\implies DARE$ -ni and NANI-o may or may not be clause-mates

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Length Effect

When the first focus is long

When the first of the multiple foci are long (e.g., contains a relative clause), the acceptability improves.

- (31) | Find Naoya-ga t_i | Find Mariga t_j nonda to ituketa no t_i Naoya-ga t_i | Mariga t_j nonda to ituketa no t_i Naoya-ga t_i | Mariga t_j nonda to ituketa no t_i Naoya-ga t_i
- a. *sensei-ni $_{\rm i}$ wain-o $_{\rm j}$ $t_{\rm k}$ da teacher-DAT wine-ACC COP
- b. $2[[pro\ itumo\ e_m\ sinraisiteiru]\ sensei_m-ni]_i\ wain-o_j\ t_k\ da$ always trust teacher-DAT wine-ACC COP ((Lit.) It is to the teacher; (he always trusts), wine; that Naoya told t_i that Mari drank t_i .

Focus Prosody

Wh- and Yes/No-multiple clefts

This overriding effect of focus prosody active even in implicit prosody, because focus prosody in questions is obligatory.

- ▶ The default prosody for (multiple) clefts obligatorily contains focus prosody.
- ▶ If it were optional, the overriding effect would not be guaranteed.

In fact, focus prosody cannot obviate the CMC if the sentence is not a question (Hiraiwa & Ishihara 2002).

*[Naoya-ga t_i [Mari-ga t_j nonda to] iituketa no]-wa N.-NOM M.-NOM drank C told C-TOP Y-DAT wine-ACC COP

'(Lit.) It is to Yumi, wine, that Naoya told t_i that Mari drank $t_j\hat{T}^i$

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Length Effect

When the first focus is long

This is because the reader tends to insert an additiona *t*-boundary after a long phrase *in the implicit prosody*.

- ► The PASP does not apply to (32), i.e., No CMC
- (31) $|_{\text{FinP}}$ Naoya-ga t_i $|_{\text{FinP}}$ Mari-ga t_j nonda to| iituketa no $|_{\text{K}}$ -wa N.-NOM M.-NOM drank C told C -TOP
- ?||pro itumo $e_{\rm m}$ sinraisiteiru| sensei_m-ni|_i wain-o_j $t_{\rm k}$ da always trust teacher-DAT wine-ACC COP '(Lit.) It is to the teacher_i (he always trusts), wine_j that Naoya told $t_{\rm i}$ that Mari drank $t_{\rm i}$.'
- (32) $\{ \iota_{(\varphi)} \text{ itumo sinraisiteiru } (\varphi \text{ sensei-ni }) \iota_{\{\iota_{(\varphi)} \text{ wain-o da}\}} \dots \text{ sensei-ni and } wain-o \text{ may or may not be clause-mates.}$

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CMC obviation: Summary

- Focus prosody in interrogatives
- The default prosody for interrogatives contains a focus
- An additional *t*-boundary blocks application of the PASP ⇒ The CMC obviation effect
- Length effect
- Λ long phrase tends to end with an ι -boundary
- This additional t-boundary blocks application of the PASP. ⇒ The CMC obviation effect
- The PASP provides an account for further phenomena.

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The CMC obviation in LD-scrambling Extension: Long-distance Scrambling

This CMC is also obviated by a focus prosody

- (35) *?Sensei-ni; wain-o; Who denaher-DAT wine-ACC nomiya-de t_1 nonda to iituketa bar-Loc drank c told |CP Naoya-ga ti |CP Mari-ga N.-NOM M.-nom
- (36)DARE-ni, NANI-0; CP Naoya-ga l; CP Nari-ga nomiya-de teacher-DAT wine-ACC by nonda to ituketa no ? "To whom, what did Naoya tell that Mari drank?" drank c told N.-NOM M.-nom bar-Loc

Extension: Long-distance Scrambling

The CMC obviation in LD-scrambling

CMC. (Hiraiwa & Ishihara 2002) The so-called long-distance (LD) scrambling also shows the

- CP Naoya-ga sensei-ni drank C told nonda to] iituketa] 'Naoya told the teacher that Mari drank wine at the bar.' N.-NOM teacher-DAT [CP Mari-ga nomiya-de wain-o M.-NOM bar-LOC wine-ACC
- (34) t_i t_j nonda to] iituketa] Nomiya-de; wain-oj [cp Naoya-ga sensei-ni bar-LOC wine-ACC drank c told N.-NOM teacher-DAT [CP Mari-ga MI.-NOM
- (35)*?Sensci-ni_i wain-o_j [cp Naoya-ga t_i |cp Mari-ga teacher-DAT wine-ACC nomiya-de t_j nonda to] iituketa] bar-Loc drank c told N-NOM M.-NOM

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Ban on LD-scrambling to a non-initial position Extension: Long-distance Scrambling

LD-scrambling cannot target a non-initial position.

- CP Naoya-ga sensei-ni N.-NOM teacher-DAT iituketa] 'Naoya told the teacher that Mari drank wine.' |CP Mari-ga wain-o M.-nom wine-ACC drank C
- (38)to] iituketa] C_told * CP Naoya-ga wain-o sensei-ni N.-NOM wine-ACC teacher-DAT |CP Mari-ga ti nonda M.-NOM drank

Extension: Long-distance Scrambling

Ban on LD-scrambling to a sentence-medial position

The Syntax-Prosody Mapping principles and the PASP predict that scrambled phrase and the matrix phrases are preferably interpreted as clause-mates.

- (38) *{CP Naoya-ga wain-o sensei-ni {CP Mari-ga t_i nonda N.-NOM wine-ACC teacher-DAT M.-NOM drank to] iituketa| C told
- (39) $(\iota$ Naoya-ga wain-o sensei-ni $(\iota$ Mari-ga nonda to iituketa

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Thank You!

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Summary

Multiple Cleft and the CMC

- ▶ No explanation in Hiraiwa & Ishihara (2002, 2010)
- CMC obviation in interrogative multiple clefts
- ► A problem for the syntactic accounts

Implicit Prosody Account

- ► Implicit Prosody Hypothesis (IPH)
- Implicit prosody affects syntactic acceptability judgements.
- Syntax-prosody mapping
- No t-boundary between multiple foci
- Principle of Argument Structure Parsing (PASP)
- ▶ With a default prosody, multiple foci of clefts are interpreted as clause-mates ⇒ CMC.
- CMC obviation caused by additional prosodic effects overriding the default prosody.
- ► Focus prosody—Wh- and Yes/No-multiple clefts
- ► Length effect—Long XP

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