

## Report

Project: 1958\_Augusto Camacho/Quando os Sinos  
Dobram

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

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

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Computed median BPM: 62.74

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Beat-Synchronized HCF:

Pearson Correlation Coefficient (R): 0.5742

R-squared (R<sup>2</sup>): 0.3297

P-value: 0.0000

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Frame-Level HCF:

Pearson Correlation Coefficient (R): 0.0316

R-squared (R<sup>2</sup>): 0.0010

P-value: 0.0000

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Beat-Synchronized Chroma Comparison:

Pearson Correlation Coefficient (R): 0.5864

R-squared (R<sup>2</sup>): 0.3439

P-value: 0.0000

Sum of Absolute Differences: 553.1506

Sum of Squared Differences: 279.7261

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Sensory Dissonance and Tonal Dissonance:

Pearson Correlation Coefficient (R): 0.0648

R-squared (R<sup>2</sup>): 0.0042

P-value: 0.3931

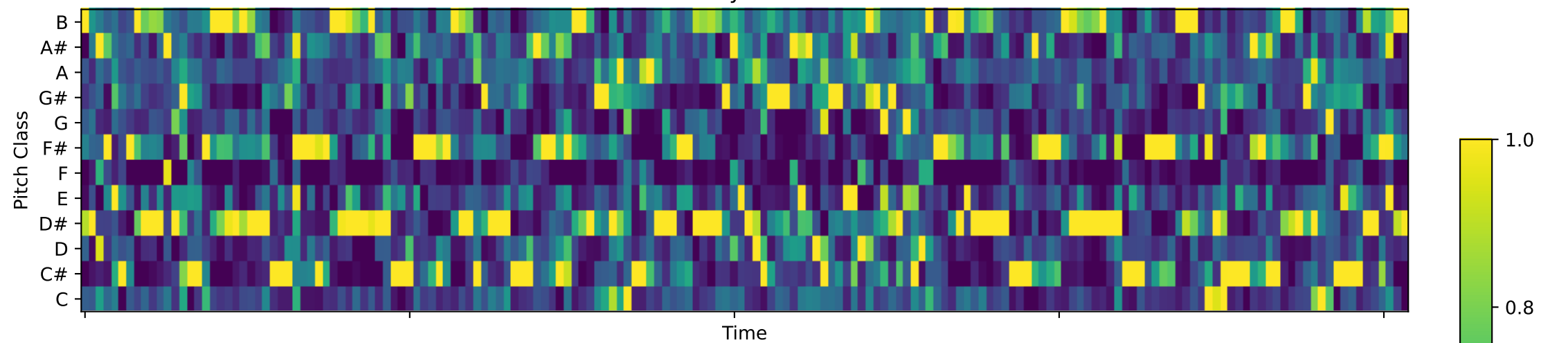
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Tonal Dispersion (Audio vs. Ground Truth):

