

# Report

Project: 1958\_Augusto Camacho/Adeus a Coimbra

Key (Global - All Beats): ('gb', 'min')

Key (Section 2 Only): ('gb', 'min')

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Computed median BPM: 61.29

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Beat-Synchronized HCF:

Pearson Correlation Coefficient (R): 0.5350

R-squared (R<sup>2</sup>): 0.2862

P-value: 0.0000

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Frame-Level HCF:

Pearson Correlation Coefficient (R): 0.0420

R-squared (R<sup>2</sup>): 0.0018

P-value: 0.0000

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Beat-Synchronized Chroma Comparison:

Pearson Correlation Coefficient (R): 0.6004

R-squared (R<sup>2</sup>): 0.3604

P-value: 0.0000

Sum of Absolute Differences: 472.0319

Sum of Squared Differences: 239.7695

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Sensory Dissonance and Tonal Dissonance:

Pearson Correlation Coefficient (R): 0.0679

R-squared (R<sup>2</sup>): 0.0046

P-value: 0.3933

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Tonal Dispersion (Audio vs. Ground Truth):

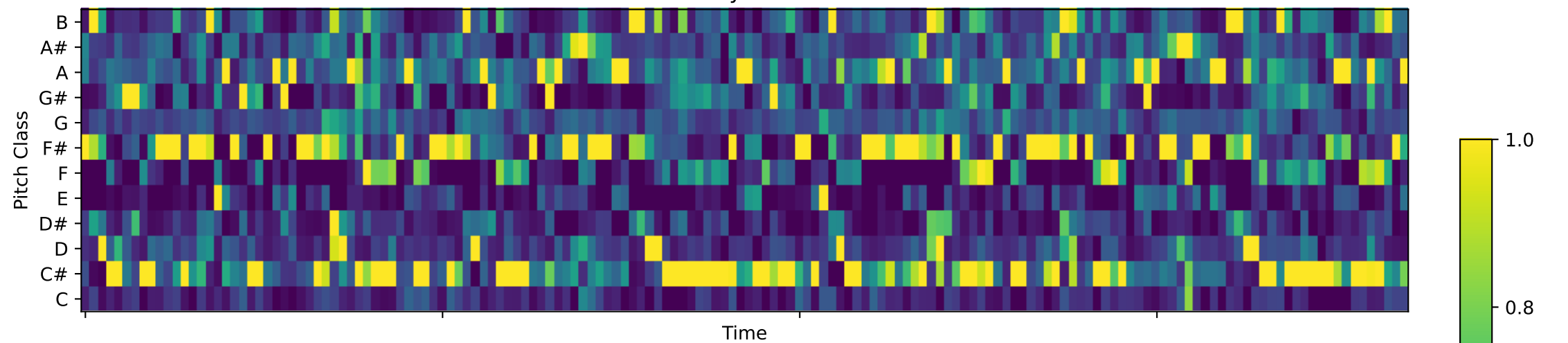
Pearson Correlation Coefficient (R): 0.5374

R-squared (R<sup>2</sup>): 0.2888

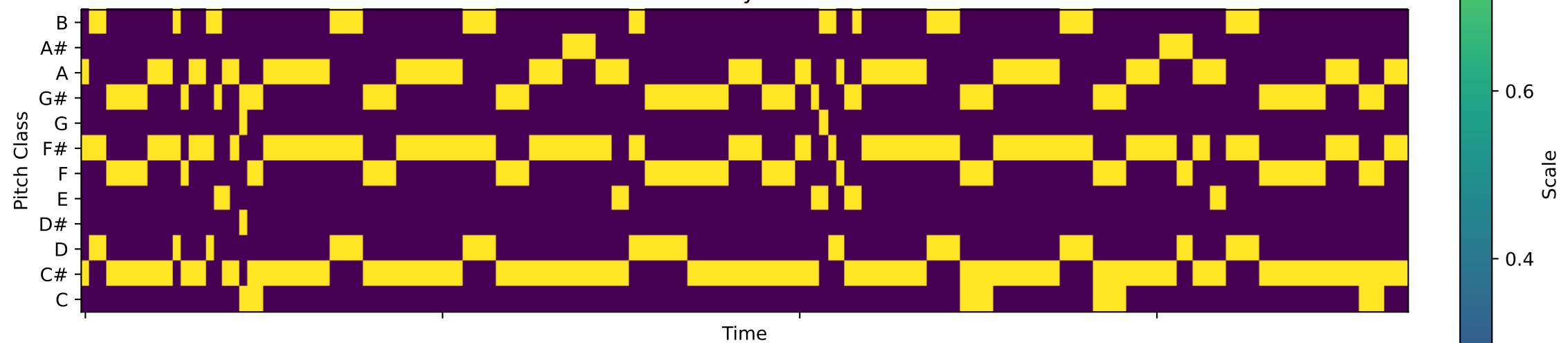
P-value: 0.0000

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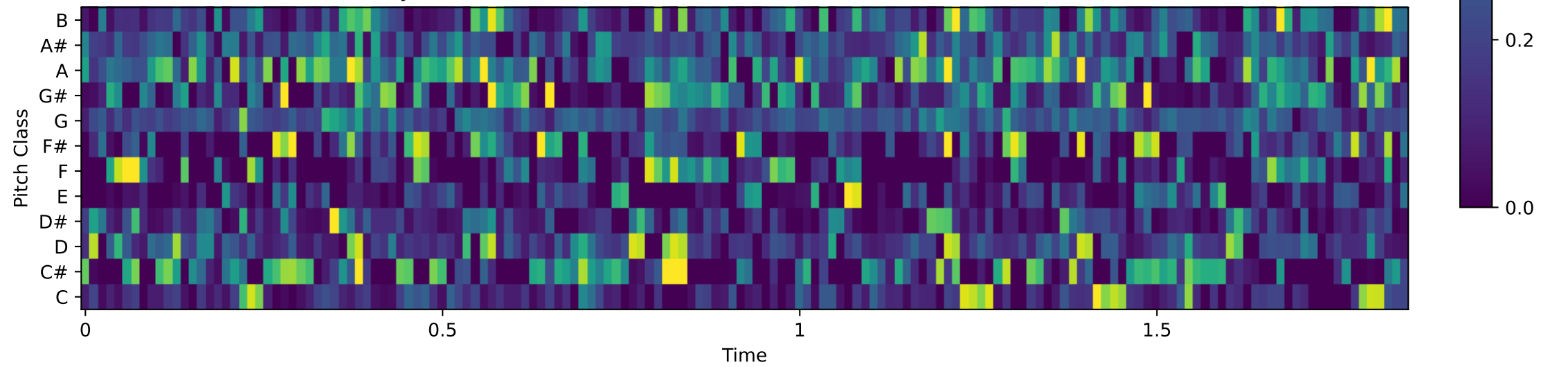
Calculated Beat-Synchronized Chroma



