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### Intonation of *wh*-questions with lexically unaccented *wh*-phrases

Many studies on the intonation of *wh*-questions in Tokyo Japanese (Maekawa 1991, Ishihara 2003, Hirotsu 2005, among many others) have shown that they always exhibit a special prosody (akin to a focus prosody): an extra  $F_0$ -rise on the *wh*-phrase followed by an  $F_0$ -reduction of the post-*wh*-material.

The *wh*-phrases used in these experimental studies have always been lexically accented ones, as the core part of the *wh*-phrase such as *náni* 'what', *dáre* 'who', *ítu* 'when' contains a lexical accent. As a result, pitch contours of *wh*-questions that have been studied so far have always been subject to the phonetic and phonological effects of lexical accent on the *wh*-phrase. Therefore it still remains unclear whether a pure intonational effect of *wh*-question exists independent of phonetic and phonological effects of lexical accent.

This study investigates the intonation of *wh*-questions containing a lexically unaccented compound *wh*-phrases, such as *nani.iro* 'what.color', *nani.go* 'what.language', etc. By systematically controlling (i) the sentence type (*wh*-interrogative vs. declarative), (ii) the lexical accent of the target word (*wh*- vs. non-*wh*), and (iii) the lexical accent of the post-target word, interaction of the phonetic effects of lexical accent and those of the focus prosody triggered by *wh*-question (both on the *wh*-phrase and on the post-*wh*-phrase) are examined.

#### Sample Stimuli

- |     |            |                  |           |            |             |     |
|-----|------------|------------------|-----------|------------|-------------|-----|
| (1) | Iiyama-wa  | ai.iro-no        | enogu-ni  | oréenzi-o  | mazemasita. |     |
|     | Iiyama-TOP | indigo.color-GEN | paint-DAT | orange-ACC | mixed       |     |
| (2) | Iiyama-wa  | nani.iro-no      | enogu-ni  | oréenzi-o  | mazemasita  | ka? |
|     | Iiyama-TOP | what.color-GEN   | paint-DAT | orange-ACC | mixed       | Q   |
| (3) | Iiyama-wa  | néebii-no        | enogu-ni  | oréenzi-o  | mazemasita. |     |
|     | Iiyama-TOP | navy-GEN         | paint-DAT | orange-acc | mixed       |     |
| (4) | Iiyama-wa  | dóno.iro-no      | enogu-ni  | oréenzi-o  | mazemasita  | ka? |
|     | Iiyama-TOP | which.color-GEN  | paint-DAT | orange-ACC | mixed       | Q?  |

#### Selected References

- Hirotsu, Masako. 2005. *Prosody and LF: Processing Japanese wh-questions*. Doctoral Dissertation, University of Massachusetts, Amherst.
- Ishihara, Shinichiro. 2003. *Intonation and interface conditions*. Doctoral Dissertation, Massachusetts Institute of Technology.
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