Pearson Correlation Coefficient (R): 0.5407

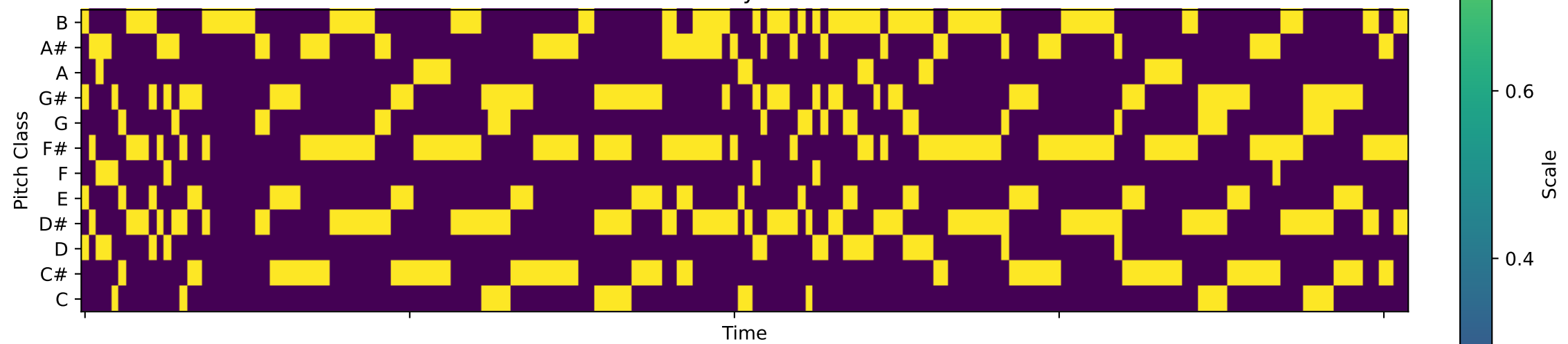
R-squared (R<sup>2</sup>): 0.2924

P-value: 0.0000

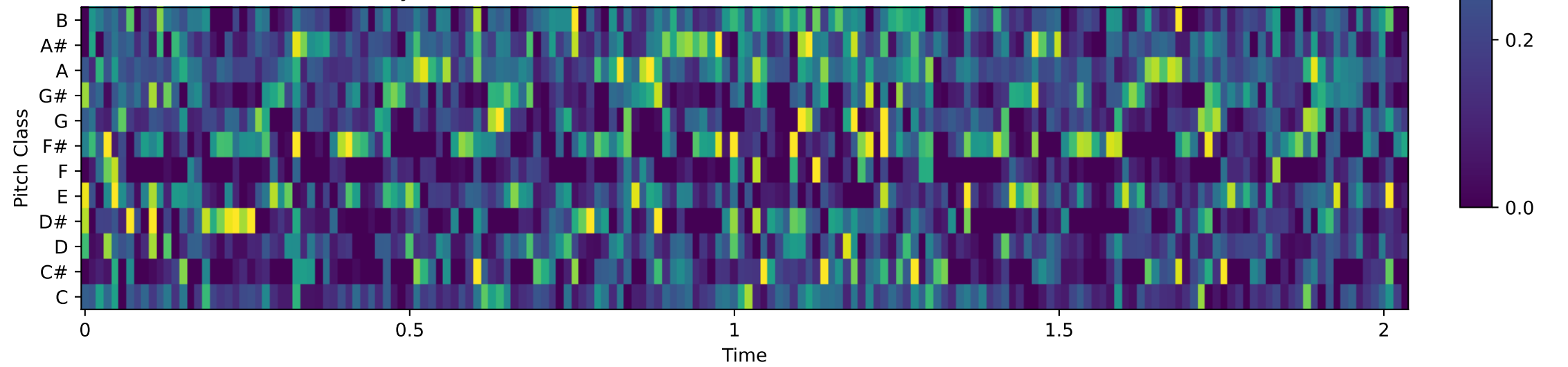
Calculated Beat-Synchronized Chroma



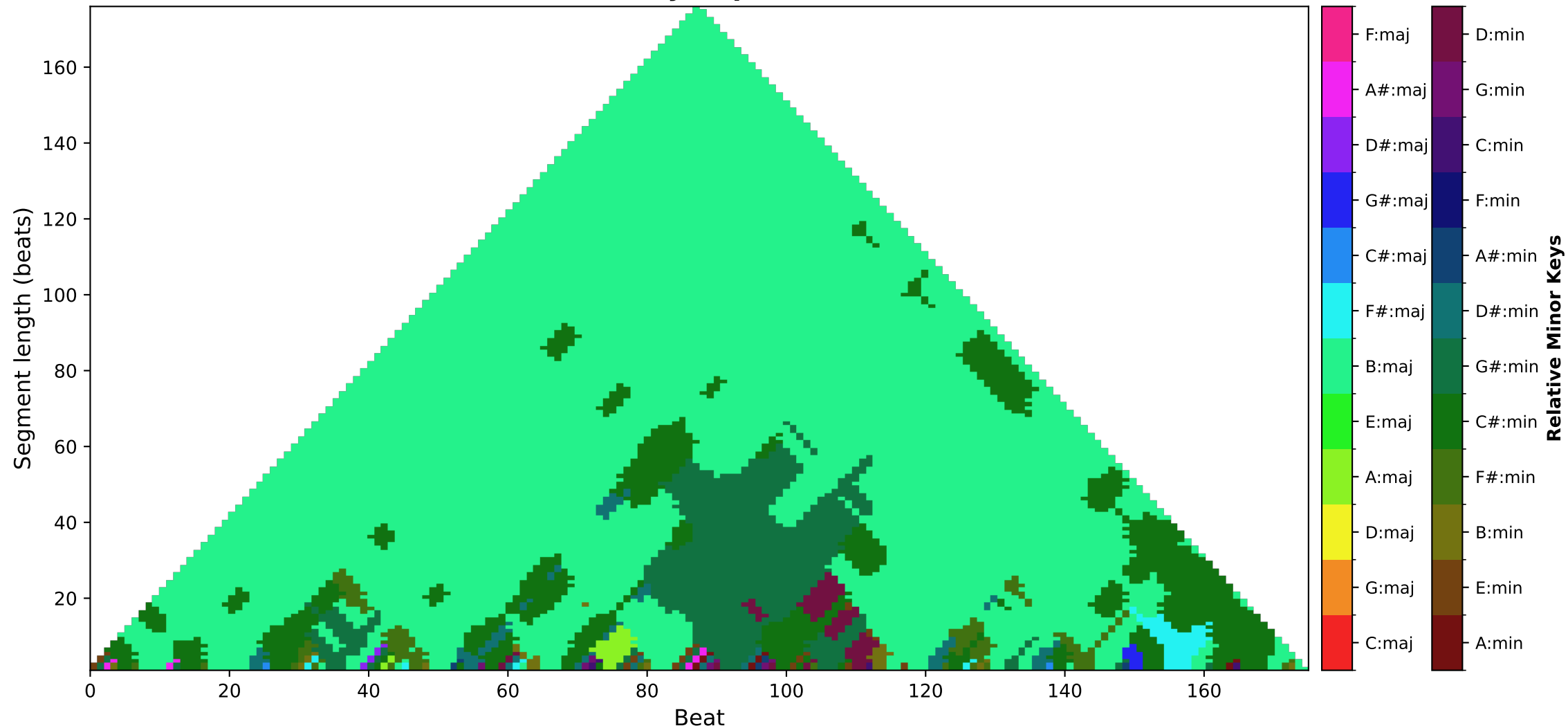
