

Ellipsis resistance and focus intonation in Japanese

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Introduction

- Japanese has Argument Ellipsis (AE), which directly targets grammatically required arguments such as subjects and objects (Oku 1998, Saito 2007, Takahashi 2007, a.o.).
- There are notable exceptions to AE: One case is wh-arguments (Sugisaki 2011, Ikawa 2013). With (1a-b) as its antecedents, (1c) cannot be interpreted as a wh-question:
(1) a. Taro-wa nani-o anotoki mita no? b. Furamingo-dayo
Taro-TOP what-ACC at.that.time saw Q flamingo-COP
'What did Taro see at that time?' 'Flamingos.'
c. *Zyaa, Hanako-wa Δ mita no?
then Hanako-TOP saw Q
'(Int.) Then, what did Hanako see?'
- The study argues that such items' ellipsis resistance is best explicated in the eyes of prosody, in particular, focus intonation (Ishihara 2003).
- Another aim of the study is to show that focus intonation is at work even in ellipsis sites, which offers a novel consequence for a hotly debated topic of an underlying mechanism responsible for AE, i.e., LF-Copy, PF-deletion, null pronoun, etc.

Focus Intonation in Japanese

- Focus intonation in Japanese (Nagahara 1994, Deguchi & Kitagawa 2002, Ishihara 2003, 2007, Sugahara 2003, a.o.) consists of two prosodic phenomena in (2):
(2) **Focus intonation pattern (FIP):** (Ishihara 2003: 33)
a. P(rosodic)-focalization
The F_0 peak of an element bearing FOCUS is raised (i.e., F_0 -boosting).
b. Post-FOCUS reduction
The F_0 peaks of the material after the element bearing FOCUS are lowered.
- Wh-questions in Japanese consist of a wh-phrase and its associated Q-particle (*no* or *ka*). The scope of wh-questions is syntactically determined by a Q-particle.
- F_0 peak on a wh-phrase is raised and the subsequent domain undergoes F_0 -reduction.
- Ishihara (2003) argues that the FIP prosodically functions as a wh-scope-marker on a par with Q-particles and puts forward (3):
(3) **FIP-Wh-scope Correspondence (FWC):** (Ishihara 2003: 59)
The domain of FIP corresponds to the scope of wh-question.
- (4) a. Naoya-wa [Mari-ga **nani**-o nomiya-de nonda to] imademo omotteiru **no**?
Naoya-TOP Mari-NOM what-ACC bar-LOC drank C even.now think Q
'What_i did Naoya still think that Mari drank _i at the bar?'
b. Naoya-wa [Mari-ga **nani**-o nomiya-de nonda **ka**] imademo oboeteiru
Naoya-TOP Mari-NOM what-ACC bar-LOC drank Q even.now remember
'Naoya still remembers what_i Mari drank _i at the bar.'

