

## Session Program

4-8 Sept 2023



## Joint Annual Meeting of the Swiss and Austrian Physical Society 2023

*Surfaces, Interfaces and Thin Films*

# Wednesday 6 September

17:00

## Surfaces, Interfaces and Thin Films: I: Surface Science

Session | Location: Room 114

17:00–17:30

### 201 Creation of the elusive carbon allotrope cyclo[18]carbon; a cyclic carbon molecule

**Speaker**

Katharina Kaiser

17:30–17:45

### 202 Intrinsic defects on PtSe<sub>2</sub> vdW single crystals studied with ncAFM

**Speaker**

Igor Sokolovic

17:45–18:00

### 203 Selective adsorption of DHTAP on the nanostructured Cu-CuO stripe phase

**Speaker**

Claudia López-Posadas

18:00–18:15

### 204 Heterogeneous Photocatalysis: Alcohols on Bare and Metal-decorated Titania(110) and Hematite(012)

**Speaker**

Dr Moritz Eder

18:15–18:30

### 205 Exploring the surface atomic and electronic structure of the multiferroic Rashba semiconductor Ge<sub>1-x</sub>MnxTe

**Speaker**

Martin Heinrich

18:30–18:45

### 206 An STM investigation on the CO<sub>2</sub> activation and conversion on Au/MgO(001) ultrathin film

**Speaker**

Dr Francesco Presel

18:45–19:00

### 207 Structure and nanoscale dynamics at carbon materials and inter-faces: From organic aromatics to nucleobases

**Speaker**

Philipp Maier

19:00–19:15

### 208 C<sub>2</sub>H<sub>4</sub> Adsorption on Clean and Rh-Decorated Fe<sub>3</sub>O<sub>4</sub>(001) Surface

**Speaker**

Chunlei Wang

19:15-19:30

**209 Atomic-Level Studies of CO/Rh1 and (CO)<sub>2</sub>/Rh1 Formation on an Fe<sub>3</sub>O<sub>4</sub>(001) support**

**Speaker**

Panukorn Sombut

19:30

## Thursday 7 September

14:00

### Surfaces, Interfaces and Thin Films: II: Thin Films and Heterostructures

Session | Location: Room 114

14:00–14:30

#### 211 Fabrication of two-dimensional magnets by implanting phyllosilicates with Fe ions

**Speaker**

Christian Teichert

14:30–14:45

#### 212 Thin Film Structure of the Asymmetric Ph-BTBT-10 Molecule for Application in Organic Thin Film Transistors

**Speaker**

Roland Resel

14:45–15:00

#### 214 Ultrathin $\text{La}_{0.8}\text{Sr}_{0.2}\text{MnO}_3$ films with enhanced magnetic properties

**Speaker**

Dr Gyanendra Panchal

15:00–15:15

#### 215 Revealing the electronic structures of SrTiO<sub>3</sub> membranes and related heterostructures

**Speaker**

Hang Li

15:15–15:30

#### 216 Long Ranged Proximity Induced Interactions in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ - $\text{Sr}_2\text{IrO}_4$ Thin Film Multilayers Revealed by X-ray Absorption Spectroscopy

**Speaker**

Jonas Knobel

15:30–15:45

#### 217 Characterization of Atomically Precise Graphene Nanoribbons by Raman Spectroscopy

**Speaker**

Jeong Ha Hwang

15:45–16:00

#### 218 Intercalation of graphene nanoribbons with carbenes in ultra-high vacuum

**Speaker**

Dominik Lüthi

16:00–16:15

#### 219 Measuring Surface Parameters of Intercalated Graphene and their Correlation with the Substrate Coupling Strength

16:30

**Speaker**

Noah J. Hourigan

17:00

**Surfaces, Interfaces and Thin Films: III: Method Development****Session** | **Location:** Room 114

17:00-17:15

**221 Distance-Dependence of Orbital Density Mapping Using a CO-Functionalized STM Tip****Speaker**

Fabian Paschke

17:15-17:30

**222 Microwave reflectance calibration in a scanning tunnelling microscope****Speaker**

Dr Bareld Wit

17:30-17:45

**223 Correlation between 2- and 3-dimensional crystallographic lattices for epitaxial analysis****Speaker**

Josef Simbrunner

17:45-18:00

**224 Optimized Infrared Reflection Absorption Spectroscopy for Metal Oxides: Overcoming Challenges of Low Reflectivity and Sub-Monolayer Coverage****Speaker**

Jiri Pavelec

18:00-18:15

**225 The Surface Tension of Water in its Pure Vapor****Speaker**

Alexander Syböck

18:15-18:30

**226 Surface band-bending response to charge redistribution and adsorbates in the ZnO/electrolyte interface probed by in-situ Spectroscopic Ellipsometry****Speaker**

Luis Rosillo

18:30-18:45

**227 Quantitative Surface Structure of Water on Hematite: Experiment vs Theory****Speaker**

Paul Ryan

18:45-19:00

**228 A Novel Four-Terminal Suspended Device for Nanoscale Thermal Characterization****Speaker**

Giulio de Vito

19:00