Ground Truth Beat-Synchronized Chroma



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

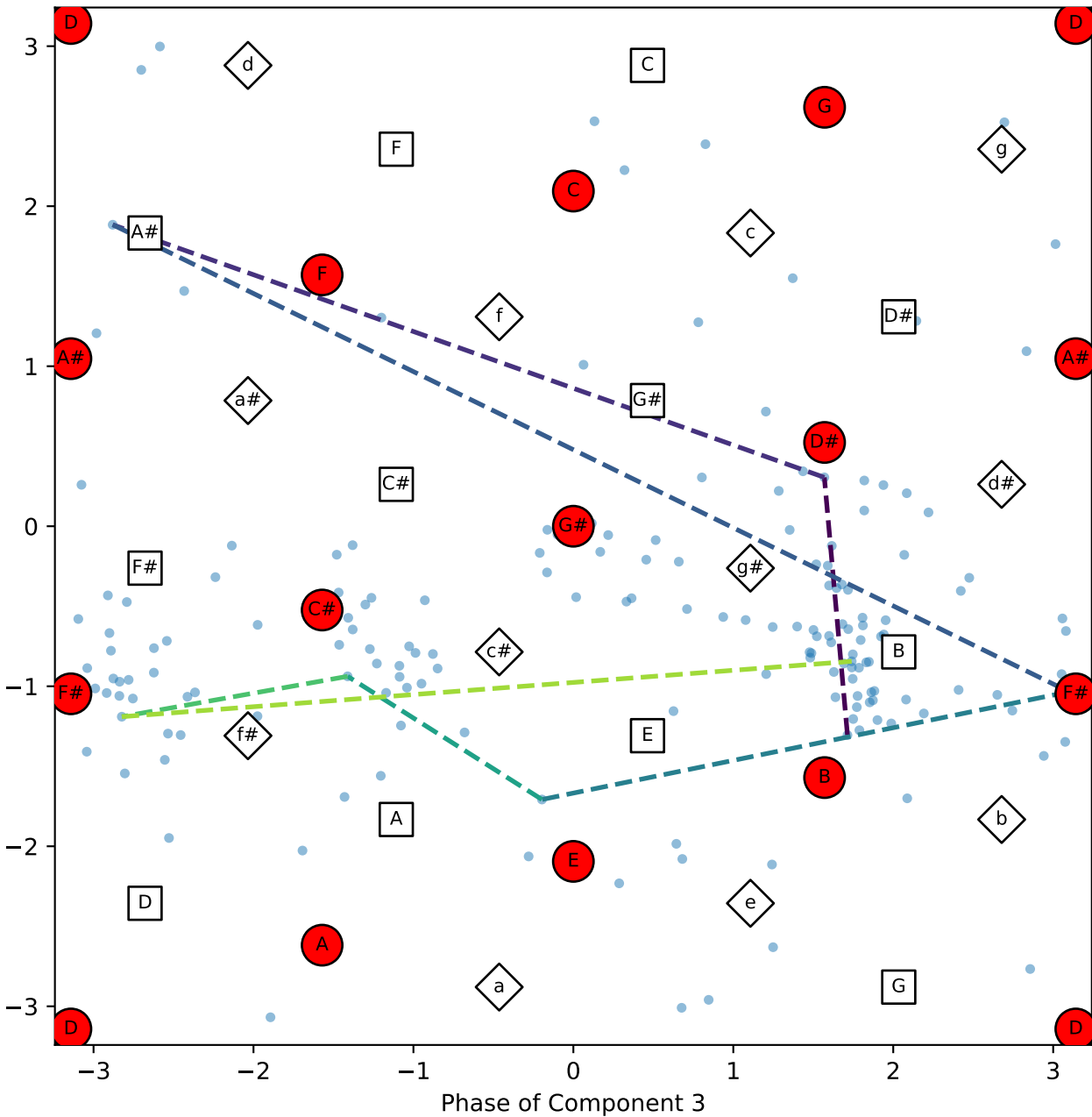


# Keyscape



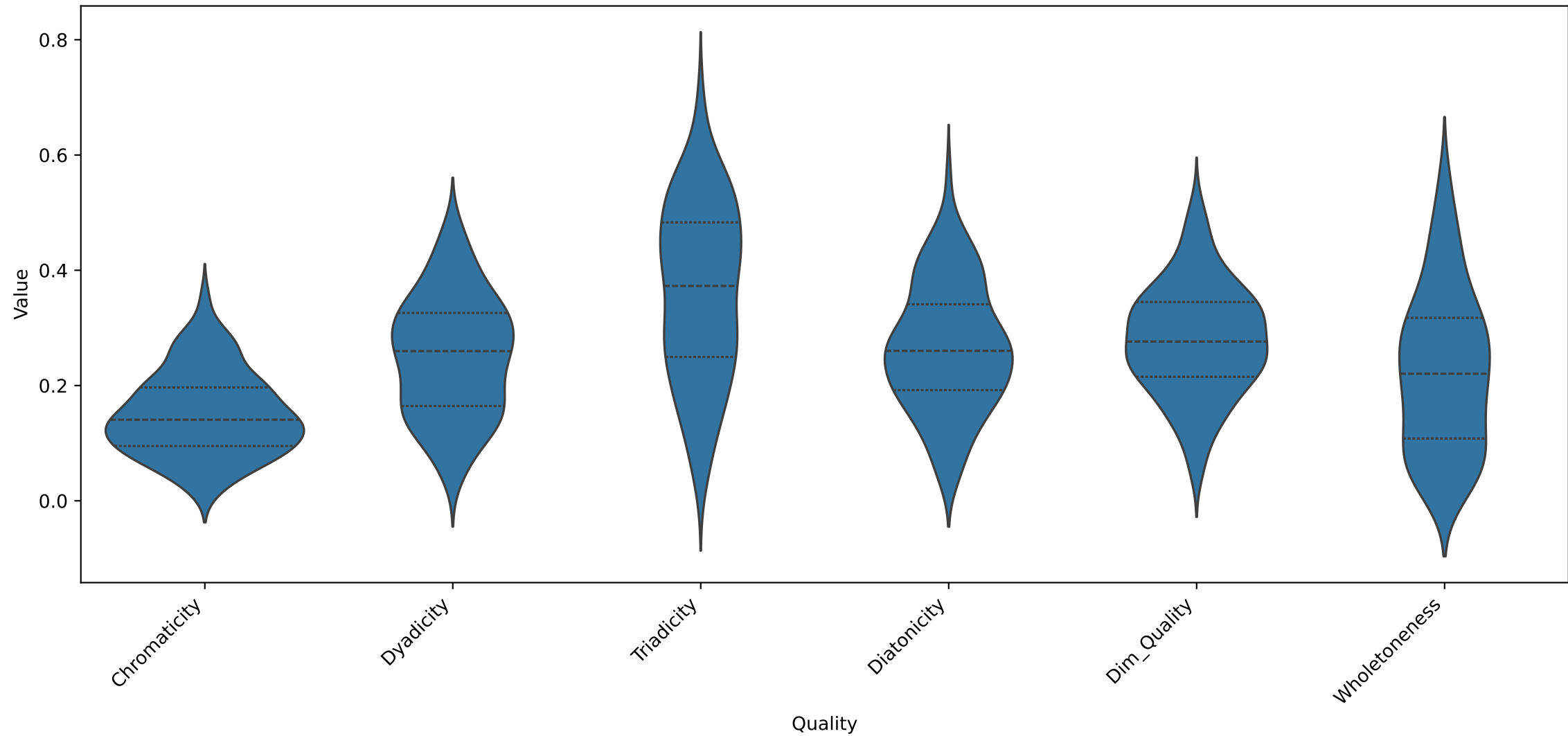
Tonnetz Phase Space (center: G#)

