

**Session Program**

**23-26 Jun 2026**

**Mathematics and Computation in Music 2026  
(MCM 2026)**

***Mathematical Approaches to Music  
Cognition, Pitch Perception, Consonance-  
Dissonance, and Performance***

Bard College, Annandale-on-Hudson, New York, USA

# Thursday 25 June

09:00

## Mathematical Approaches to Music Cognition, Pitch Perception, Consonance-Dissonance, and Performance

**Session** | **Location:** Olin Concert Hall in Franklin W. Olin Humanities Building

09:00–09:25 **Towards a Formalization of Fretboards and Gestural Effort**

**Speaker**  
Matt Chiu

09:35–10:00

**Transformational Analysis of Geometric Nets under Isotonicity Constraints**

**Speaker**  
Kristina Hurajova

10:10–10:35

**Emergent Circular Structures in Multi-Sensory Affective Spaces: A Topological Analysis of Music-Taste Correspondences**

**Speaker**  
Bruno Mesz

10:40–11:05

**Coffee Break, Registration, and MatheMusical Virtual Museum & Planet Voices by Gilles Baroin**

11:10–11:35

**Consonance Ratings of Most Even Tetrachords Obtained by Variation of Phases**

**Speaker**  
Luis Nuno

11:45–12:10 **Sound and Visual Objects in  $n$  Dimensions in the Labyrinth of Time**

**Speakers**  
Gilles Baroin, Stephane de Gerando

12:20–12:45

**Perceptual Signal Analysis and Eigenvalue-Weighted Metrics for Musical Audio Quality Assessment**

**Speaker**  
Sanjay Majumder

12:50