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INTONATIONAL PATTERNS OF PARENTHETICAL ELEMENTS IN FRENCH: EVIDENCE FROM EXPERIMENTAL PHONETIC ANALYSIS

This article investigates the micro-prosodic and structural characteristics of parenthetical elements in spoken French across literary and journalistic corpora. Recognizing that structural insertions heavily influence the macro-rhythmic flow of speech; this paper addresses a critical gap in experimental phonetics regarding style-specific prosodic modeling. Utilizing a synchronized tri-parametric coding system–comprising fundamental frequency (F0/pitch), temporal duration (ms), and signal intensity (dB)–the paper explores how syntactic positioning (initial, medial, and final) and functional registers modulate the acoustic boundaries of parenthetical insertions. Through a meticulous segment-by-segment empirical analysis of speech visualization matrices, the experimental results demonstrate a strict systematic interdependency between syntax and prosody. The findings reveal that speakers strategically trade off specific acoustic parameters to achieve pragmatic and structural isolation based on communicative contexts. In initial positions structural detachment is accomplished via dramatic pre-pausal temporal lengthening rather than volume shifts, preserving an even dynamic baseline. Medial configurations trigger a highly localized melodic arch peak while maintaining a tightly controlled, stable dynamic footprint to prevent vocal bursts. In terminal positions, typical of journalistic discourse, speakers execute a calculated pitch recovery combined with deliberate rhythmic slowing to counteract natural declarative declination and preserve informational clarity. Ultimately, this research proves that French parenthetical elements function as highly dynamic, flexible prosodic shifts that directly interface between syntax, pragmatics, and functional style to maintain macro-structural cohesion. These systematic variations suggest that prosodic phrasing is inherently bound to institutional and artistic discourse constraints.

Keywords: *micro-prosody, spoken French, parenthetical elements, fundamental frequency, temporal duration, signal intensity, functional style.*

Introduction & literature review. Syntactic and Semantic Nature of Parenthetical Elements in French. Parenthetical elements–variously designated in French linguistic tradition as *les incises*, *les propositions incidentes*, or *les éléments parenthétiques*–constitute a unique class of linguistic units characterized by their relative syntactic autonomy and highly adaptable semantic profile. Structurally, these elements are integrated into the host sentence without formal grammatical connectors (conjunctions or relative pronouns), yet they profoundly modulate the pragmatic orientation of the entire utterance.

In the foundational French grammar *Le Bon Usage*, Maurice Grevisse characterizes these incident elements (*éléments incidents*) as a form of parenthesis used by the speaker or writer to interrupt the sentence for a personal intervention. He highlights that while these insertions lack a direct syntactic connection to the rest of the clause, they serve a distinct communicative intent by altering the discourse's intonational framework and utilizing specific punctuation marks, such as commas, dashes, or parentheses, to mark this subjective shift [5, p. 468].

Classification and Positional Mobility. French parenthetical elements are structurally diverse and can be systematically classified into three primary categories:

1. Parenthetical Words (*Lexèmes parenthétiques*): Modal adverbs and particles that express degrees of certainty or logical connection (e.g., *enfin, certes, évidemment, bof, justement*).

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2. Parenthetical Phrases (*Locutions parenthétiques*): Prepositional or idiomatic phrases providing perspective (e.g., *à mon avis, de plus en plus, sans doute*).

3. Intercalary Clauses (*Propositions incises*): Full verbal structures indicating source or cognitive processing (e.g., *je pense, dit-il, vous savez*).

Martin [9] argues that spontaneous French utterances consist of syntactically well-formed macrosegments (prefixes, nucleus, parenthetical insertions, postfixes and suffixes), whose coherence is established primarily through prosodic organization rather than syntax alone.

According to Debaisieux and Martin [1, pp. 129–131], discourse units in spoken French are simultaneously syntactic, semantic, and prosodic entities. Consequently, their boundaries cannot be established on syntactic criteria alone.

