

Recursivity and the Definition of MATCH in Italian Syntax-Prosody

Nicholas Van Handel

University of California, Santa Cruz

Early work on Italian prosody assumed Strict Layering [1, 2], and subsequent work still assumes that Italian lacks prosodic recursion [3]. I revisit three Italian processes argued to apply within the phonological phrase (φ): Word-Final Vowel Deletion (VD; *marg azzurro* → *mar_ azzurro*; [4]), Stress Retraction (SR; *partirà Giúlio* → *pártira Giúlio*), and Final Lengthening (FL; *i litigi tra amici* → *i litigi tra amiici*; [1, 2]). I show that VD is sensitive to smaller domains than FL and SR, motivating the existence of recursive φ . I argue that Match Theory [5] derives the correct outputs if and only if MATCH constraints are defined to see only XPs with a phonologically overt head [6].

In N+PP sequences like (1), VD optionally applies on the head N_1 *sapore*. [4] argues for two prosodic structures: VD applies on *sapore* in (1b) but is blocked by a φ boundary in (1c). If FL applied in the same domain, FL would be optional on N_1 in these structures. Instead, in (2b) FL only applies to the N_2 *mandorle*; FL on N_1 results in a marked structure in (2c) [2]. The two processes diverge in distribution, suggesting they apply in different domains. A similar divergence is observed in other syntactic contexts, while SR patterns with FL. Function words (D, P) are omitted from the schematization.

- | | | | |
|-----|------------------------|---|---|
| (1) | a. Syntax | TP[rimane DP[il NP[sapore PP[di DP[cioccolata]]]]] | TP[V DP[N ₁ PP[N ₂]]] |
| | b. φ -Phrasing | φ (rimane) φ (il sapor_ di cioccolata) | φ (V) φ (N ₁ N ₂) |
| | c. φ -Phrasing | φ (rimane) φ (il sapore) φ (di cioccolata) | φ (V) φ (N ₁) φ (N ₂) |
| | | ‘The taste of chocolate persists’ | |
| (2) | a. | TP[ho VP[assaggiato DP[il NP[pollo PP[colle NP[mandorle]]]]]]] | TP[V DP[N ₁ PP[N ₂]]] |
| | b. | φ (ho assaggi <u>aa</u> to) φ (il pollo colle ma <u>aa</u> ndorle) | φ (V) φ (N ₁ N ₂) |
| | c. | ? φ (ho assaggi <u>aa</u> to) φ (il poollo) φ (colle ma <u>aa</u> ndorle) | ? φ (V) φ (N ₁) φ (N ₂) |
| | | ‘I have tasted the chicken with almonds’ | |

To explain this divergence, I appeal to recursive φ and prosodic subcategories [7]: VD is sensitive to all φ , while SR and FL are sensitive to Maximal φ , those φ which are not dominated by any other φ . The structure TP[V DP[N₁ PP[N₂]]] maps to either (i) $\varphi_{\text{Max}}(\text{V}) \varphi_{\text{Max}}(\text{N}_1 \varphi(\text{N}_2))$ or (ii) $\varphi_{\text{Max}}(\text{V}) \varphi_{\text{Max}}(\varphi(\text{N}_1) \varphi(\text{N}_2))$. VD takes place in (i) but not (ii) because (i) does not have a right φ boundary after N_1 . N_1 is never final in φ^{Max} , which correctly predicts that FL does not apply to the head N_1 .

Match Theory derives the right outputs, but only if MATCH **only sees XPs with phonologically overt heads**. This is necessary to explain the prosody of ditransitives (3) and Subj+V sequences (4). If MATCHXP sees all XPs, the VP will be matched, which incorrectly predicts that NP and PP will phrase together to the exclusion of V (3c). Similarly, Subj and V will phrase together due to FP (4c). The new definition of MATCH ignores VP and FP, deriving the phrasings (3b) and (4b).

- | | | | |
|-----|---|-----|--|
| (3) | a. TP[darò _j VP[NP[libri] t _j PP[a Gianni]]] | (4) | a. FP[DP[Papà] TP[mangia]] |
| | b. $\varphi_{\text{Max}}(\text{dàro } \underline{\text{libri}}) \varphi_{\text{Max}}(\text{a Gianni})$ | | b. $\varphi_{\text{Max}}(\text{Papà}) \varphi_{\text{Max}}(\underline{\text{mángia}})$ |
| | c. $*\varphi_{\text{Max}}(\text{darò}) \varphi_{\text{Max}}(\underline{\text{libri}} \text{ a Gianni})$ | | c. $*\varphi_{\text{Max}}(\text{Pápa } \underline{\text{mángia}})$ |
| | ‘I will give books to Gianni’ | | ‘Daddy is eating’ |

This definition of MATCH is not unprecedented [6] but is a departure from [8]. While MATCH may vary across languages, Italian is yet another language that deploys recursive φ .

- [1] Nespors, M. & I. Vogel. 1986. *Prosodic Phonology*. [2] Ghini, M. 1993. *Toronto Working Papers in Linguistics*. [3] Samek-Lodovici, V. 2017. *Romance Languages and Linguistic Theory*. [4] Meinschaefers, J. 2005. *Arbeitspapier Nr. 118*. [5] Selkirk, E. 2011. *The Handbook of Phonological Theory*. [6] Truckenbrodt, H. 1999. *Linguistic Inquiry*. [7] Ito, J. & A. Mester. 2013. *Lingua*. [8] Elfner, E. 2012. Doctoral dissertation.