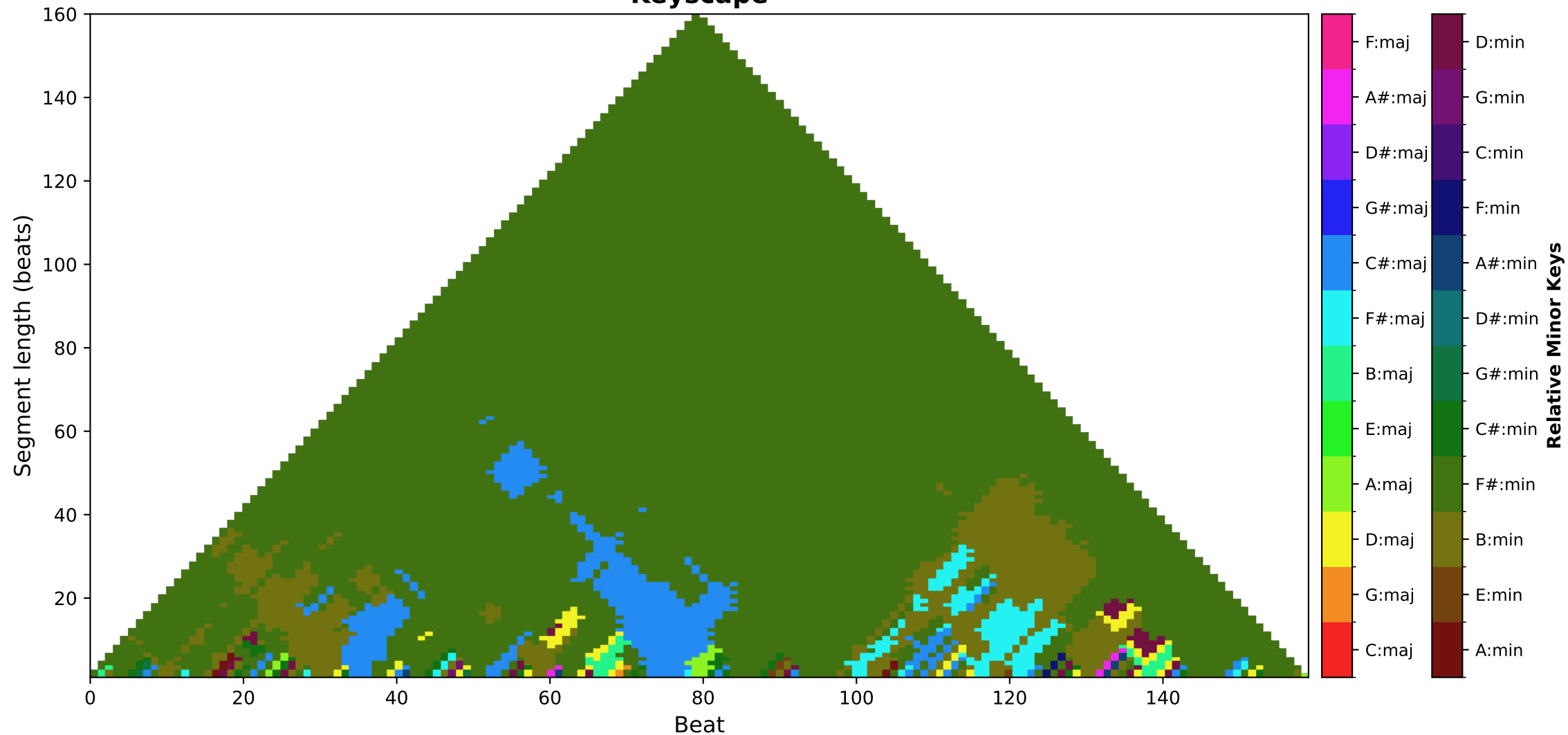
Ground Truth Beat-Synchronized Chroma



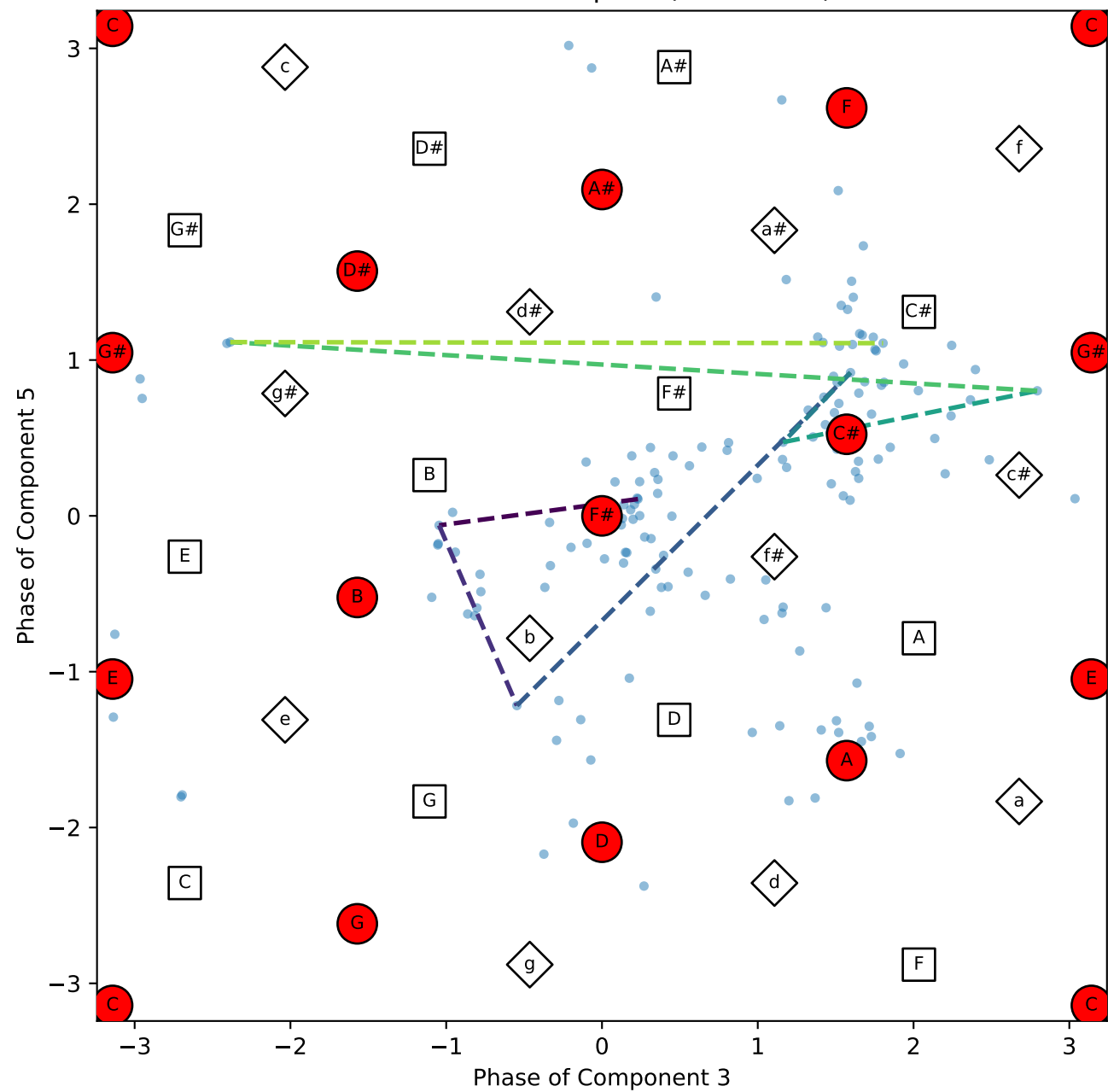
Beat-Synchronized Chroma Absolute Difference (Calculated - Ground Truth)