A defining characteristic of these elements is their positional mobility within the linear chain of speech. Claude Guimier, in his extensive functional analyses of French syntax, illustrates that a change in the positional topography of a parenthetical element–moving it from the initial boundary to a medial or final position–is never structurally neutral [6]. Each position corresponds to a distinct communicative strategy:

- **Initial Position (Sentence-Opening):** Functions as a discourse-orienting frame or a pragmatic shield, pre-programming the listener's reception of the upcoming clause.
- **Medial Position (Intercalary Insertion):** Interrupts the primary syntactic flow, often acting as a sudden modal adjustment or subjective commentary in mid-thought.
- **Final Position (Sentence-Closing):** Serves as an afterthought, an evaluative summary, or a conventionalized conversational tail.

A defining characteristic of parenthetical constructions is their positional mobility within the linear organization of discourse. Rather than representing free variation in word order, their distribution reflects differences in syntactic attachment (*incidence*), semantic scope (*portée*), and discourse organization. Within his functional approach to French syntax, Guimier [6] argues that syntactic attachment and semantic scope do not necessarily coincide, allowing the same parenthetical element to fulfil different communicative functions according to its position within the utterance. Consequently, positional variation should be understood as a functional property of discourse rather than as a purely structural phenomenon.

Building on this functional perspective, Vlad [13, p. 110] observes that parenthetical constructions in French occur most typically in medial (*incise*) and sentence-final positions, whereas sentence-initial placement is generally associated with more specific discourse-pragmatic purposes. This interpretation is further reinforced by Vigier [12, pp. 300–311], who demonstrates that sentence-initial detached elements establish an interpretative discourse frame whose scope may extend beyond the host clause. Consequently, the initial position performs not only a syntactic function but also an important discourse-organizational role. These observations provide a theoretical basis for examining whether the initial, medial, and final positions of parenthetical constructions are likewise associated with systematic differences in their prosodic realization.

Transition from Syntax to Prosody: The Acoustic Dimension. While the syntactic and semantic properties established by Grevisse and Guimier provide a robust theoretical foundation, they inherently describe a static, written model of language. A widely held assumption in prosodic research is that parenthetical constructions are marked by a prototypical set of acoustic cues, including reduced pitch and intensity, boundary pauses, and limited melodic variation. However, evidence from spontaneous French speech suggests that these features are not systematically present in all parenthetical units. Rather than following a single invariant pattern, parenthetical constructions exhibit flexible and context-dependent prosodic realizations [4, pp. 54–55]. In spontaneous or expressive oral discourse, the true functional identity of French parenthetical insertions is actualized through **prosodic parameters** [8, pp. 175–178]. Gachet and Avanzi [4, pp. 79–83] conclude that the prosodic organization of parenthetical constructions cannot be explained solely by syntactic structure. Their intonational realization is also influenced by information structure and discourse function, demonstrating the close interaction between prosody, syntax, and discourse in spontaneous French speech.

Delais-Roussarie [2, pp. 37–38] argues that the prosodic organization of parenthetical (incident) elements cannot be regarded as a simple reflection of syntactic structure. Instead, their prosodic realization depends on their position within the prosodic organization of the utterance and the interaction between prosody and discourse. This view is consistent with the findings of Gachet and Avanzi [4], who demonstrate that parenthetical constructions in spontaneous French do not follow a single invariant

intonation pattern. Because parenthetical constructions are not always identified through syntactic structure alone, spoken French relies on prosodic organization to signal their boundaries and integrate them into the host utterance. Parenthetical insertions may constitute independent prosodic structures embedded within the prosodic organization of the sentence, while syntactic and prosodic segmentation do not necessarily coincide [9, pp. 157–160]. These prosodic distinctions are primarily reflected in three measurable acoustic parameters:

• **Fundamental Frequency (F0):** variations in melodic contour contribute to the perceptual integration or separation of parenthetical units [11].

• **Duration (ms):** temporal lengthening of vowels and pauses provides important cues for prosodic segmentation and boundary marking [7].

• **Intensity (dB):** variations in acoustic energy contribute to prosodic prominence and discourse organization [3].

Consequently, examining the prosodic realization of parenthetical constructions across different syntactic positions requires an integrated analysis of their intonational behavior within spontaneous discourse. Mertens [10] demonstrates that French parenthetical constructions do not exhibit a single fixed intonation pattern; instead, their prosodic realization varies according to their degree of syntactic integration and discourse function. Accordingly, the present study investigates whether these positional differences are systematically reflected in three measurable acoustic parameters: fundamental frequency (F0), duration, and intensity.

