

## **Session Program**

**August 30, 2021 to September 3, 2021**



## **Joint Annual Meeting of ÖPG and SPS 2021**

### ***Surfaces, Interfaces and Thin Films***

University of Innsbruck  
Technikerstr. 25, Viktor-Franz-Hess-Haus, AT-6020 Innsbruck

# Tue, August 31

1:30 PM

## Surfaces, Interfaces and Thin Films: I: 2D materials

Session | Location: Room C

1:30 - 1:45 PM

### 201 Borophene synthesis on an anisotropic Pt(110) surface

**Speaker**

Dominik Steiner

1:45 - 2:00 PM

### 202 Non-classical, two-step nucleation of h-BN on Pt(110)

**Speaker**

Marco Thaler

2:00 - 2:15 PM

### 203 Band structure and image potential states of h-BN/Cu(111)

**Speaker**

Mr Jan Eric Beckord

2:15 - 2:30 PM

### 204 From energy dissipation on Dirac materials to open questions in 2D materials growth

**Speaker**

Dr Anton Tamtögl

2:30 - 2:45 PM

### 205 Probing magnetism of iron-rich phyllosilicates: semi-quantitative Magnetic Force Microscopy of 2D-van der Waals magnets in the monolayer limit

**Speaker**

Lukas Ludescher

2:45 - 3:00 PM

### 206 Excitation Spectrum of Spin Orbit Coupled Monolayers

**Speaker**

Dominik Kreil

3:00 - 3:15 PM

### 207 Magnetic tuning of mechanical dissipation in quantum graphene

**Speaker**

Alexina Ollier

3:15 - 3:30 PM

### 208 Cubic response of 2-dimensional charge layers

**Speaker**

Helga Böhm

3:30 - 3:45 PM

### 209 Quantification of Aligned GNRs Transfer Efficiency Using Raman Spectroscopy

**Speaker**

Rimah Darawish

3:45 – 4:00 PM

**210 On-surface synthesis of graphene nanoribbons on the superconducting Ag/Nb(110) substrate****Speaker**

Jung-Ching Liu

4:00 PM

4:30 PM

**Surfaces, Interfaces and Thin Films: II: Metal Oxides****Session** | **Location:** Room C

4:30 – 4:45 PM

**211 UHV Growth and Characterization of Ga<sub>2</sub>O<sub>3</sub> on Cu<sub>2</sub>O(111)****Speaker**

Mert Taskin

4:45 – 5:00 PM

**212 Investigations of polarons in hematite  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub>(1 $\overline{1}$ 02) by means of nc-AFM and KMC****Speaker**

Dr Jesús Redondo

5:00 – 5:15 PM

**213 Thermal stability and CO-induced mobility of single Pt adatoms supported on the  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub>(1 $\overline{1}$ 02) surface****Speaker**

Mr Ali Rafsanjani Abbasi

5:15 – 5:30 PM

**214 Comparison of single Rh adatoms on  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub>(1-102) and TiO<sub>2</sub>(110) stabilized by adsorbed water****Speaker**

Lena Haager

5:30 – 5:45 PM

**215 Polarons in Single Atom Catalysts: Case Study of Me<sub>1</sub> = [Au<sub>1</sub>, Pt<sub>1</sub>, Rh<sub>1</sub>] on TiO<sub>2</sub>(110)****Speaker**

Mr Panukorn Sombut

5:45 – 6:00 PM

**216 Local hydrophobicity on an oxide surface: In<sub>2</sub>O<sub>3</sub>(111)****Speaker**

Margareta Wagner

6:00 – 6:15 PM

**217 The polar KTaO<sub>3</sub>(001) surface: Electronic structure and CO adsorption****Speaker**

Martin Setvin

6:15 – 6:30 PM

**218 Bulk-terminated SrTiO<sub>3</sub>(001) studied at the atomic scale with nc-AFM****Speaker**

Igor Sokolović

6:30 - 6:45 PM

**219 Enhancing magnetism in ultrathin  $\text{La}_{0.8}\text{Sr}_{0.2}\text{MnO}_3$  films using antiferromagnetic buffer layers**

**Speaker**

Federico Stramaglia

6:45 PM

# Wed, September 1

2:00 PM

## Surfaces, Interfaces and Thin Films: III: Method Development

Session | Location: Room C

2:00 – 2:15 PM

### 221 Real-time MOKE measurements of CoTMPP on magnetic Ni/Cu(110)-(2x1)O

**Speaker**

Ms Gizem Mendirek

2:15 – 2:30 PM

### 222 Vienna Package for TensErLEED I: A new environment for analysis and calculation of LEED I(V) data

**Speaker**

Florian Kraushofer

2:30 – 2:45 PM

### 223 Thermal desorption of organic molecules from cellulose based surfaces

**Speaker**

Robert Schennach

2:45 – 3:00 PM

### 224 Fast Acquisition of Force Volume Data in Atomic Force Microscopy at Cryostatic Temperatures with a Tuning Fork Cantilever using Intermodulation Products