Phase of Component 5

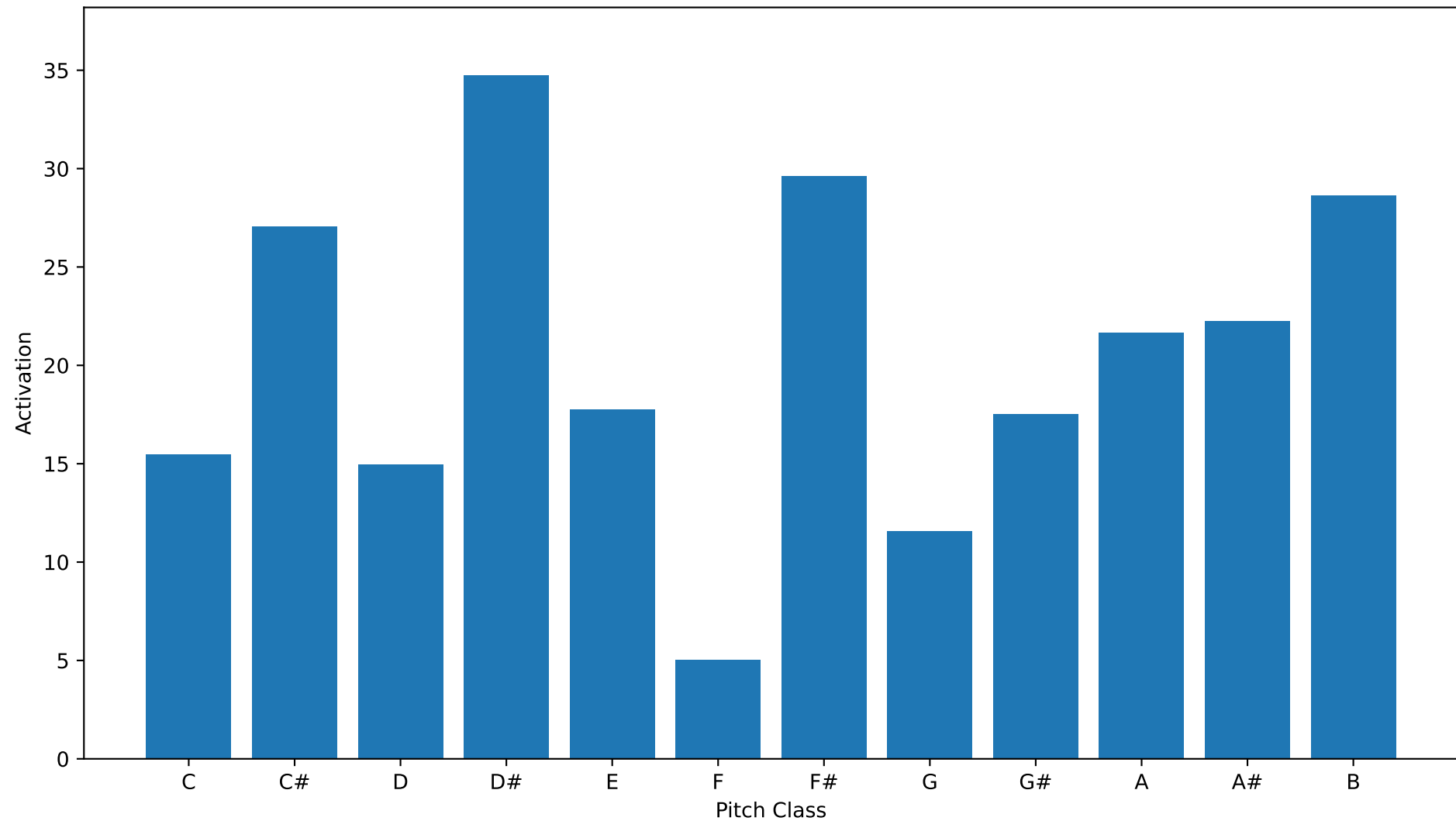


Phase of Component 3

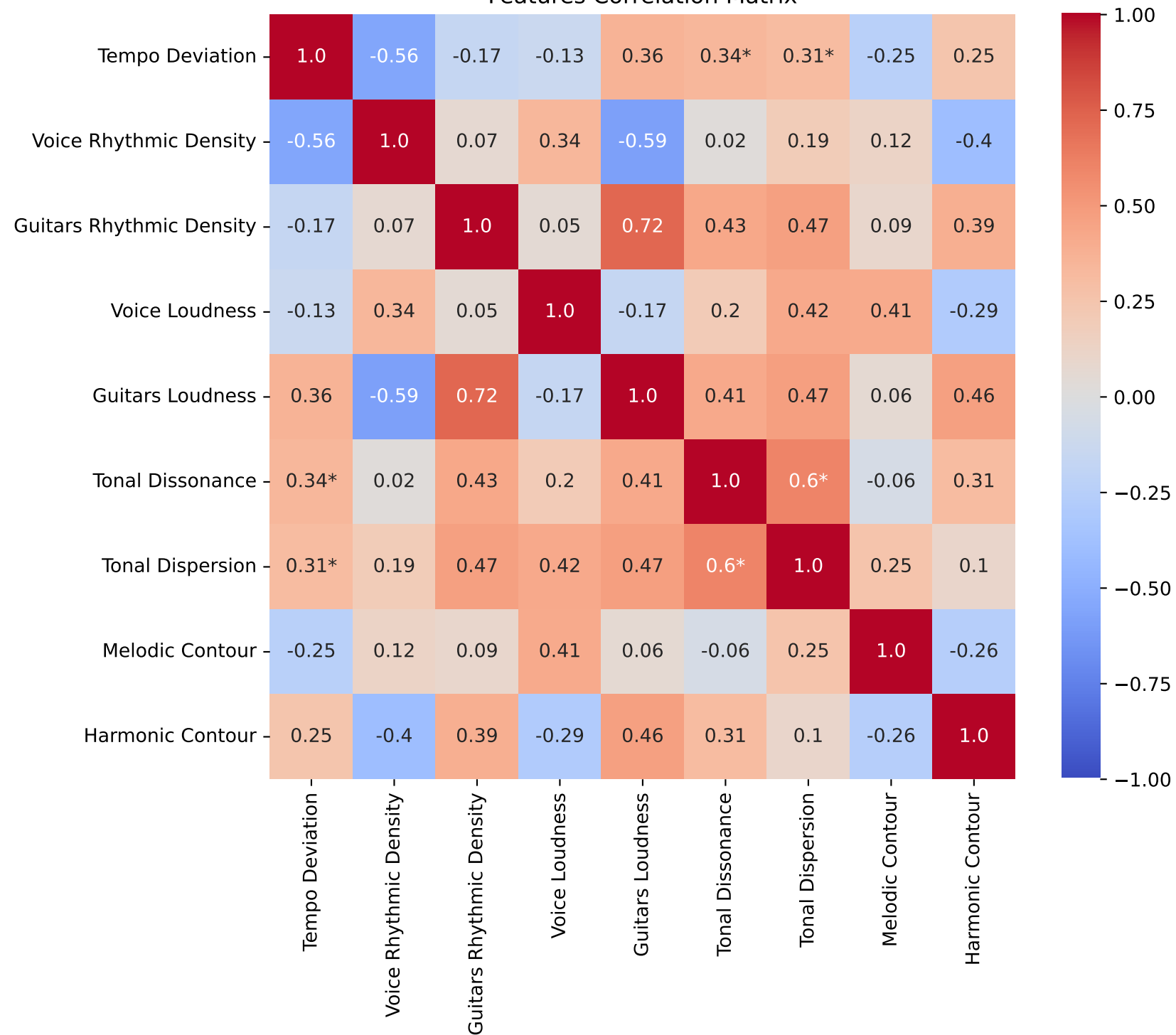