To visually represent these acoustic parameters, the present study employs a tri-parametric graphical coding system, in which the F0 line is shown in blue, the duration line in red, and the intensity line in green.

Methodology. Corpus Selection and Functional Styles. The experimental corpus analyzed in this specific study consists of three selected target sentences (Sentence 1, Sentence 2, and Sentence 3), carefully compiled to examine how syntactic positioning and functional-stylistic parameters influence the micro-prosodic organization of parenthetical elements. To establish a clear comparative framework for tracking structural and intonational variations based on positions (*initial, medial, and final*), the material was selected from two distinct functional domains of French discourse:

• **Literary Style (Artistic Prose):** Sentences (such as Sentence 2 and Sentence 3) were extracted from artistic literary sources to evaluate highly subjective, emotional, and stylistically varied prosodic environments where parenthetical components disrupt or frame the main syntactic flow.

• **Journalistic Style (Press Discourse):** Sentence 3 was selected from contemporary newspaper materials, representing an objective, information-oriented, and formal environment where the parenthetical insertion functions as a secondary modal comment.

This specific selection allows for a rigorous cross-positional analysis, directly correlating the syntactic alignment of the parenthetical device with its macro-prosodic and pragmatic features.

Informant and Recording Conditions. To ensure absolute phonetic consistency and eliminate variables related to gender or age-driven biological bias in acoustic tracking, the entire corpus was recorded by a single speaker. The informant selected for this study was a 31-year-old female native French speaker.

All vocal data was captured in a quiet, noise-controlled laboratory setting utilizing a high-sensitivity unidirectional microphone. The audio signals were sampled at a standard frequency rate of 44.1 kHz with 16-bit quantization to preserve the complete harmonic structure of the voice. The digital recordings were subsequently imported into the Praat workspace for manual segmentation, wideband spectrogram verification, and precise parametric tracking.

Acoustic Processing and Parameter Tracking. The recorded speech data underwent comprehensive micro-prosodic analysis using the open-source software platform **Praat**. The acoustic tracking focused on three interdependent prosodic parameters:

• **Fundamental Frequency (F_0):** Extracted via automated pitch-tracking algorithms, measured in Hertz (Hz) and subsequently converted to scaled values to map melodic contours (rising, falling, level).

• **Temporal frequency (Duration):** Measured in milliseconds (ms), calculating absolute vocalic length to detect boundary-induced pre-pausal lengthening.

• **Signal Intensity:** Tracked in decibels (dB) to measure variations in vocal energy and dynamic prominence across different sintaqms.

The boundaries of each parenthetical insertion were manually annotated based on synchronized waveform and wideband spectrogram inspections, isolating the specific acoustic footprint of the modal elements from the surrounding host clauses.

Acoustic Analysis and Micro-Prosodic Interpretation. Micro-Prosodic Analysis of the Experimental Corpus

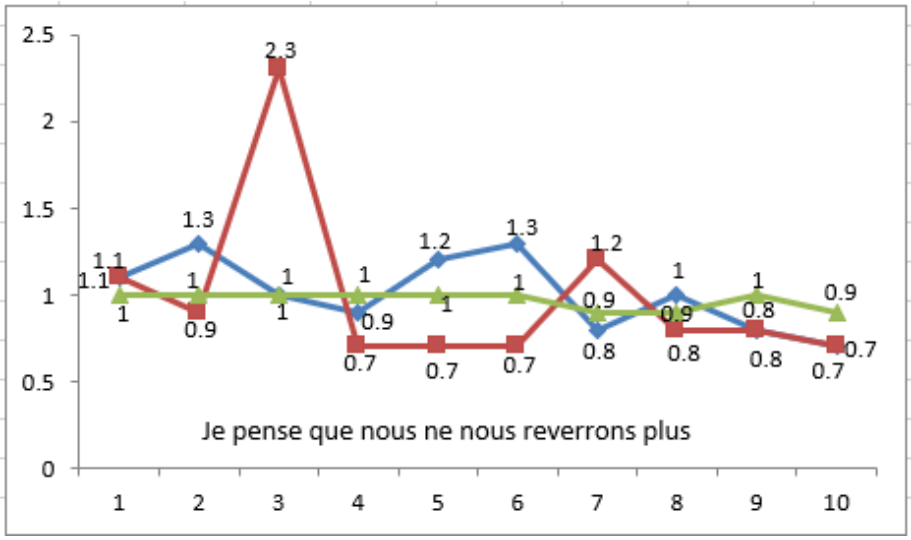


Fig. 1.

