

## **Session Program**

**Aug 28 - 31, 2018**



## **Annual meeting of the Swiss Physical Society 2018**

### ***Magnetism and Spintronics at the Nanoscale***

EPFL

# Wed, August 29

1:30 PM

## Magnetism and Spintronics at the Nanoscale: I

Session | Location: EPFL, CE 1

1:30 - 2:00 PM

### 801 Single Atom Magnets at Surfaces

**Speaker**

Harald Brune

2:00 - 2:15 PM

### 802 Chemically selective reorganization of molecular Bi-layers films driven by molecule-substrate interactions

**Speaker**

Mr Mehdi Heydari

2:15 - 2:30 PM

### 803 Antiferromagnetic properties of individual goethite nanoparticles studied by temperature and orientation-dependent X-ray spectromicroscopy

**Speaker**

David M. Bracher

2:30 - 2:45 PM

### 804 Imaging scale-invariant antiferromagnetic textures in a nickel oxide

**Speaker**

Jonathan Pellicciari

2:45 - 3:00 PM

### 805 Imaging the magnetization reversal in strongly exchange-coupled bilayers

**Speaker**

Dr Andrada-Oana Mandru

3:00 - 3:15 PM

### 806 Damping Modulation in Magnetic Thin Films

**Speaker**

Dr Susmita Saha

3:15 - 3:30 PM

### 807 Skyrmion formation in SRO-SiO epitaxial bilayer

**Speaker**

Dr Mirko Bacani

3:30 - 3:45 PM

### 808 Asymmetric domain wall nucleation in DMI coupled in-plane and out-of-plane magnetic wires

**Speaker**

Phuong Dao

3:45 - 4:00 PM

### 809 Edge states in graphene: spin polarization and how to protect them

**Speaker**

Mr Amogh Kinikar

4:00 PM

## Thu, August 30

2:00 PM

### Magnetism and Spintronics at the Nanoscale: II

Session | Location: EPFL, CE 1

2:00 – 2:30 PM

#### 811 Magnetic domain walls - from basics to applications

**Speaker**

Dr Rolf Allenspach

2:30 – 2:45 PM

#### 812 Velocity enhancement by synchronization of magnetic domain walls

**Speaker**

Dr Ales Hrabec

2:45 – 3:00 PM

#### 813 Chiral coupling between in-plane and out-of-plane nanomagnetic patterns induced by interfacial Dzyaloshinskii-Moriya interaction

**Speaker**

Dr Zhaochu Luo

3:00 – 3:15 PM

#### 814 Spin-orbit torque induced domain switching in antiferromagnet/ferromagnet heterostructures

**Speaker**

Gunasheel Krishnaswamy

3:15 – 3:30 PM

#### 815 Effects of oxidation on the spin-orbit torques and topological domain textures in ultrathin Pt/Co/AlO<sub>x</sub> layers

**Speaker**

Junxiao Feng

3:30 – 3:45 PM

#### 816 Emergent Dynamic Chirality in a Thermally Driven Artificial Spin Ratchet

**Speaker**

Sebastian Gliga

3:45 – 4:00 PM

#### 817 Exploration of Topological Defects in Kagome Artificial Spin Ice via Magnetic Force Microscopy and Brillouin Light Scattering Spectroscopy

**Speaker**

Dr Vinayak Shantaram Bhat

4:00 – 4:15 PM

#### 818 Nanoscale Magnetic Imaging of Artificial Spin Ices Using Single Spins in Diamond

**Speaker**

Natascha Hedrich

4:15 - 4:30 PM

**819 Phase diagram of dipolar-coupled XY moments on disordered square lattices**

**Speaker**

Dominik Schildknecht

4:30 PM