Distribution of Tonal Qualities



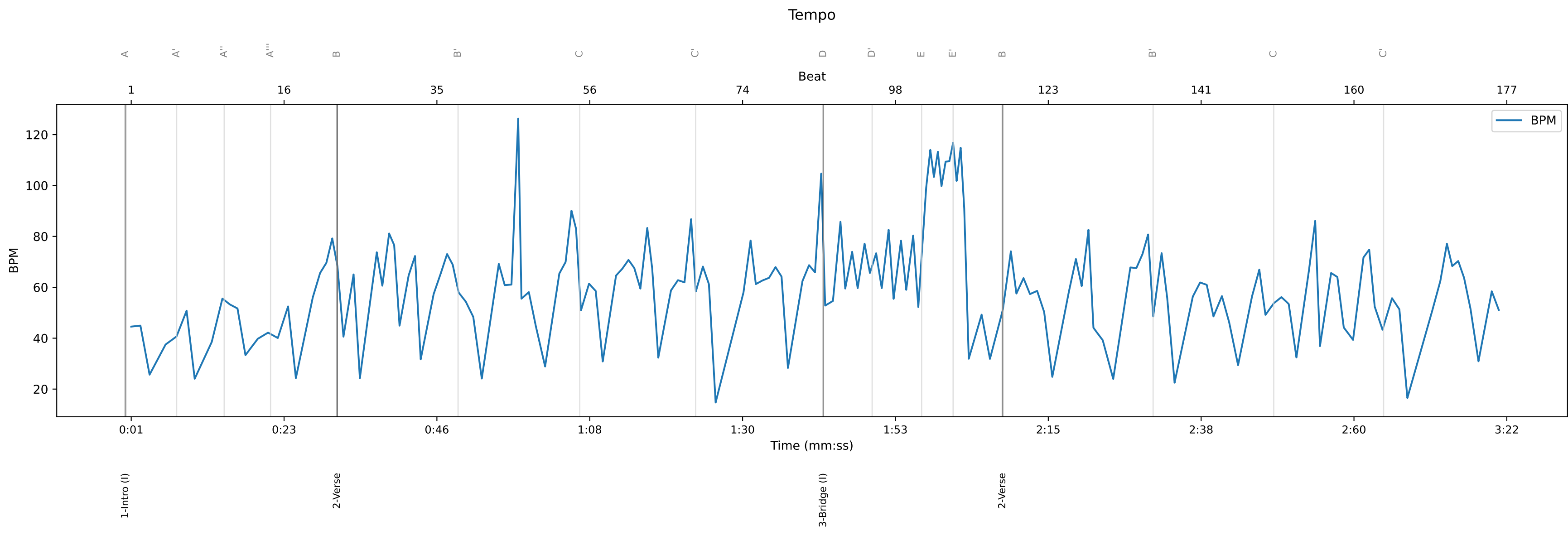
Global Chroma Vector (Section 2)



