TECHNISCHE UNIVERSITÄT
IN DER KULTURHAUPTSTADT EUROPAS
CHEMNITZ

Institut für Physik
Physikalisches Kolloquium

Donnerstag, 14.11.2024, 15:30 Uhr

Ort: Reichenhainer Str. 90;
Zentrales Hörsaal- und Seminargebäude,
Raum C10.013

Prof. Dr. Alex Hofmann

Department of Music Acoustics (IWK)
University of Music and Performing Arts Vienna

From Music Acoustics to Musical Interface Design for Live-Electronics

This talk will give insights into the ongoing research at the Department of Music Acoustics - Wiener Klangstil at mdw - University of Music and Performing Arts Vienna. The Department is a transdisciplinary research institute dedicated to basic research in the fields of music acoustics, performance science, psychoacoustics, and music psychology. In the field of applied research, it focusses on musician-specific questions, particularly the acoustics of musical instruments and their interaction with playing technique and performance style.

A main focus of my talk will be on the currently ongoing research project "Études for Live-Electronics", which follows an arts-based research approach where we explore new methods to study the complex skill set that is involved in live-electronic music performance.

In contrast to acoustic instruments, the interface of electronic instruments is decoupled from the sound generator and sensors function as a mediator of the player actions to the sound generator. As there are no physical restrictions by the sound generator, the mediator can have many forms, often shaped by the choice of sensors. The research in this project on live-electronics performance and interface design are based on cross-cultural collaborations with Vietnamese composer-performer Luong Hue Trinh, Kenyan sound artists KMRU and Nyokabi Kariuki, as well as informed by early electro-acoustic compositions by John Chowning and Halim El Dabh.

Department Website: https://iwk.mdw.ac.at
Project Website: https://iwk.mdw.ac.at/hofmann/peek-etudes/

Alle Zuhörer sind ab 15:15 Uhr zum Kaffee vor dem Hörsaal eingeladen.