

## **Session Program**

**Aug 28 - 31, 2018**



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

### ***Atomic Physics and Quantum Optics***

EPFL

## Thu, August 30

2:00 PM

### Atomic Physics and Quantum Optics: I: Quantum Science

Session | Location: EPFL, CE 5

14:00 - 14:30

#### 【401】 Quantum Computation and Many-Body Physics with Trapped Ions

##### Speaker

Petar Jurcevic

14:30 - 14:45

#### 【402】 Einstein-Podolsky-Rosen steering between spatially separated regions in Bose-Einstein condensates

##### Speaker

Boris Clément Décamps

14:45 - 15:00

#### 【403】 Tunable nanoscale defect cavities for exciton-polariton condensates at room temperature

##### Speaker

Darius Urbonas

15:00 - 15:15

#### 【404】 Optically probed phonon-Fock state dynamics

##### Speaker

Christophe Galland

15:15 - 15:30

#### 【405】 Motional Sideband Asymmetry in Quantum Optomechanics in the Presence of Kerr-type Nonlinearities

##### Speaker

Liu Qiu

15:30 - 15:45

#### 【406】 Backaction evasion measurement of mechanical motion in the optical domain

##### Speakers

Liu Qiu, Mr Itay Shomroni

3:45 PM

5:00 PM

### Atomic Physics and Quantum Optics: II: Quantum Metrology

Session | Location: EPFL, CE 5

17:00 - 17:30

#### 【411】 MEMS Atomic Vapor Cells for Quantum Technologies

##### Speaker

Dr Sylvain Karlen

17:30 - 17:45

#### 【412】 High-performance Rb atomic clock demonstration using additive manufactured microwave cavity

**Speaker**

Dr Christoph Affolderbach

17:45 - 18:00

**[413] Generation of pure amplitude and frequency modulation in a quantum cascade laser using an integrated heater**

**Speaker**

Mr Atif Shehzad

18:00 - 18:15

**[414] Time-resolved two color X-ray pump/X-ray probe photoelectron spectroscopy at XFELs**

**Speaker**

Dr Andre Al Haddad

6:15 PM