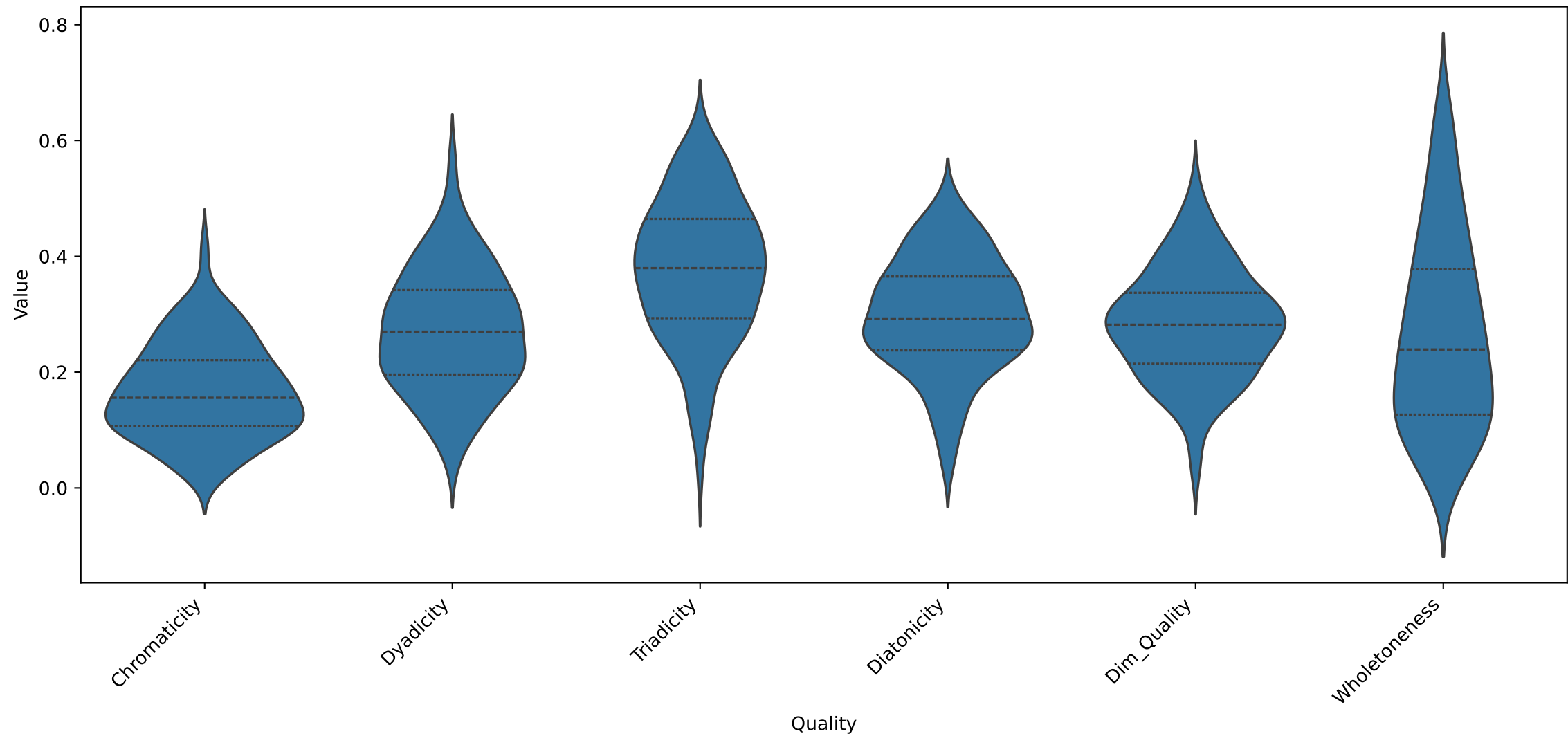
# Keyscape



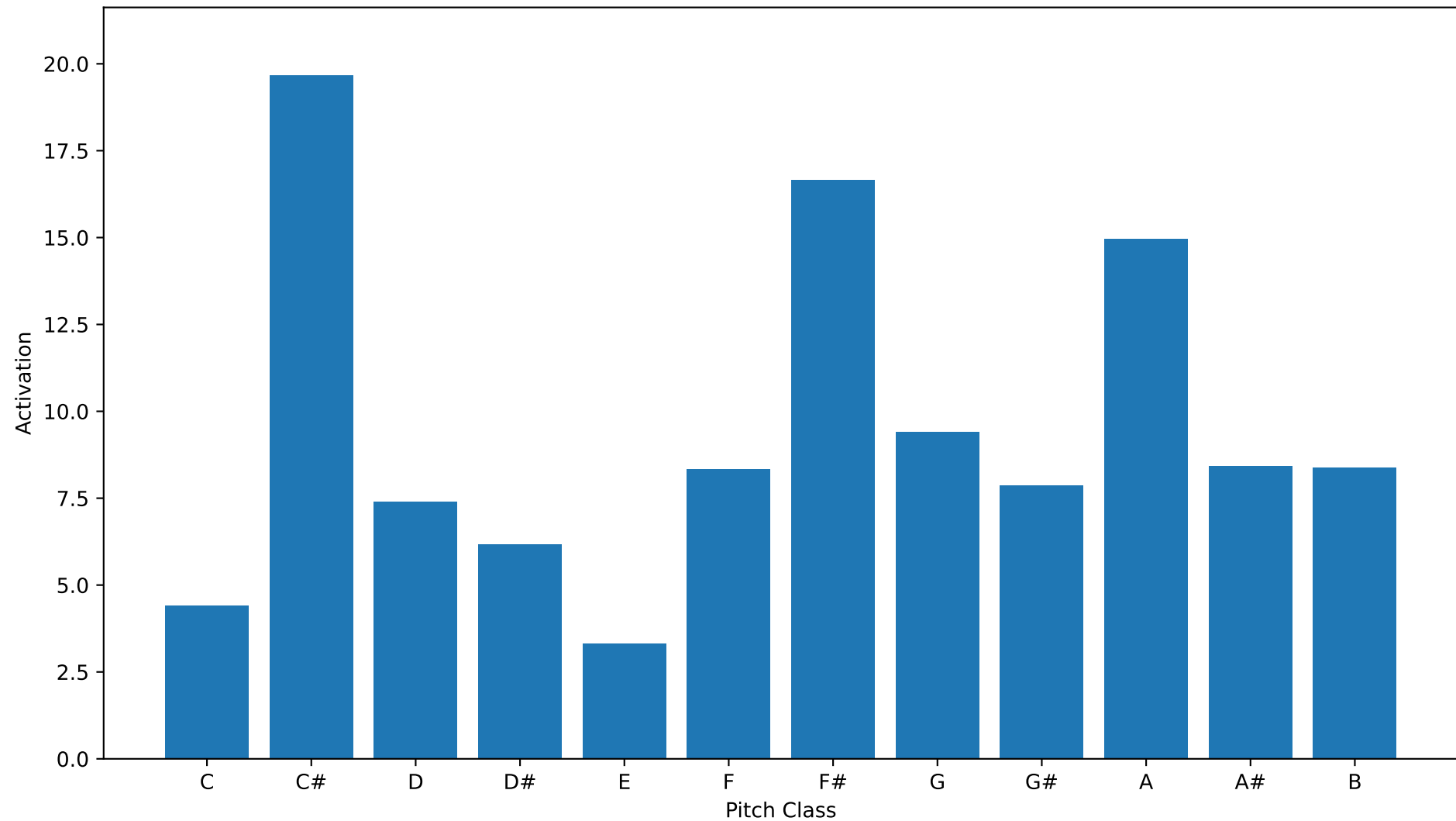
Tonnetz Phase Space (center: F#)