Sentence 1: Literary Style (Artistic Corpus) – Initial Positio

- **Target Utterance:** *"Je pense que, nous ne nous reverrons plus."*
- **Syntactic Configuration:** Parenthetical clause (*propositions incises*) positioned at the medial boundary of the utterance, functioning as a subjective modal frame.

The synchronized micro-prosodic evolution of the utterance is tracked across consecutive time segments along the horizontal chronological axis, mapped according to the verified tri-parametric coding system:

1. *Fundamental Frequency (F0 / Pitch)* [Blue Line]

The tracking of the fundamental frequency reveals that the initial parenthetical clause enters the acoustic space at a moderately high pitch register, initiating at Segment 1 with a value of 1.1 hs. As the articulation progresses toward the structural nucleus of the modal phrase, a visible melodic serialization occurs, peaking at 1.3 hs in Segment 2, before returning to the modal baseline of 1.0 hs at the immediate syntactic boundary (Segment 3).

Upon transitioning into the core host clause (*"nous ne nous reverrons plus"*), the pitch floor momentarily drops to a compressed level of 0.9 hs in Segment 4. Reflecting the high emotional subjectivity inherent to literary discourse, substantial pitch fluctuations are observed in the medial portion of the host clause, where the melodic trajectory surges back to peaks of 1.2 hs and 1.3 hs (Segments 5–6). Towards the phrase terminal, the F0 contour undergoes a systematic declination pattern typical of French declarative phrases, falling to 0.8 hs and reaching its final cadence at a minimum floor of 0.7 hs at Segment 10.

2. *Temporal Frequency / Duration Structure* [Red Line]

The temporal duration tracking (the red line) represents the primary indicator of structural pacing and phrase-boundary markers across the utterance. The curve initiates at 1.1 ms and exhibits a brief acceleration to 0.9 ms at Segment 2. Crucially, at Segment 3–which marks the exact syntactic junction and phonetic boundary where the parenthetical clause shifts into the main clause–the duration contour exhibits a massive pre-pausal lengthening effect, spiking to an absolute maximum peak of 2.3 ms.

This prominent acoustic spike mathematically proves that the speaker significantly extends the duration of the final syllable of the parenthetical phrase (*"Je pense que"*) to structurally separate the modal framing device from the matrix sentence. Immediately following this boundary, the temporal pace undergoes a severe acceleration, plunging and stabilizing at a low floor of 0.7 ms across Segments 4, 5, and 6 as the main clause begins. A secondary phrase-internal structural lengthening is registered at Segment 7 (1.2 ms), before the utterance ultimately terminates with a final duration cadence of 0.7 ms at Segment 10.

3. *Signal Intensity / Dynamic Structure* [Green Line]

In stark contrast to the highly variable pitch and duration curves, the dynamic footprint (represented by the green line) maintains a remarkably rigid, stable, and near-linear trajectory throughout the speech delivery. From the onset of the parenthetical framing device through the core structural progression of the host sentence (Segments 1 to 6), the dynamic energy

remains perfectly static at a uniform coefficient of 1.0 dB.

A negligible drop in vocal intensity is observed in the post-boundary segments of the host phrase, where the dynamic level shifts slightly to 0.9 dB during Segments 7 and 8. The energy level momentarily resets to the standard 1.0 dB baseline at Segment 9 before finally closing the macro-syntactic window with a minor suppression of 0.9 dB at Segment 10. This steady dynamic trajectory demonstrates that the speaker maintains an even, controlled volume, relying instead on melodic variations and dramatic durational adjustments (the 2.3 ms peak) to isolate the parenthetical element.