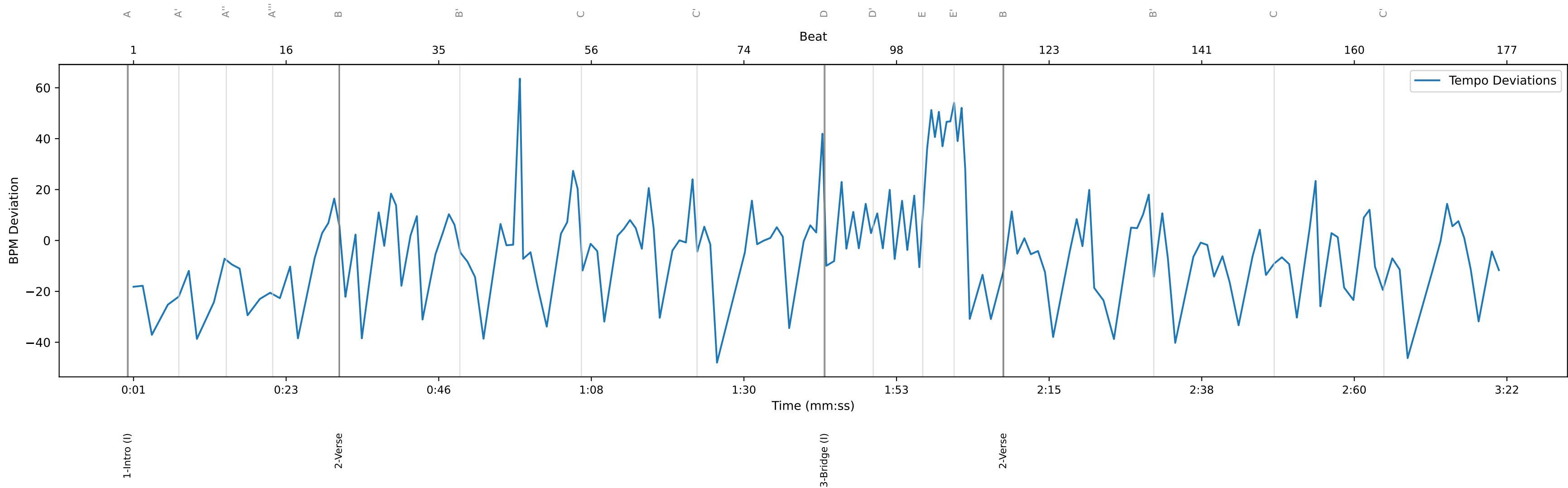
Features Correlation Matrix



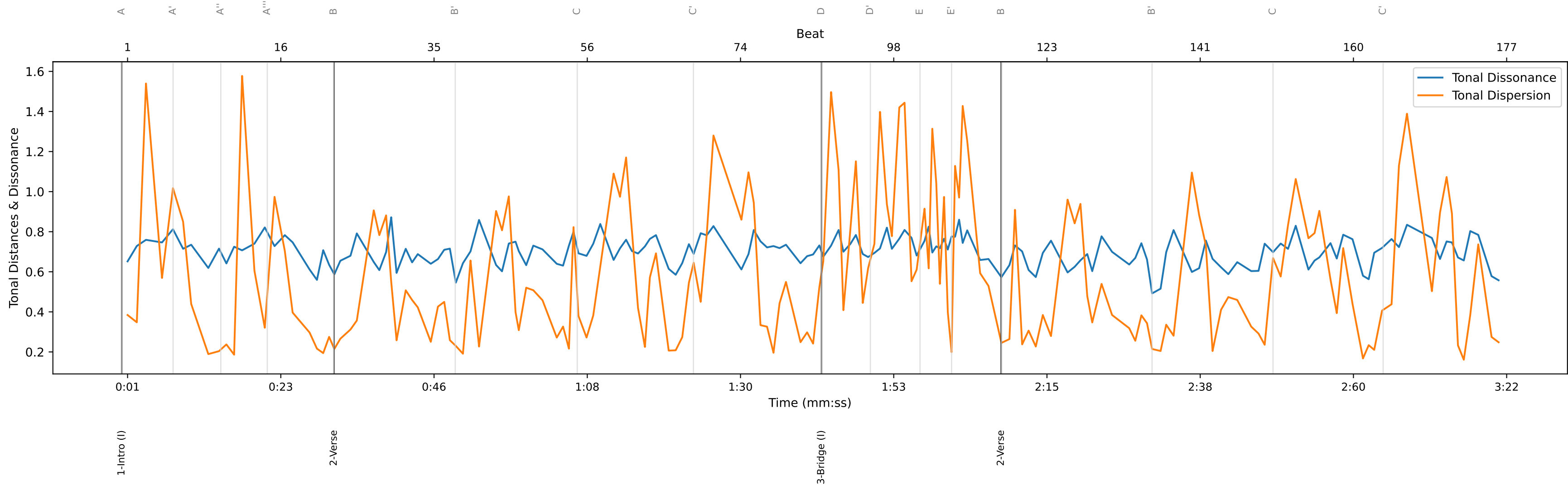




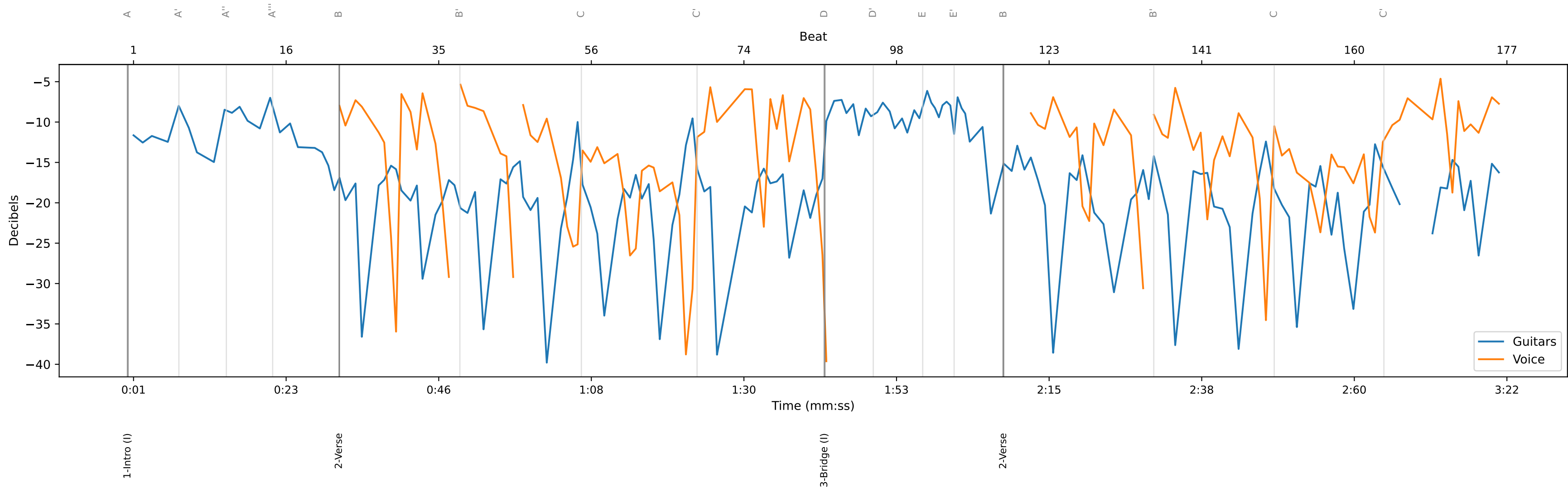
# Tempo Deviations



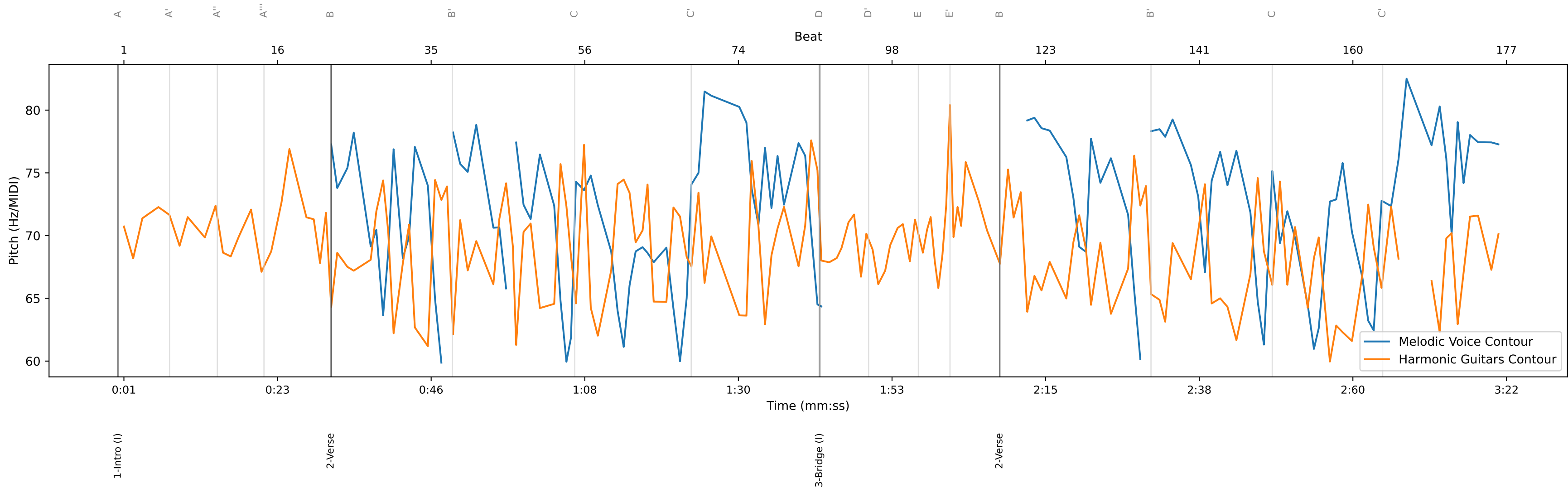