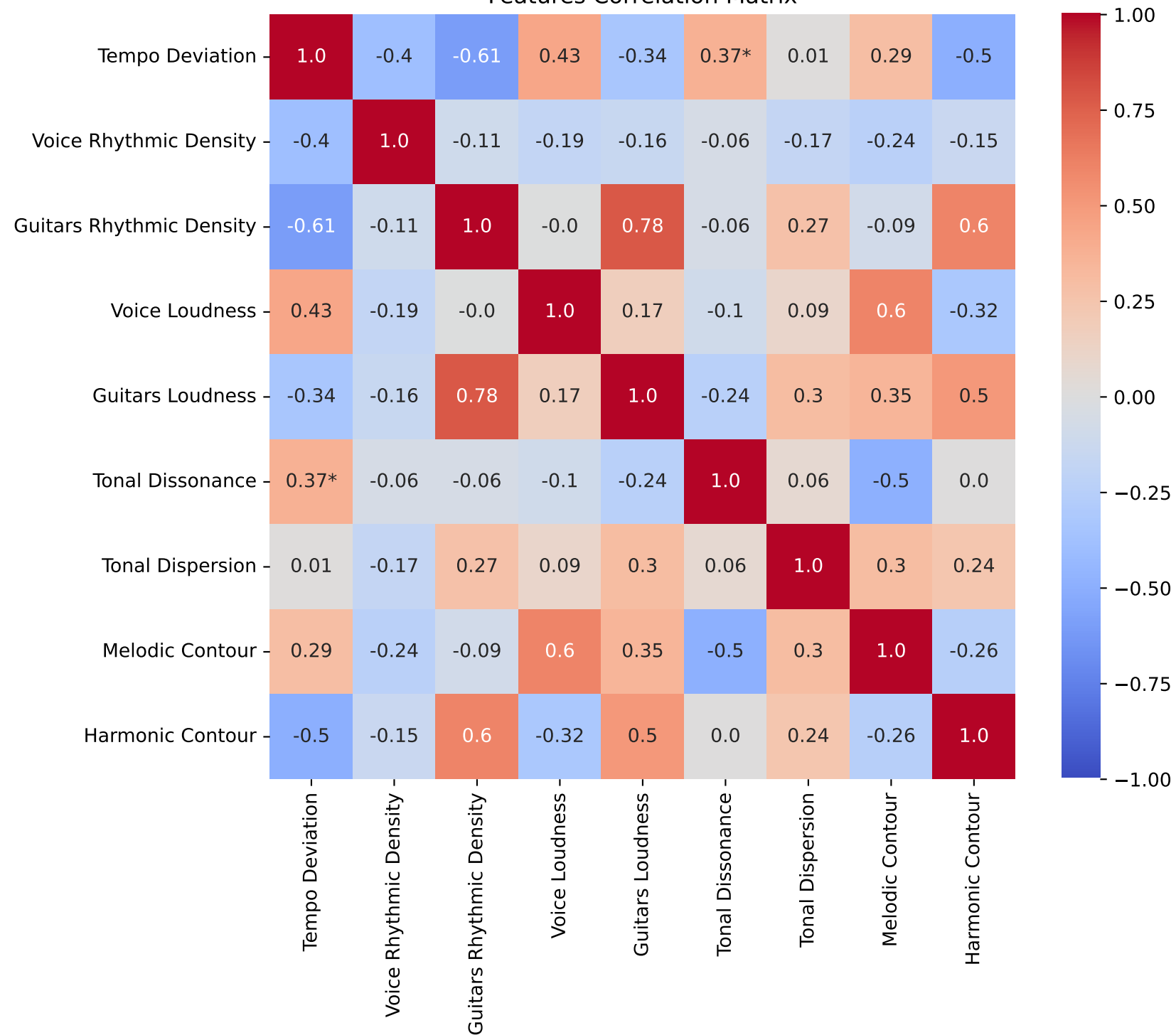
Distribution of Tonal Qualities



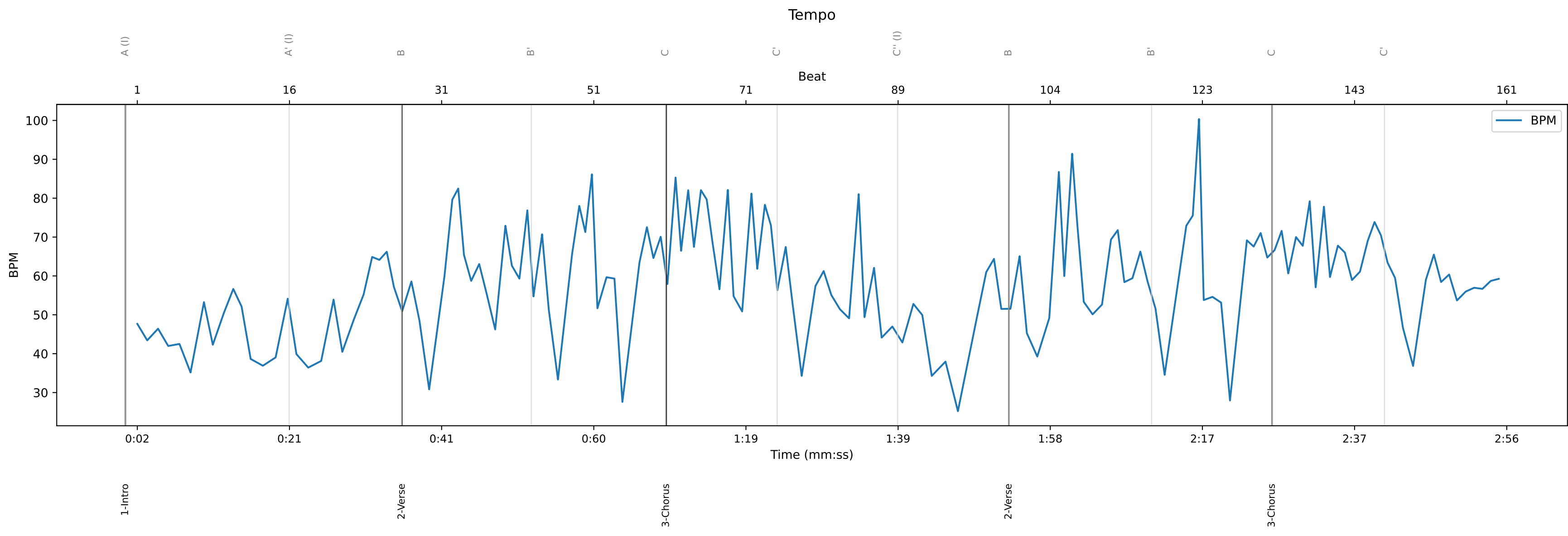
Global Chroma Vector (Section 2)