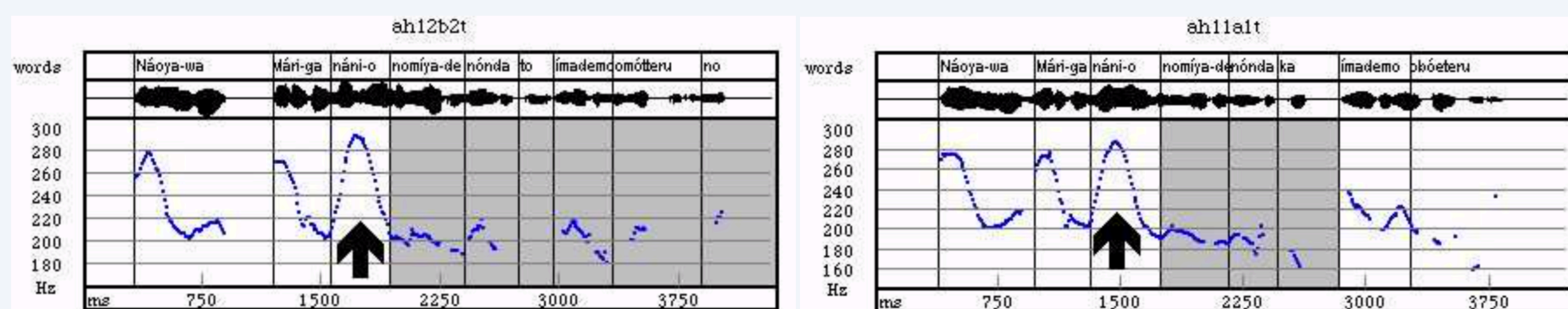


Figure 1: F_0 contour of (4a)

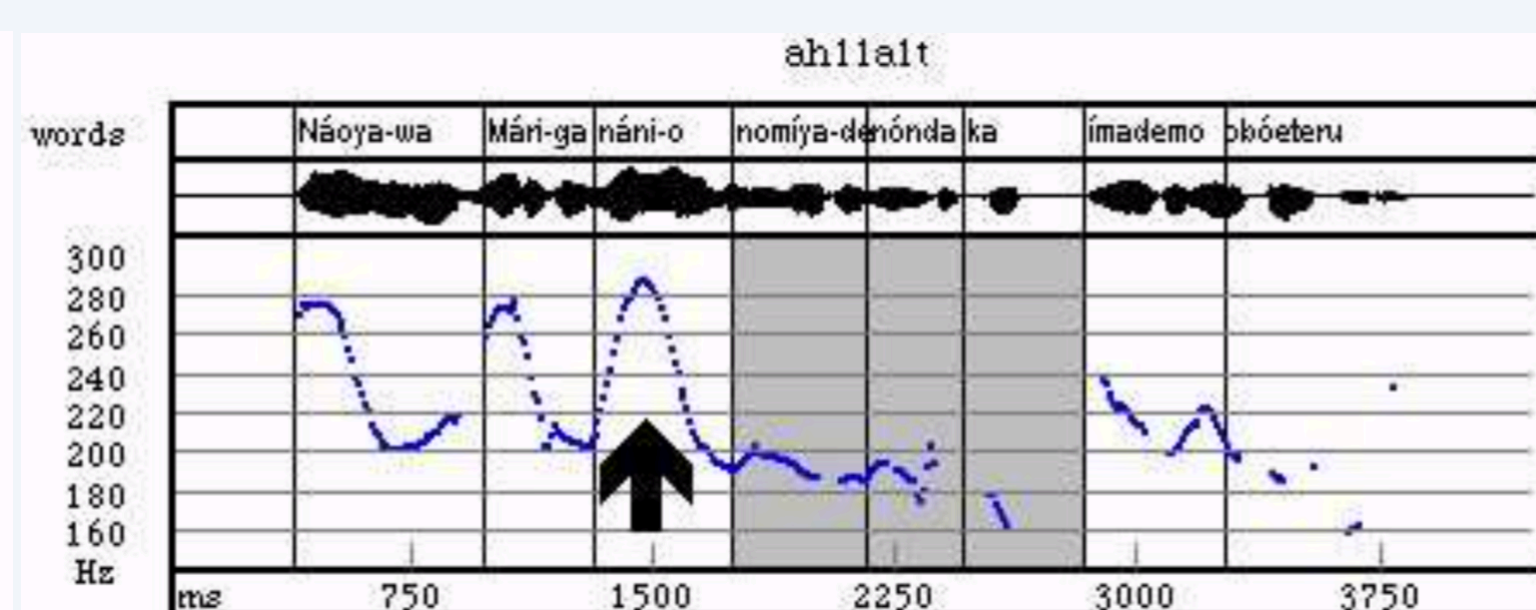


Figure 2: F_0 contour of (4b)

- Notice that Figure 2 exhibits the so-called pitch reset effect: The pitch reduction is canceled after the Q-particle *ka*, which marks the end of the wh-scope.