# Harmonic Features



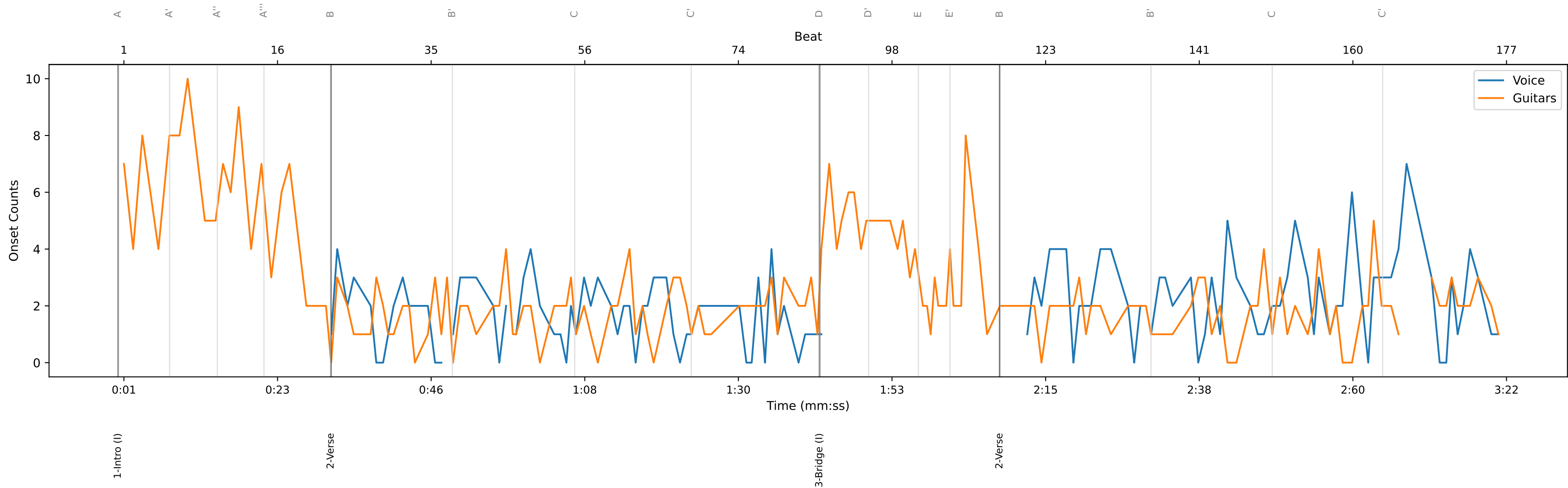
# Loudness



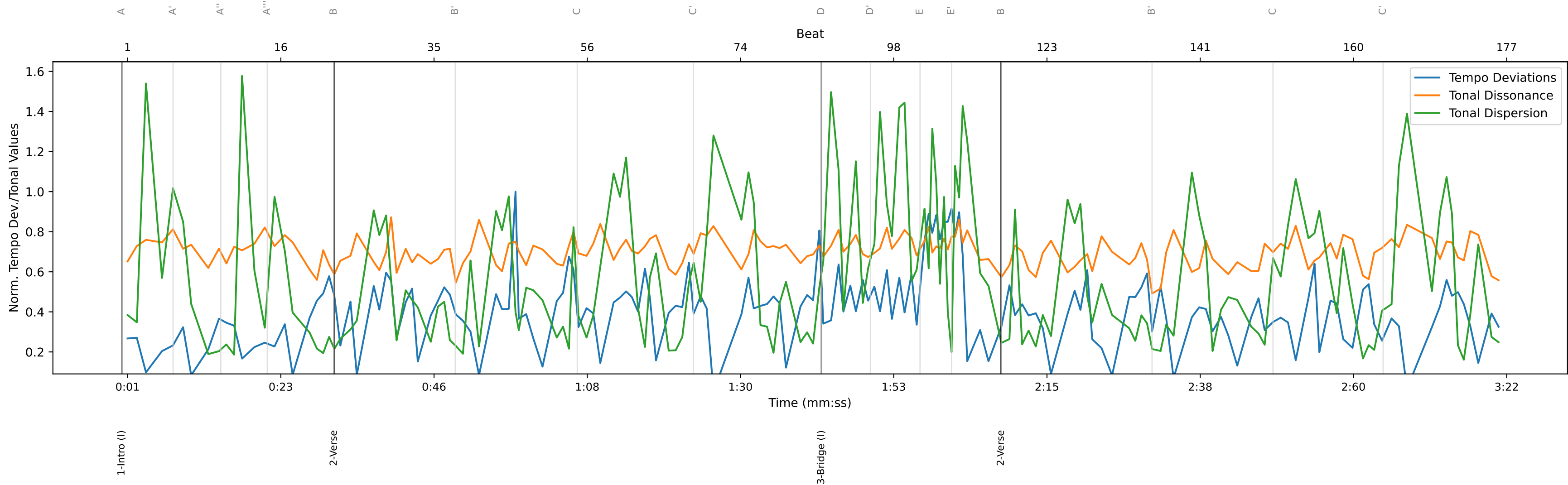
# Melodic Voice and Harmonic Guitars Contour