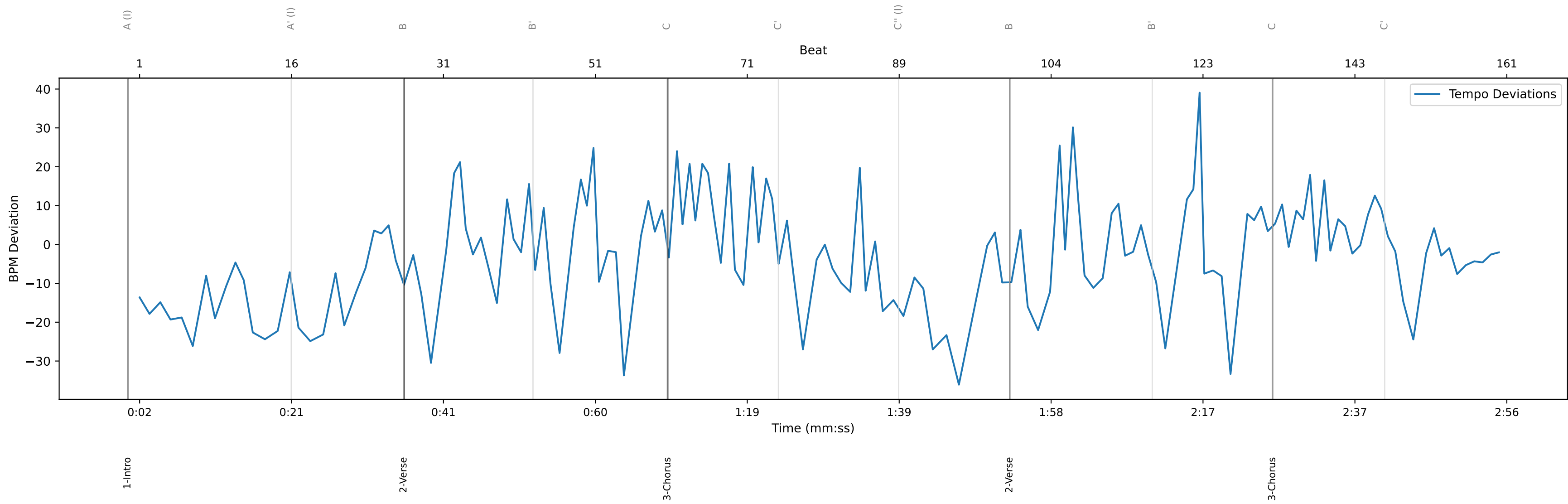
Features Correlation Matrix



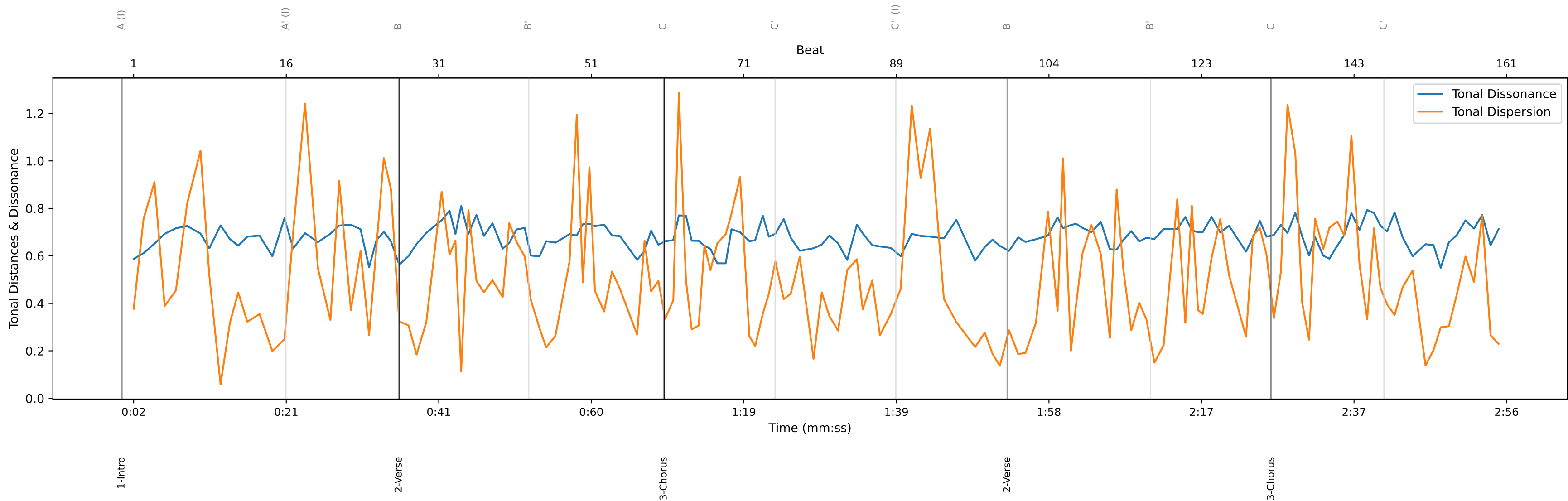


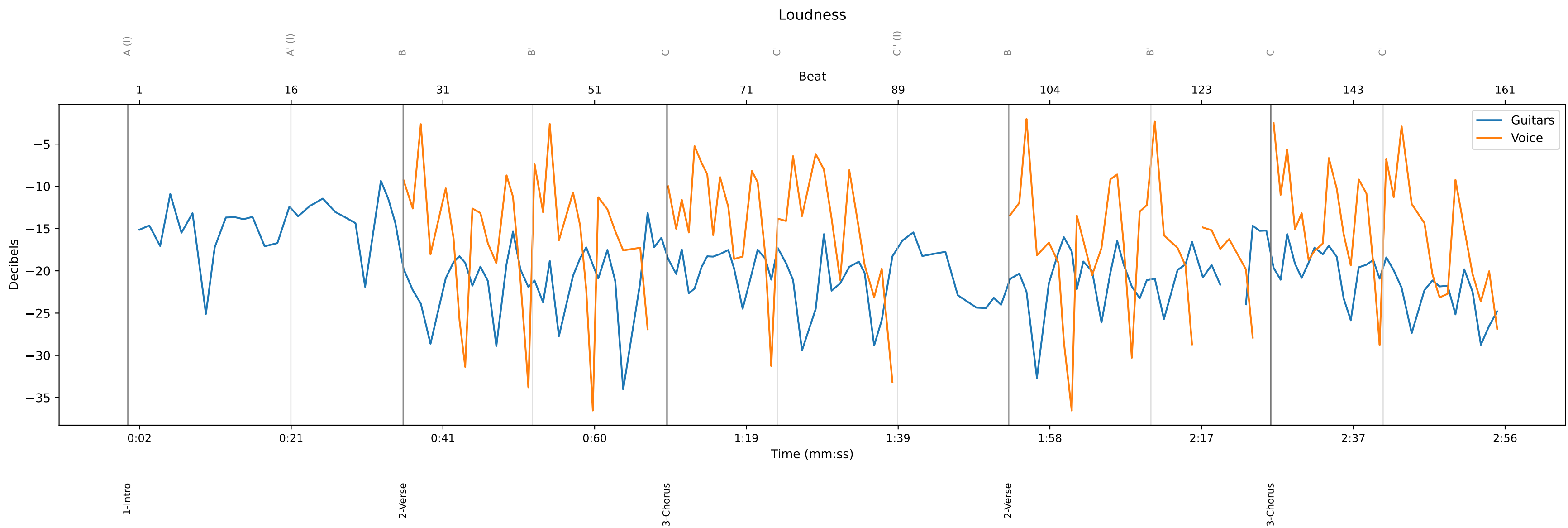


# Tempo Deviations