Claim

- Based on (3), the study puts forward the following condition:
(5) **Requirement of maintaining FIP-Wh-scope Correspondence:**
FIP-Wh-scope Correspondence (FWC) must not be disrupted.

Focus intonation meets ellipsis resistance

Wh-questions

- Wh-arguments' ellipsis intolerance (cf. (1c)) is now accounted for by (5) because the omission of *nani* 'what' destroys the FWC (3).
- The analysis predicts that ellipsis of embedded interrogative clauses like (4b) is possible because it does not run against (5) ⇒ **Right:** (6b)
(6) a. Mari-wa [Ai-ga nani-o nonda ka] anohi tazuneta
Mari-TOP Ai-NOM what-ACC drank Q that.day asked
'Mari asked that day what Ai drank.'
b. Ken-mo Δ anohi tazuneta
Ken-also that.day asked
'Ken also asked that day Δ.'
b'. *Ken-mo [Ai-ga Δ nonda ka] anohi tazuneta
Ken-also Ai-NOM drank Q that.day asked
'(Int.) Ken also asked that day what Ai drank.'
- The striking contrast between (6b) and (6b') may be similar in nature to the so-called ellipsis-as-rescue observations (cf. island-repair) (Ross 1969).

Wh ... mo constructions

- A wh-phrase, when used with a particle *-mo*, serves as an NPI (Kuroda 1965):
(7) Naoya-wa [Mari-ga nani-o nomiya-de nonda to]-mo Ai-ni iwanakatta
Naoya-TOP Mari-NOM what-ACC bar-LOC drank C-MO Ai-DAT not.said
'Naoya didn't say to Ai that Mari drank anything at the bar.'
- Ishihara (2003) observes that this construction, though different from a wh-question, exhibits focus intonation. If this is right, it is expected that ellipsis resistance kicks in when ellipsis targets a wh-phrase.
⇒ **Right:** Ikawa (2013) observes that the ellipsis is not possible:
(8) a. John-wa [Mary-ga nani-o homete mo] yorokoba-na-katta
John-TOP Mary-NOM what-ACC praise MO happy-NEG-PAST
'John was not happy no matter what Mary praised.'
b. *Bill-wa [Lucy-ga Δ homete mo] yorokoba-na-katta
Bill-TOP Lucy-NOM praise MO happy-NEG-PAST
'(Int.) Bill was not happy no matter what Lucy praised.'

-Sika-phrases

- Sika* is an NPI that occurs with negation for its licensing (Tanaka 1997).
- It is claimed that -*sika*-phrases are ellipsis-intolerant (Ikawa 2013, Mizuno 2022).
(9) a. Kinoo Ken-sika ko-na-katta b. *Kyoo-mo Δ ko-na-katta
yesterday Ken-SIKA come-NEG-PAST today-also come-NEG-PAST
'Yesterday, no one but Ken came.' '(Int.) Today, too, no one but Ken came.'
- In fact, Ishihara (2007) argues that -*sika*-phrases exhibit focus intonation. If this is right, the ungrammaticality of (9b) is a natural corollary of (5).

-Dake-phrases

- Dake* in Japanese is a non-NPI counterpart of -*sika* translated as *only*.
- Whether -*dake*-phrases can be elided is contentious (Sato 2020, Oku 2023).
- Let us see that a proper context makes it clear that the ellipsis is possible:
(10) [Mari and Ken, art trainees, were responsible for washing aprons.]
a. Mari-wa [zibun-no epuron-dake] aratta
Mari-TOP self-DAT apron-only washed
'Mari washed only her apron.'
b. Keni-mo Δ aratta.
Ken-also washed
(?* Demo, proi hoka-no-ni nanbai-mo zikan-o kaketa)
but other-GEN-DAT many.times-also time-ACC spent
'(Int.) Ken also washed Δ. But he spent many times more time on other aprons.'
- If the -*dake*-inclusive reading is possible, it yields infelicity. This is so because Ken must not have washed aprons of others when the elided object is construed as *zibun-no epuron-dake* 'only his apron'.
- In fact, no focus intonation is observed in -*dake*-phrases, aligning with the judgement in (10b) (**Figure 3**). This is naturally expected from (5).

