

Session Program

8–12 Sept 2026

Forum Acusticum 2026

***A11.03 Physical modelling and simulations of musical
instruments***

Wednesday 9 September

08:40

A11.03 Physical modelling and simulations of musical instruments: S076

Session | Location: Messe Congress Graz, Galerie A | Conveners: Juliette Chabassier, Péter Rucz

08:40–09:00

Physics-based Modelling of Mechanical Impact Noise in Piano Acoustics: Hammer-string Acceleration Noise

Speaker

Pablo Miranda Valiente

09:00–09:20

Equivalent Soundboard for Piano Model

Speaker

Dóra Jenei-Kulcsár

09:20–09:40

Low-frequency dissipation of a musical string in a viscous fluid: numerical study

Speaker

Antoine Hajczak

09:40–10:00

Explicit and Stable Pseudospectral Time-Domain Method for the Föppl–von Kármán Equations

Speaker

Victor Zheleznov

10:00

09:00

A11.03 Physical modelling and simulations of musical instruments: P469

Session | Location: Messe Congress Graz, Messehalle (Poster+Exhibition) | Conveners: Juliette Chabassier, Péter Rucz

09:00–12:00

Aerodynamic Mechanism of Accordion Pitch Bending: Simulation and Theoretical Analysis

Speaker

Seiji Adachi

12:00

10:20

A11.03 Physical modelling and simulations of musical instruments: S265

Session | Location: Messe Congress Graz, Galerie A | Conveners: Péter Rucz, Juliette Chabassier

10:20–10:40

Towards Co-Prediction of Steady-State and Transient Behaviour in Bowed-String Instruments: Initial Findings with the Thermal Elasto-Plastic Friction Model

Speaker

Vasileios Chatzioannou

10:40–11:00

Non-iterative energy balanced scheme for vocal and reed instrument synthesis

Speaker

Thomas Risse

11:00–11:20

Computational Study of Sound Production in a Flue Instrument using Helmholtz Decomposition

Speaker

Nicholas Giordano

11:20–11:40

Numerical characterization of Cretan lute sound-hole rosettes

Speaker

Michail Evangelos Terzakis

11:40