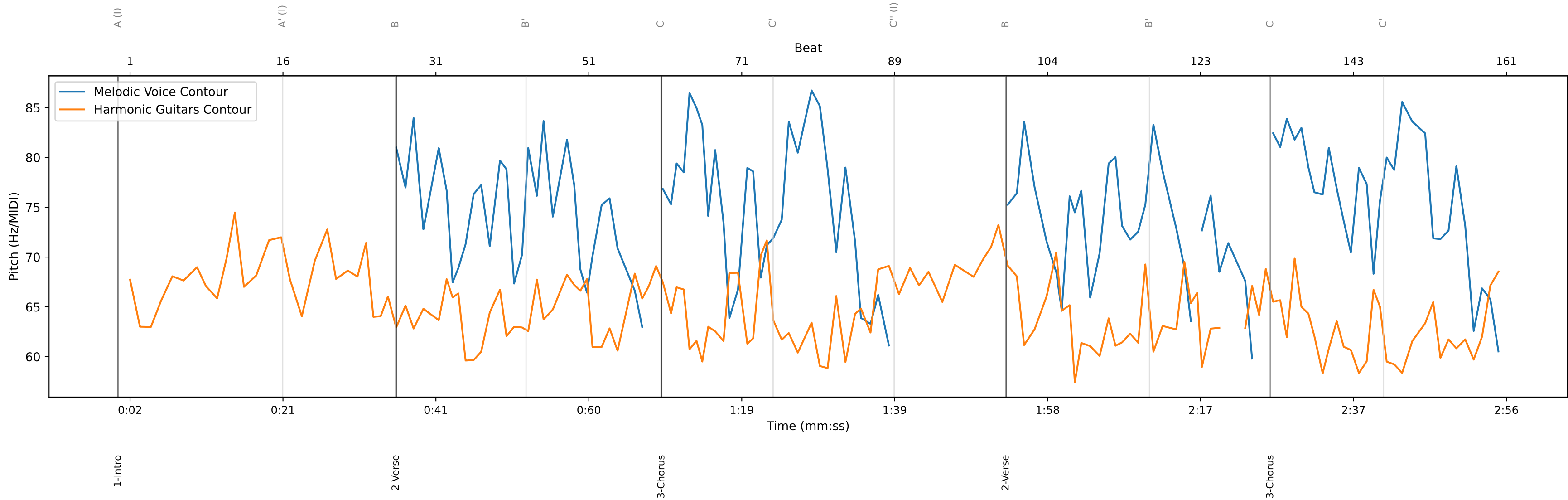


# Harmonic Features

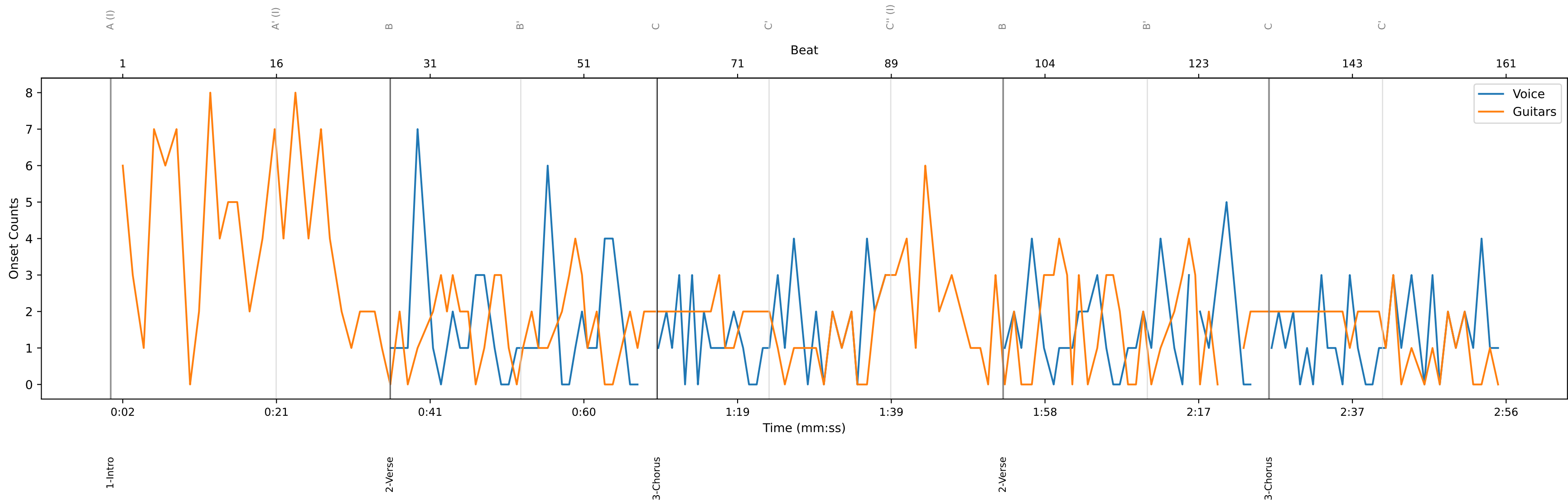




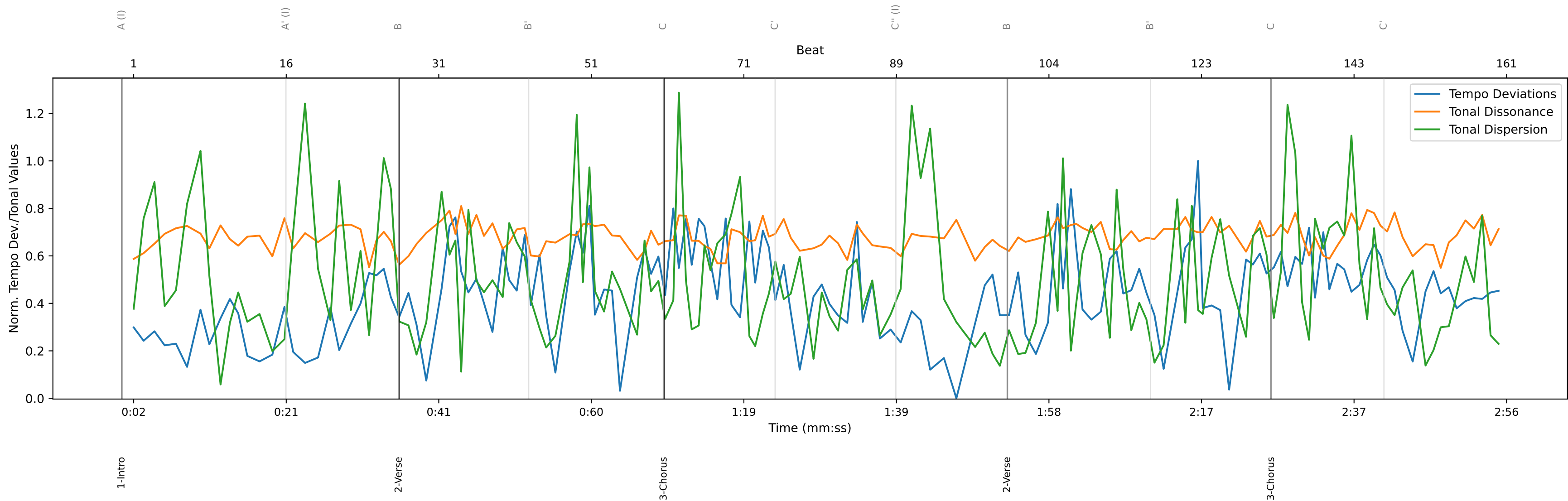
# Melodic Voice and Harmonic Guitars Contour