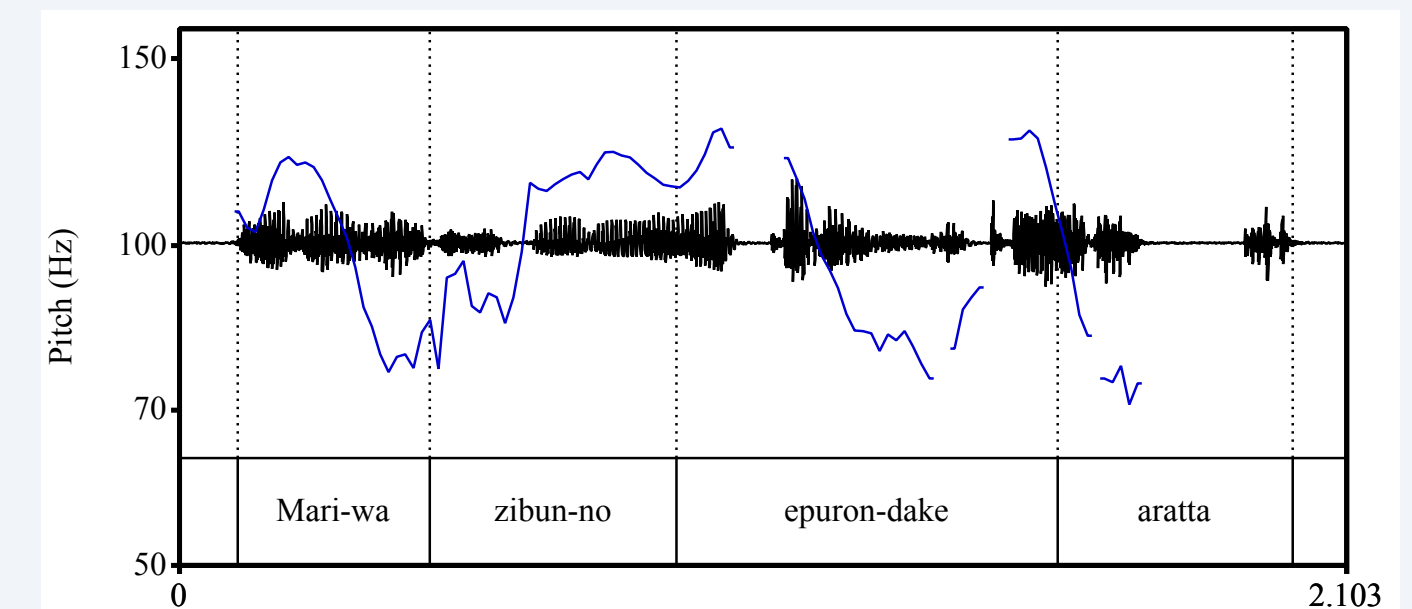


Figure 3: F_0 contour of (10a)

Ellipsis masks focus intonation

- I argue that focus intonation is at play even though the relevant domain is phonologically missing. One such example is an indirect wh-question:
(11) a. Makoto-wa [Mari-ga nani-o ie-de nonda ka] anotoki oboeteita
Makoto-TOP Mari-NOM what-ACC home-in drank Q that.time remembered
'Makoto remembered at that time what Mari drank at home.'
b. Naomi-wa Δ anotoki oboeteinakatta
Naomi-TOP that.time not.remembered
'Naomi didn't remember at that time Δ.'
- The pitch tracks of (11a-b) (**Figure 4** and **5**) show that each of the matrix adverbs *anotoki* 'that time' marks the almost parallel F_0 height (132 Hz vs. 126 Hz).
- Let us now consider (12), where focus intonation is irrelevant (i.e., declarative):
(12) a. Makoto-wa [Mari-ga nanika-o ie-de nonda to] anotoki itta
Makoto-TOP Mari-NOM something-ACC home-in drank C that.time said
'Makoto said at that time that Mari drank something at home.'