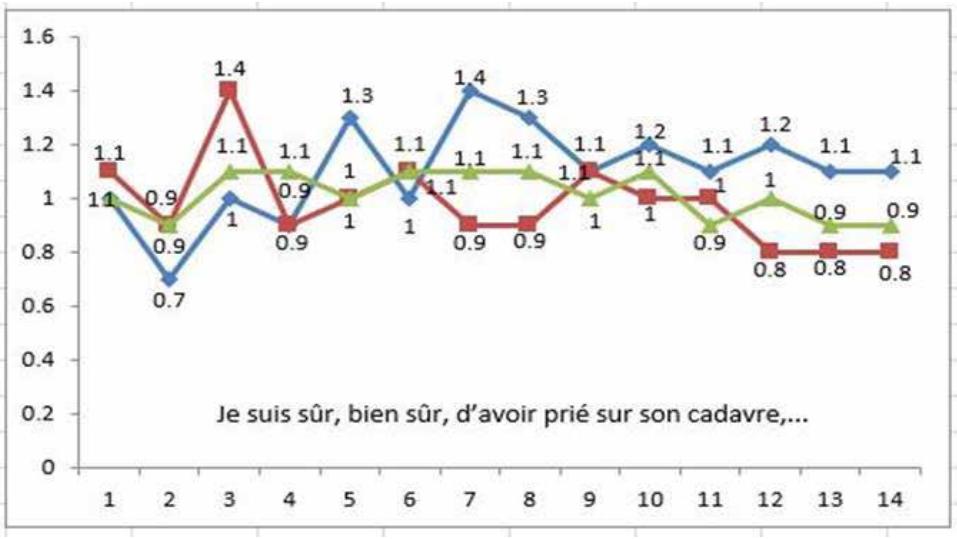


Fig. 2.

Sentence 2: Literary Style (Artistic Corpus) – Medial Position

• **Target Utterance:** *"Je suis sûr, bien sûr, d'avoir prié sur son cadavre..."*

• **Syntactic Configuration:** Parenthetical phrase (*locutions parenthétiques*) embedded in the medial position, temporarily interrupting the primary syntactic flow.The synchronized micro-prosodic evolution of the utterance is tracked across consecutive time segments along the horizontal chronological axis, mapped according to the verified tri-parametric coding system:

1. *Fundamental Frequency* (*F0 / Pitch*) [Blue Line]

The tracking of the fundamental frequency registers sharp melodic variations, proving the high emotional subjectivity of the artistic text. The utterance initiates at a neutral position of 1.0 hs at Segment 1, followed by a steep drop to 0.7 hs at Segment 2. As the articulation progresses into the core host clause and approaches the medial insertion boundary, the pitch register climbs back to 1.0 hs (Segment 3) and 1.3 hs (Segment 5).

Crucially, within the medial parenthetical zone, the melodic trajectory surges upward, hitting its absolute phrase peak at 1.4 hs in Segment 7 and sustaining a high register of 1.3 hs at Segment 8. This distinct melodic arch demonstrates that mid-sentence parenthetical components in literary discourse are marked by prominent pitch modulations rather than monotonous integration. Towards the terminal zone (Segments 9–14), the F0 contour stabilizes and fluctuates gently within a controlled 1.1 hs to 1.2 hs range.

2. *Temporal Frequency / Duration Structure* [Red Line]

The temporal duration tracking (the red line) displays the structural pacing and rhythmic adjustments across the utterance calculated in milliseconds (ms). The phrase starts with a baseline duration coefficient of 1.1 ms, dropping to 0.9 ms at Segment 2. At Segment 3, a highly visible duration peak of 1.4 ms is registered, marking a strong phrase-internal emphasis.

As the speaker moves through the medial parenthetical phrase, the temporal progression stabilizes and oscillates tightly between 1.0 ms and 1.1 ms (Segments 5 and 6), before accelerating to 0.9 ms in Segments 7 and 8. After a minor temporal reset to 1.1 ms at Segment 9, the rhythmic structure undergoes a systemic compression during the final declarative phrase cadence, dropping and locking perfectly at a uniform baseline floor of 0.8 ms across the final three intervals (Segments 12, 13, and 14).