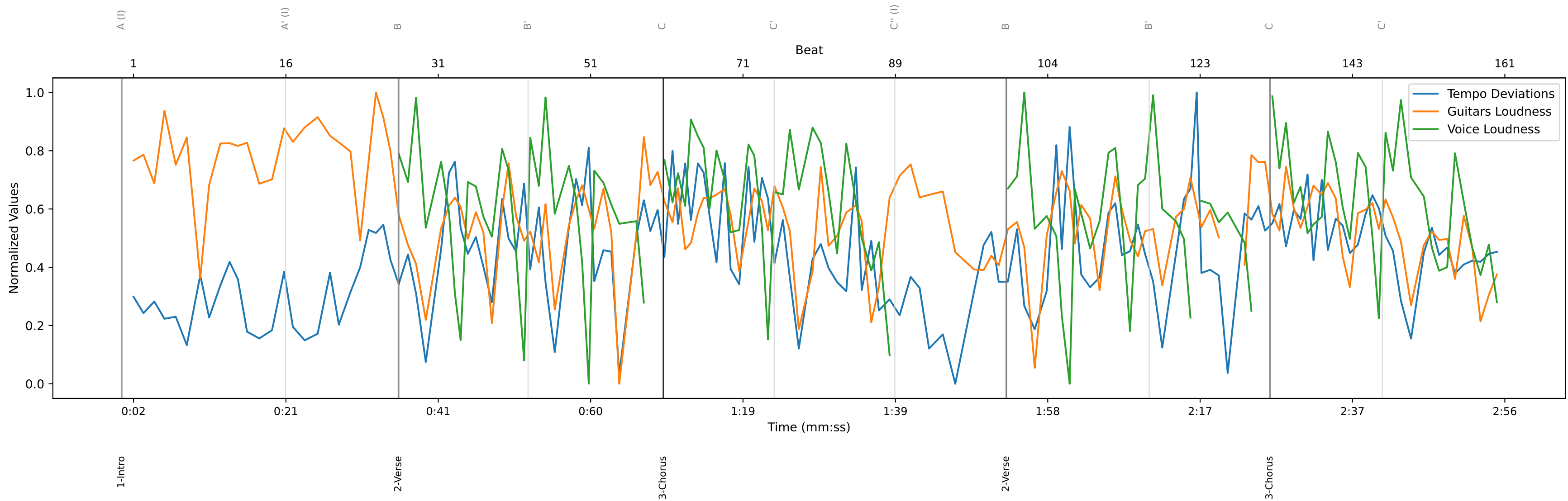
# Rhythmic Density



# Rhythmic and Harmonic Features

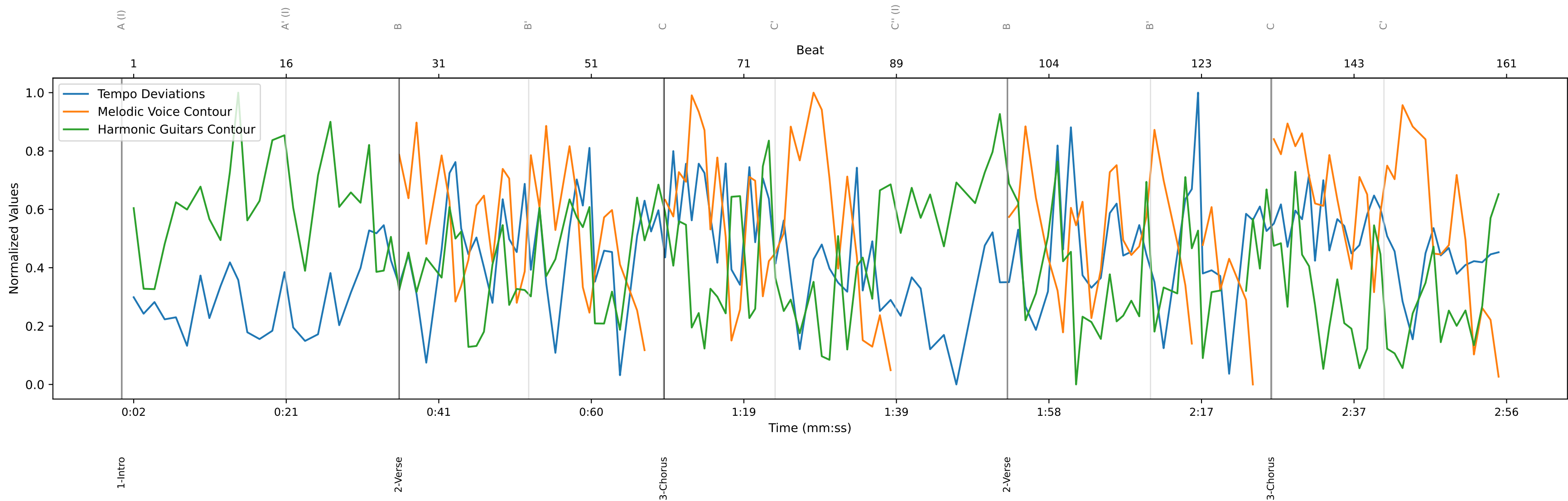


# Loudness Curves and Tempo Deviations

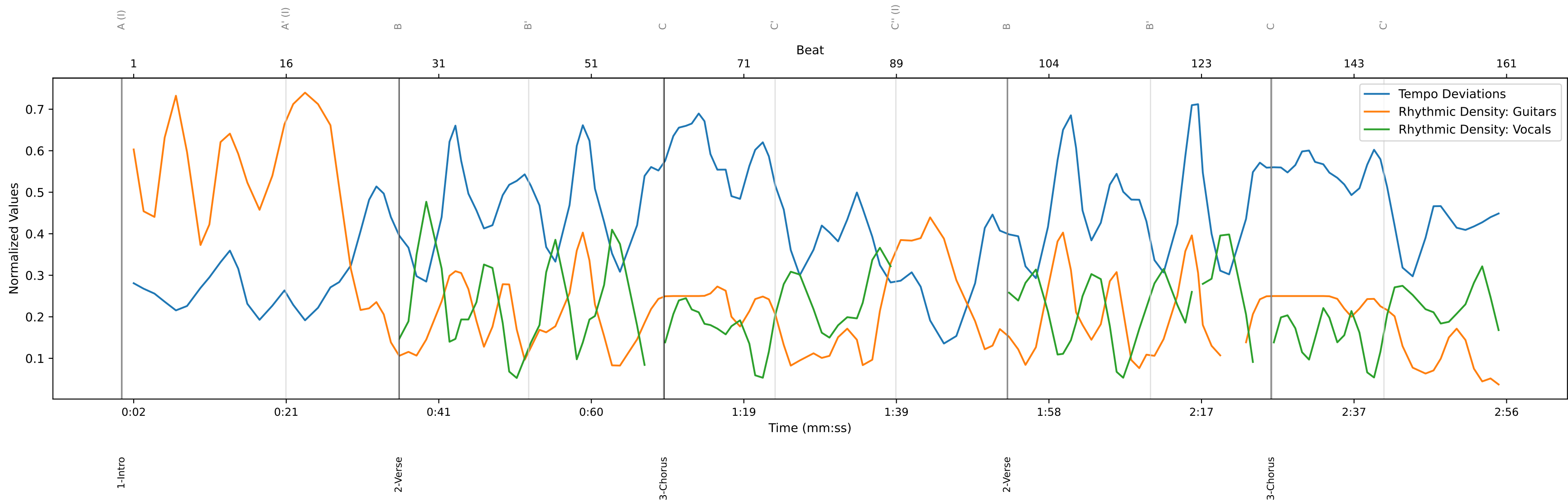




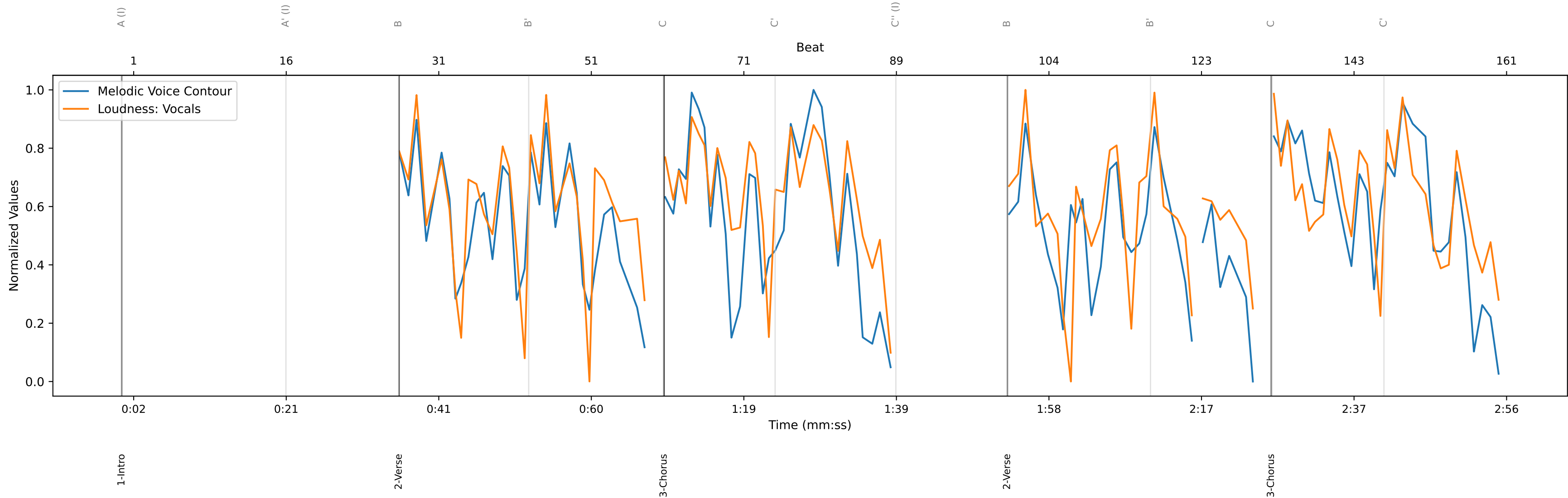
