

## **Session Program**

**4-8 Sept 2023**



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

***Atomic Physics and Quantum Optics***

## Tuesday 5 September

14:00

### Atomic Physics and Quantum Optics: I

Session | Location: Room 116

14:00–14:30

#### 【401】 Ultra-low quantum decoherence nano-optomechanical systems

##### Speaker

Dr Mohammad Bereyhi

14:30–14:45

#### 【402】 Optical coherent feedback control of a mechanical oscillator

##### Speaker

Maryse Ernzer

14:45–15:00

#### 【403】 Photophysics of single NV centers in diamond and its application to electric field detection at cryogenic temperatures

##### Speaker

Jodok Happacher

15:00–15:15

#### 【404】 Integrated polariton condensate in silicon-on-insulator high contrast grating microcavities

##### Speaker

Mr Pietro Tassan

15:15–15:30

#### 【405】 Chiral sensing with void modes

##### Speaker

Diana Shakirova

15:30–15:45

#### 【406】 Polarimetric measurements of the bright triplet emission of single cesium lead halide perovskite quantum dots at cryogenic temperature

##### Speaker

Virginia Oddi

15:45–16:00

#### 【407】 A Keldysh Path Integral Approach to Input-Output Theory

##### Speaker

Aaron Daniel

16:00–16:15

#### 【408】 Exploring molecular properties using far-field matter-wave diffraction

##### Speaker

Ksenija Simonović

16:15–16:30

#### 【409】 Cavity-mediated coupling of terahertz antiferromagnetic resonances in distant crystals

16:30

**Speaker**  
Marcin Bialek

17:00

## Atomic Physics and Quantum Optics: II

**Session** | **Location:** Room 116

17:00–17:30

### **【411】 Minimalistic efficient quantum devices build of dipole coupled nano arrays of quantum emitters**

**Speaker**  
Prof. Helmut Ritsch

17:30–17:45

### **【412】 Cavity-QED Quantum Simulator of Random Spin Models**

**Speaker**  
Francesca Orsi

17:45–18:00

### **【413】 Entanglement-induced collective multiparticle interference**

**Speaker**  
Tommaso Faleo

18:00–18:15

### **【414】 Einstein-Podolsky-Rosen experiment with two Bose-Einstein condensates**

**Speaker**  
Paolo Colciaghi

18:15–18:30

### **【415】 The Wave-Particle Duality in Quantum Heat Engine**

**Speaker**  
Marcelo Janovitch Broinizi Pereira

18:30–18:45

### **【416】 Verification of the area law of mutual information in a quantum field simulator**

**Speaker**  
Mr Mohammadamin Tajik

18:45–19:00

### **【417】 Positron manipulation and control at ASACUSA**

**Speaker**  
Dr Daniel James Murtagh

19:00