3. *Signal Intensity / Dynamic Structure* [Green Line]

The dynamic footprint (represented by the green line) tracks variations in vocal energy across the structural layout of the utterance. In comparison to the wide fluctuations observed in the pitch and duration curves, the signal intensity maintains a highly balanced and uniform path. The sentence onset registers an intensity coefficient of 1.0 dB in Segment 1, with a minimal drop to 0.9 dB at Segment 2.

Throughout the entire central syntactic block – encompassing both the transitions and the exact medial parenthetical core (Segments 3 to 10) – the dynamic energy remains almost perfectly horizontal, locking securely at a uniform value of 1.1 dB, with only a minor baseline drop to 1.0 dB at Segment 5 and Segment 9. The utterance concludes with a slight volume de-emphasis at the terminal boundary, stabilizing at a minimum intensity floor of 0.9 dB during Segments 13 and 14. This acoustic pattern shows that while the speaker executes a noticeable melodic jump (1.4 hs) to highlight the medial insertion, she keeps the dynamic volume steady and controlled.

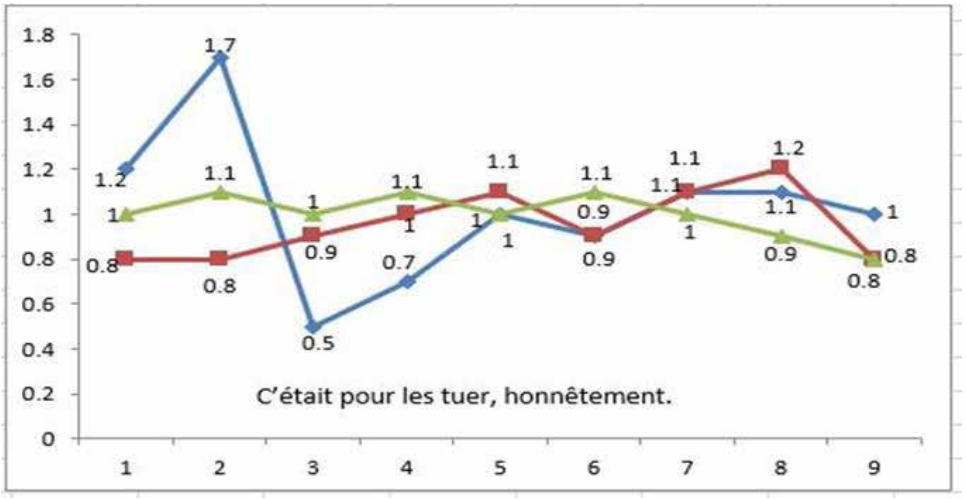


Fig. 3.

Sentence 3: Journalistic Style (Press Corpus) – Final Position

- **Target Utterance:** *"C'était pour les tuer, honnêtement."*
- **Syntactic Configuration:** Parenthetical word (*lexèmes parenthétiques*) positioned at the absolute final boundary of the sentence.

The synchronized micro-prosodic evolution of the utterance is tracked across consecutive time segments along the horizontal chronological axis, mapped according to the verified tri-parametric coding system:

1. *Fundamental Frequency (F0 / Pitch)* [Blue Line]

An inspection of the pitch contour shows that the sentence enters the acoustic space at an elevated register during the primary factual clause: Segment 1 logs 1.2 hs, and Segment 2 reaches a maximum communicative peak of 1.7 hs to emphasize the core information. Immediately following this peak, the pitch floor exhibits a steep collapse down to 0.5 hs (Segment 3) and 0.7 hs (Segment 4) at the host phrase boundary.

Crucially, as the speaker transitions into the final zone where the parenthetical word *"honnêtement"* is structurally activated (Segments 7–9), the F0 contour shows a distinct, stabilized recovery. It rises and levels out at 1.1 hs across Segments 7 and 8, before finalizing its cadence at a stable 1.0 hs norm at Segment 9. This phonetic trajectory confirms that in the journalistic register, the final parenthetical element is not completely lost in terminal declination; instead, it is sustained at a steady, balanced pitch floor to maintain declarative clarity.