**Speaker**

Marco Zutter

3:00 – 3:15 PM

### 225 Lippmann-Schwinger Description of the Final State in Photoemission Simulations

**Speaker**

Mathias Schwendt

3:15 – 3:30 PM

### 226 Photoemission Tomography on the Time-Domain: Simulation of Photoelectron Spectroscopy from Time-Dependent Density Functional Theory

**Speaker**

Mr Christian Simon Kern

3:30 – 3:45 PM

### 227 Surface hydrogen concentration on metal hydrides by electron spectroscopy

**Speaker**

Emanuel Billeter

3:45 – 4:00 PM

### 228 Factors influencing surface carbon contamination in ambient-pressure X-ray photoelectron spectroscopy (APXPS) experiments

**Speaker**

Nicolo Comini

4:00 – 4:15 PM

**229 Design of an IRAS Setup to Investigate Adsorbates on Metal-Oxide Single Crystals****Speaker**

David Rath

4:15 – 4:30 PM

**230 Sub-picosecond transient absorption of PbS nanocrystals on gold****Speaker**

Dario Grimaldi

4:30 PM

5:00 PM

**Surfaces, Interfaces and Thin Films: IV: Molecules on Surfaces**

Session | Location: Room C

5:00 – 5:15 PM

**231 Interfacial Actinide Coordination Chemistry: Bis(porphyrinato)thorium Formation, Rotation, and Characterization****Speaker**

Erik Rheinfrank

5:15 – 5:30 PM

**232 Molecular orientation and phase transitions of DHTAP on Cu(110)****Speaker**

Claudia López-Posadas

5:30 – 5:45 PM

**233 Uni-directional rotation of molecular motors on Cu(111)****Speaker**

Monika Schied

5:45 – 6:00 PM

**234 Charge Transfer on Organo-Metallic Interfaces Controlled by Adsorbate Orientation****Speaker**

Thomas Georg Boné

6:00 – 6:15 PM

**235 Morphology drives the self-metalation of porphyrins on flat, thin MgO films.****Speaker**

Dr Francesco Presel

6:15 – 6:30 PM

**236 Stable metal-organic network on a weakly-interacting substrate: Fe-TCNQ on graphene****Speaker**

Dr Zdenek Jakub

6:30 – 6:45 PM

**237 Special Structures of a Prototypical Organic-Semiconductor Transparent-Electrode Interface: CuPc on In<sub>2</sub>O<sub>3</sub>(111)**

**Speaker**  
Matthias Blatnik

6:45 - 7:00 PM

**238 Biomimetic Passive Cooling**

**Speaker**  
August Hammel

7:00 PM

## Thu, September 2

2:30 PM

### Surfaces, Interfaces and Thin Films: V: Thin Films and Interfaces

Session | Location: Room C

2:30 – 2:45 PM

#### 241 Core@multi-shell structures in helium droplets: Au nanoparticles covered by a hexane layer and rhodamine B fluorophores

Speaker

Dr Florian Lackner

2:45 – 3:00 PM

#### 242 Color-Changing Coatings to Detect Critical-Temperature Conditions in High-Performance Fiber Applications

Speaker

Dirk Hegemann

3:00 – 3:15 PM

#### 243 Growth and morphology of ultrathin lithium fluoride deposited on Ag(100)

Speaker

Vladyslav Romankov

3:15 – 3:30 PM

#### 244 Hybrid plasmon-phonon surface modes at CdZnO-sapphire interfaces: Grating coupling and applications

Speaker

Eduardo Martínez Castellano

3:30 – 3:45 PM

#### 245 Electrical Excitation of Long-Range Surface Plasmons in Photonic Crystal/OLED Structure with Two Metal Nanolayers

Speaker

Dr Serguei Sekatski

3:45 – 4:00 PM

#### 246 Momentum-resolved electronic structure of a NbN/GaN superconductor/semiconductor heterojunction

Speaker

Vladimir N. Strocov

4:00 – 4:15 PM

#### 247 Aluminum and Copper Thin Contacts Augmented with Gallium for Flexible Electronics Applications

Speaker

Dr Alexey Minenkov

4:30 PM