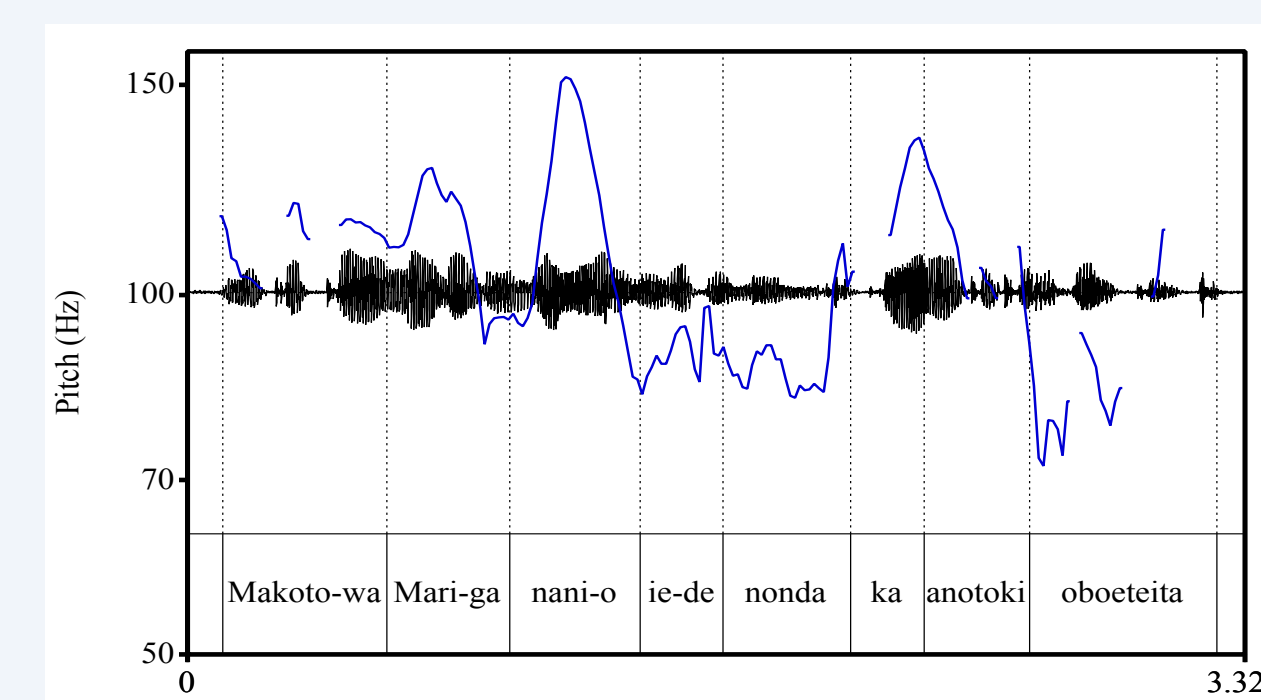


Figure 4: F_0 contour of (11a)