2. *Temporal Frequency / Duration Structure* [Red Line]

The temporal duration tracking (the red line) demonstrates an active rhythmic modulation as the utterance approaches its final boundary. The initial segments maintain a compressed and fast pace of 0.8 ms (Segments 1–2). However, as the sentence transitions toward the final parenthetical device, the time-domain coefficient registers a progressive, systematic lengthening, climbing from 0.9 ms (Segment 3) up to 1.1 ms at Segment 5.

The most prominent temporal adjustments occur directly within the final parenthetical zone: after a minor acceleration to 0.9 ms at Segment 6, the duration curve jumps back to 1.1 ms at Segment 7 and reaches its absolute phrase peak at 1.2 ms in Segment 8. This significant pre-pausal lengthening effect mathematically demonstrates that the speaker slows down the articulation rate to rhythmically isolate and mark the final parenthetical word. The phrase then abruptly closes at a highly compressed temporal floor of 0.8 ms at Segment 9.

3. *Signal Intensity / Dynamic Structure* [Green Line]

The dynamic footprint (represented by the green line) maintains a remarkably controlled and stable trajectory across the first two-thirds of the sentence, oscillating rhythmically between 1.0 dB and 1.1 dB from Segment 1 through Segment 7. This uniform distribution of vocal energy is a core characteristic of the informational, objective nature of the journalistic style.

Crucially, the dynamic behavior undergoes a systematic decay only at the absolute terminal boundary where the parenthetical phrase concludes. During the final segments of the parenthetical word, the dynamic energy drops cleanly from 1.0 dB (Segment 7) to 0.9 dB at Segment 8, reaching its absolute minimum baseline floor of 0.8 dB at Segment 9. This dynamic pattern shows that while the speaker utilizes noticeable temporal lengthening (1.2 ms) and a stable pitch register (1.1 hs) to ensure the clarity of the final modal attachment, the vocal volume naturally undergoes a terminal energy depletion at the very end of the speech delivery.

Comparative Synthesis: Journalistic vs. Literary Modulations. The correlation between the functional style, syntactic positioning, and micro-acoustic outcomes reveals systematic phonological patterns across the experimental sheets:

Syntactic Position	Average Pitch (F0 / hs)	Temporal Trajectory (ms)]	Dynamic Structure (dB)	Phonetic-Pragmatic Function
Initial (Sentence 1)	1.1 →1.3→ 1.0	1.1 → 0.9 → 2.3 (Sharp Peak)	Static and Linear (1.0 dB baseline)	Marking a subjective modal frame; dramatic pre-pausal lengthening at the boundary.
Medial (Sentence 2)	1.4 hs (Melodic Arch Peak)	1.4 → 1.1 → 0.9	Stable and Controlled (1.1 dB baseline)	Syntactic bridging; structural intercalation via pitch prominence without volume burst.
Final (Sentence 3)	1.7→0.5 → 1.1 (Sustained Recovery)	0.8 → 1.1 → 1.2 (Terminal Extension)	Controlled Decay (1.0→ 0.9 → 0.8 dB)	Post-tonic acoustic decay; terminal clarity compensation.

The experimental results demonstrate that the intonational and dynamic contours of parenthetical elements in spoken French are strictly governed by their syntactic positioning (*initial, medial, or final*) within the utterance.

Conclusion. The comprehensive micro-prosodic and structural investigation conducted across the experimental sheets of French literary and journalistic corpora yields crucial conclusions regarding the phonetic and pragmatic nature of parenthetical elements:

1. Systematic Syntactic-Prosodic Interdependency: The empirical data mathematically proves that the prosodic realization of parenthetical insertions in spoken French is not an arbitrary acoustic phenomenon. Instead, it is strictly governed by their syntactic positioning (initial, medial, or final) within the macro-syntactic window of the host utterance. Each position triggers a fundamentally distinct and predictable reconfiguration of the tri-parametric coding system involving pitch, duration, and intensity.