# Melodic/Harmonic Contours and Tempo Deviations



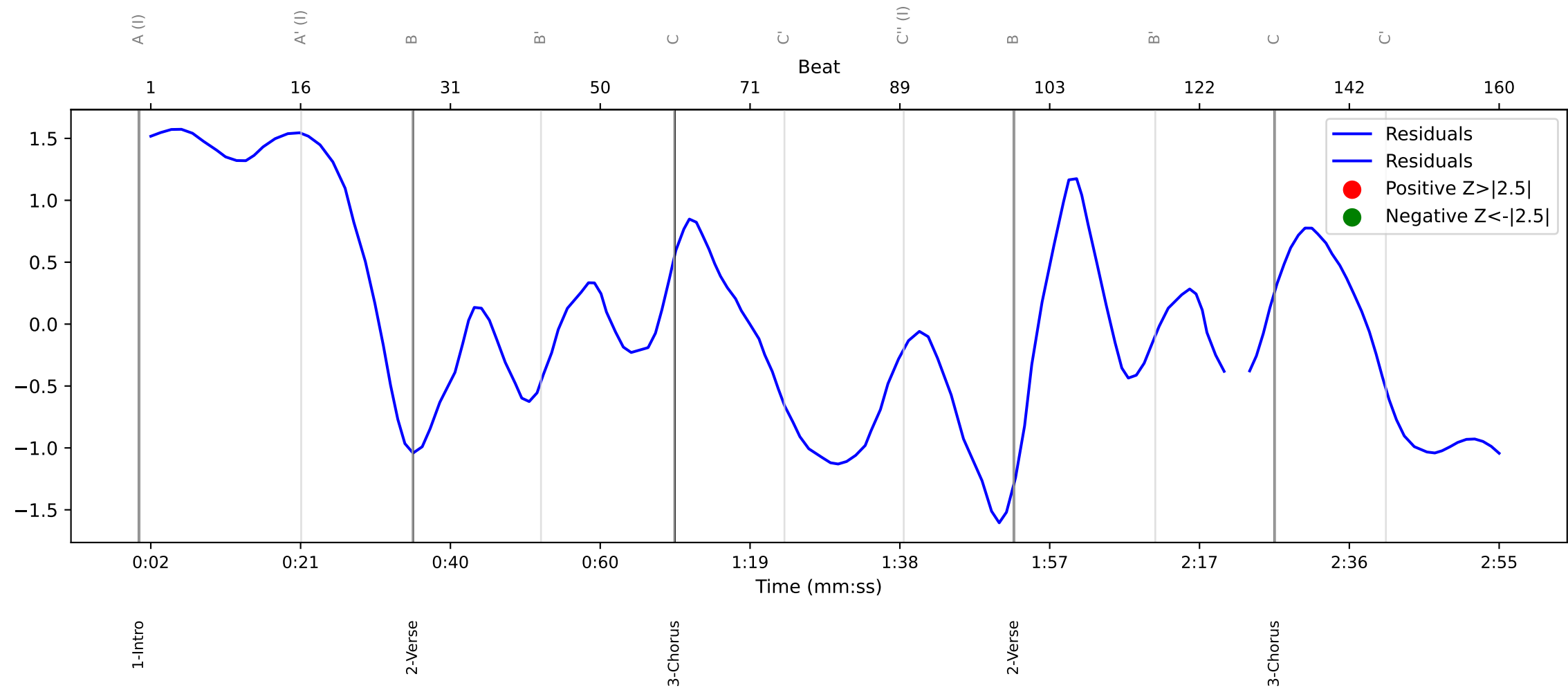
# Rhythmic Density and Tempo Deviations



# Melodic Voice Contour and Voice Loudness



Tempo Deviation vs. Guitars Rhythmic Density (EMD Corr: -0.61)



Guitars Rhythmic Density vs. Guitars Loudness (EMD Corr: 0.78)