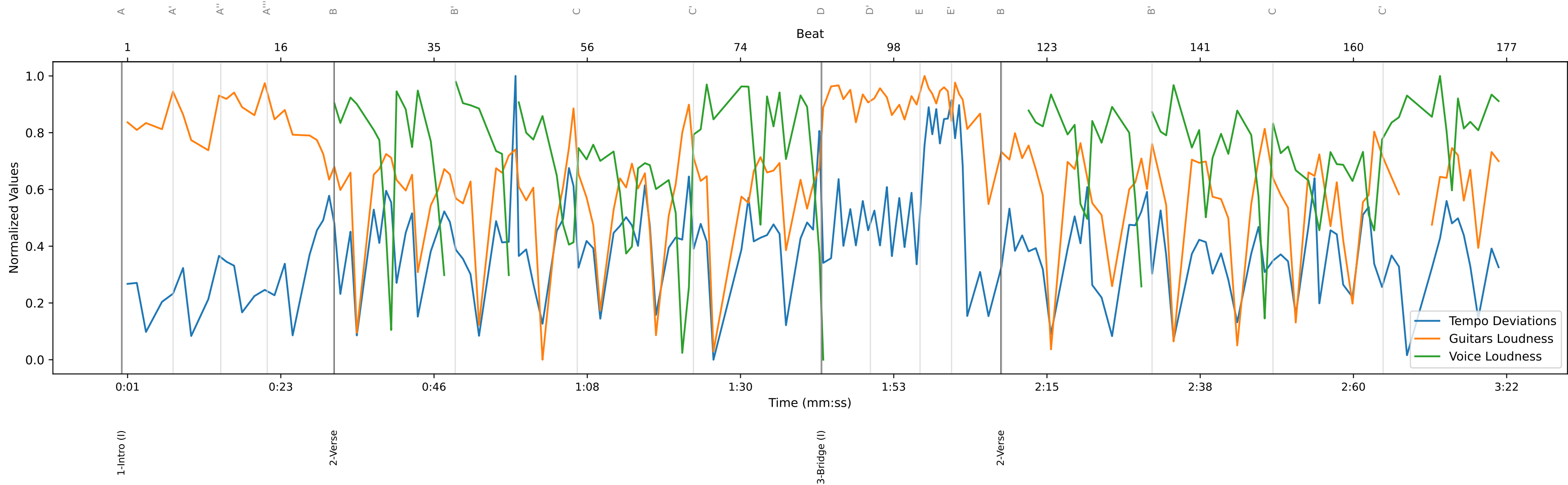
# Rhythmic Density



# Rhythmic and Harmonic Features

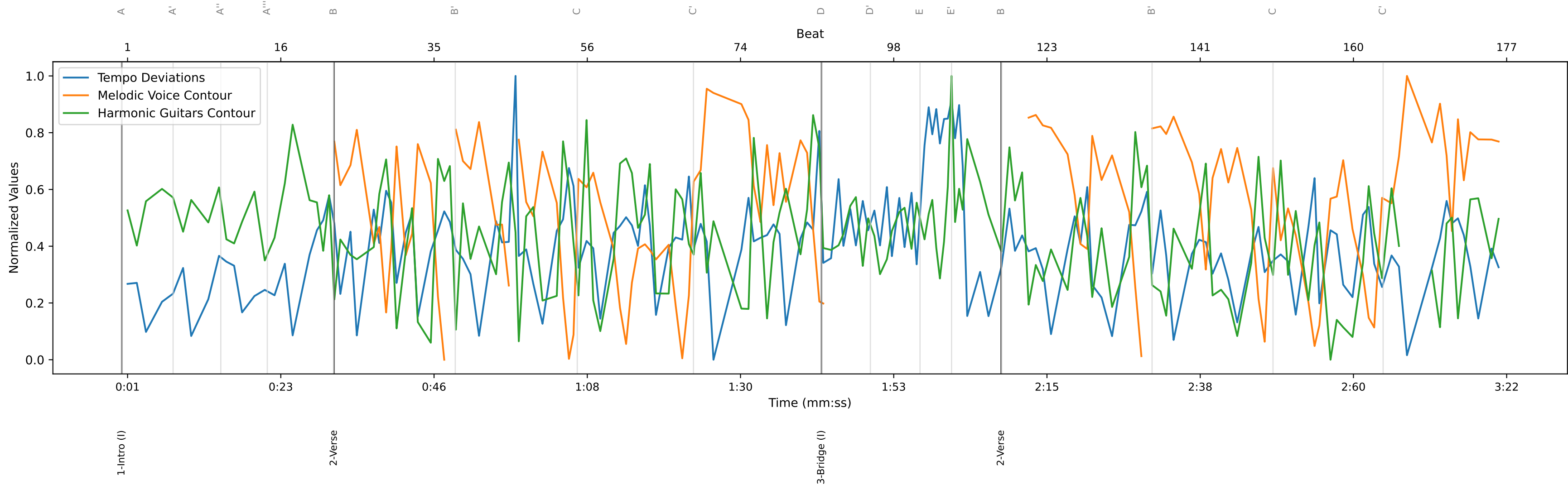


# Loudness Curves and Tempo Deviations

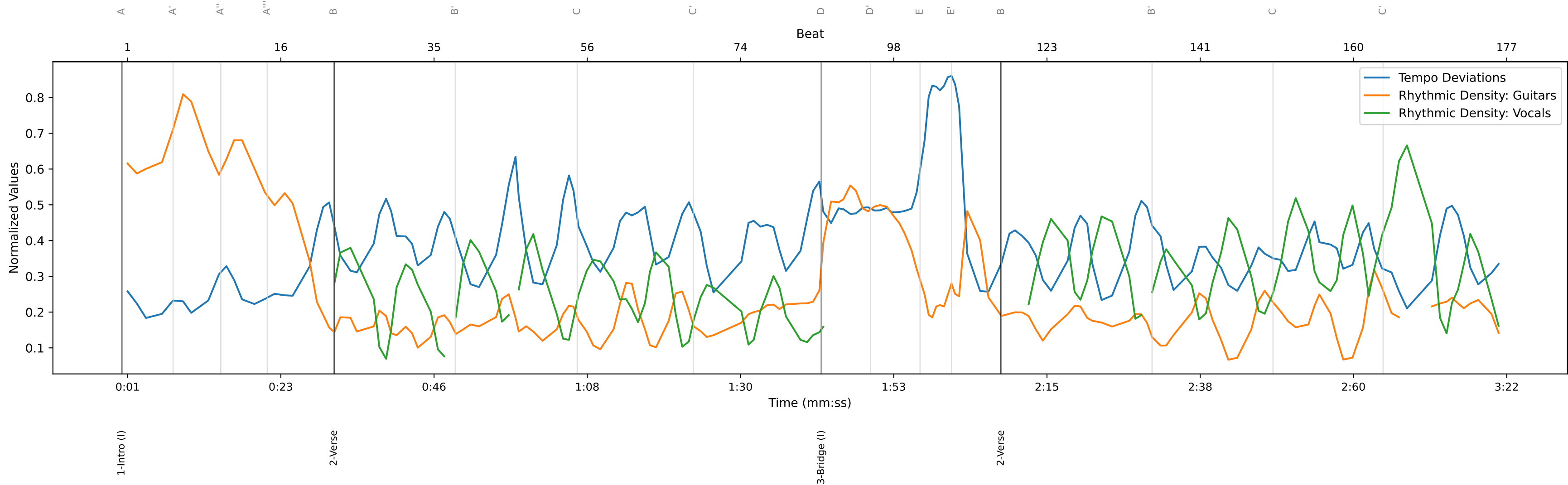




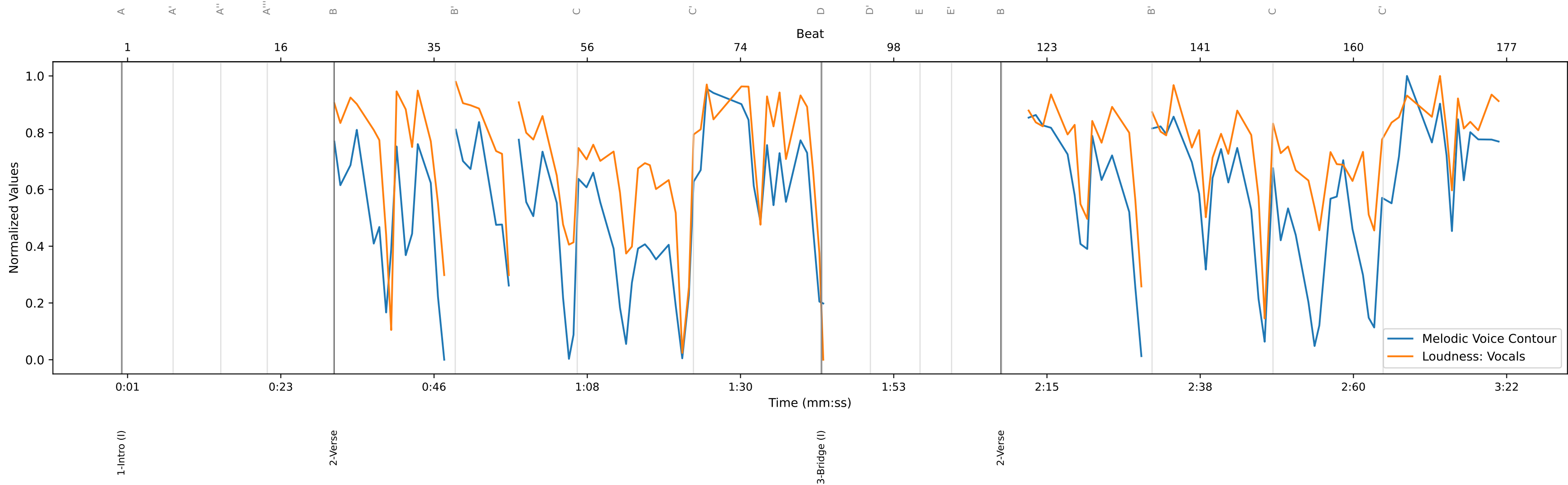
# Melodic/Harmonic Contours and Tempo Deviations



# Rhythmic Density and Tempo Deviations



# Melodic Voice Contour and Voice Loudness



Guitars Rhythmic Density vs. Guitars Loudness (EMD Corr: 0.72)