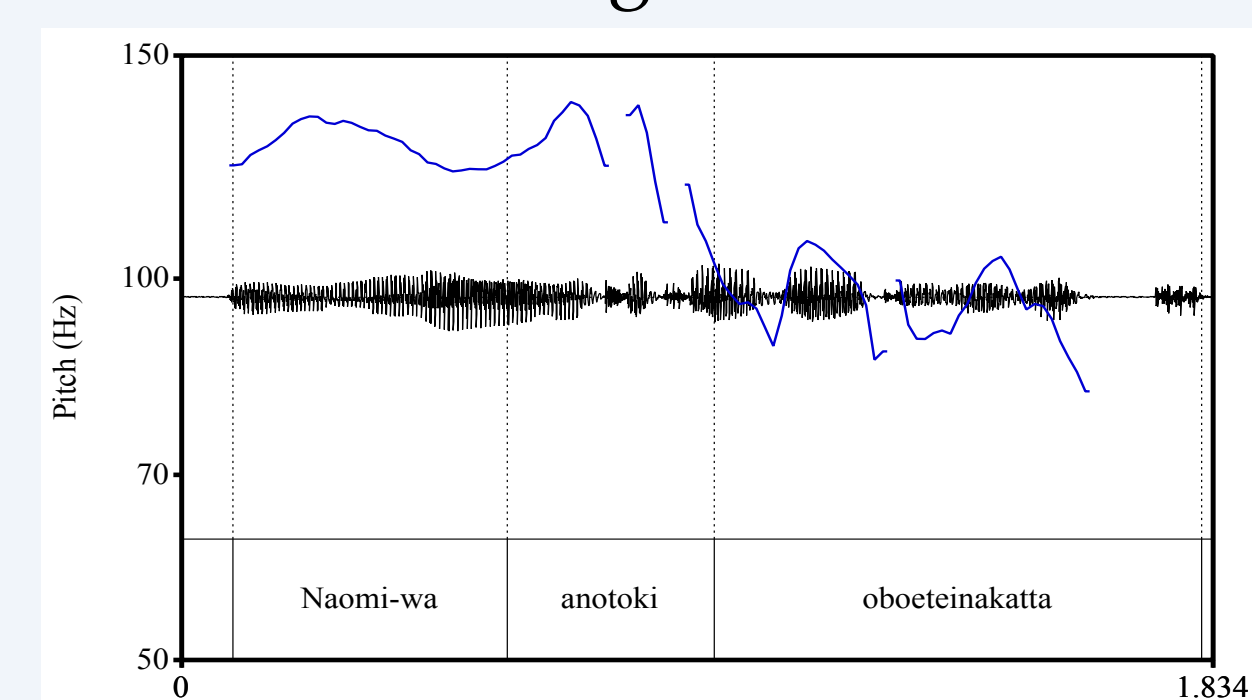


Figure 5: F_0 contour of (11b)

