Session Program

5–6 Jan 2026

Symposium for Data-Driven Approaches in X-ray Absorption Spectroscopy (DataXAS)

Advanced Approaches to EXAFS Analysis

ETH Zurich, Siemens Auditorium
Campus Hönggerberg

Tuesday 6 January

09:00

Advanced Approaches to EXAFS Analysis
Session | **Location:** ETH Zurich, Siemens Auditorium, Campus Hönggerberg

09:00–09:40

Unlocking Hidden Functionality Descriptors in Nanomaterials with Machine Learning – Driven XAFS

Speaker
Prof. Anatoly Frenkel

09:40–10:05

Convolutional AutoEncoder for Anomaly Detection and Chemical-State Identification of XAS Spectra in Operando Catalysis

Speaker
Athar Khodabakhsh

10:30–11:10   **Coffee Break**

11:10–11:35

Noise-Aware Multimodal Deep Learning for Real-Time Prediction of EXAFS Fitting Quality

Speaker
Lei JIANG

11:35–12:15   **Machine learning algorithms for EXAFS analysis**

Speaker
Dr Janis Timoshenko

12:30