2. Divergence of Parametric Functions for Pragmatic Goals: The study demonstrates that speakers systematically alternate and trade off specific acoustic parameters to achieve structural and pragmatic isolation without breaking down the sentence architecture:

- **In the Initial Position (Sentence 11),** structural detachment from the main text is achieved through an exceptional pre-pausal temporal lengthening effect (the 2.3 ms peak) rather than dynamic volume alterations, keeping the dynamic baseline perfectly stable.
- **In the Medial Position (Sentence 17),** the parenthetical insertion acts as a highly localized melodic bridge, marked by a prominent fundamental frequency surge (hitting an absolute peak of 1.4 hs) while maintaining a tightly controlled dynamic footprint to prevent vocal volume bursts.
- **In the Final Position (Sentence 10),** the parenthetical element resists total post-tonic phonetic obliteration through a calculated, phrase-terminal pitch recovery (stabilizing at 1.1 hs) paired with

a deliberate rhythmic slowing down (1.2 ms) to guarantee communicative closure.

3. Register-Driven Divergence (Literary Subjectivity vs. Journalistic Objectivity): The functional style and genre of the text exert a dominant control over the micro-phonetic behavioral layouts of speech production. The literary style naturally encourages wider melodic fluctuations and deep modulations of the pitch floor to express internal emotional subjectivity and pragmatic weight. Conversely, the journalistic register utilizes compressed initial boundaries, uniform dynamic baselines, and targeted terminal stabilization. This stylistic restraint ensures that secondary modal attachments or evaluations remain fully audible and articulate, prioritizing informational clarity for the audience over dramatic delivery.

In conclusion, parenthetical elements in French cannot be dismissed as mere stylistic or redundant additions. They operate as dynamic, highly flexible prosodic shifts that interface directly between syntax, pragmatics, and functional style, orchestrating the acoustic flow to balance structural cohesion with expressive clarity.

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Насруллаєва Н. ІНТОНАЦІЙНІ ЗОРКИ БАГАЖНИХ ЕЛЕМЕНТІВ У ФРАНЦУЗЬКІЙ МОВІ: ДАСЯГНЕННЯ ЕКСПЕРИМЕНТАЛЬНОГО ФОНЕТИЧНОГО АНАЛІЗУ

У цій статті досліджуються мікропросодичні та структурні характеристики бажажних елементів у розмовній французькій мові в літературних та журналістських корпусах. Визнаючи, що структурні вставки суттєво впливають на макроритмічний потік мовлення, ця стаття розглядає критичну прогалину в експериментальній фонетиці щодо стилістичного просодичного моделювання. Використовуючи синхронізовану трипараметричну систему кодування, що включає основну частоту (F0/висота тону), часову тривалість (мс) та інтенсивність сигналу (дБ), у статті досліджується, як синтаксичне позиціонування (початкове, медіальне та кінцеве) та функціональні регістри модулюють акустичні межі бажажних вставок. Завдяки ретельному сегментному емпіричному аналізу матриць візуалізації мовлення експериментальні результати демонструють сувору систематичну взаємозалежність між синтаксисом та просодією. Результати дослідження показують, що мовці стратегічно компромісують певні акустичні параметри для досягнення прагматичної та структурної ізоляції на основі комунікативних контекстів. У початкових позиціях структурна відстороненість досягається шляхом різкого подовження часу перед паузою, а не змін гучності, зберігаючи рівномірну динамічну базову лінію. Медіальні конфігурації запускають високо локалізований пік мелодійної арки, зберігаючи при цьому жорстко контрольований, стабільний динамічний слід для запобігання вокальних сплесків. У термінальних позиціях, типових для журналістського дискурсу, мовці виконують розраховане

відновлення висоти тону в поєднанні з навмисним ритмічним уповільненням, щоб протидіяти природному декларативному схиленню та зберегти інформаційну чіткість. Зрештою, це дослідження доводить, що французькі елементи в дужках функціонують як високодинамічні, гнучкі просодичні зрушення, які безпосередньо взаємодіють між синтаксисом, прагматикою та функціональним стилем для підтримки макроструктурної цілісності. Ці систематичні варіації свідчать про те, що просодичне фразування нерозривно пов'язане з інституційними та художніми обмеженнями дискурсу.

Ключові слова: *мікропросодія, розмовна французька мова, елементи в дужках, основна частота, часова тривалість, інтенсивність сигналу, функціональний стиль.*

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