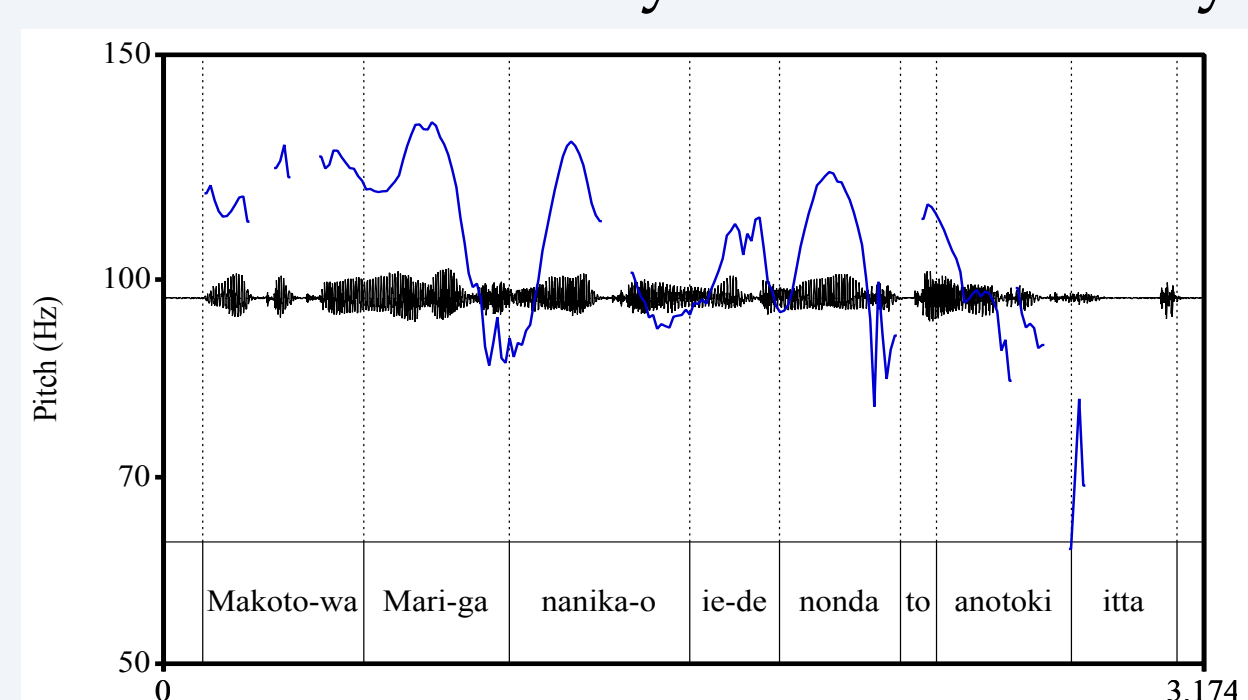


Figure 6: F_0 contour of (12a)

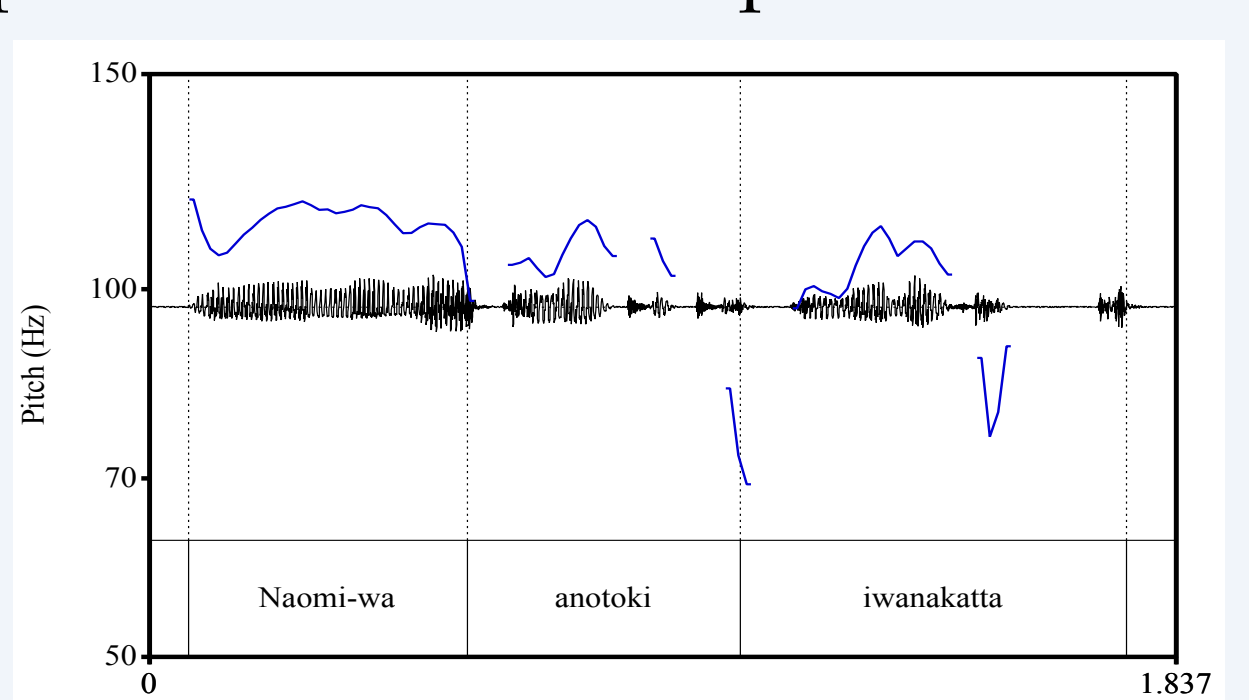


Figure 7: F_0 contour of (12b)