

## **Session Program**

**8-12 Apr 2019**

# **Light scalars: origin, cosmology, astrophysics, and experimental probes**

## ***Contributed Talks***

Centro de Ciencias de Benasque Pedro Pascual  
Av. Francia 17 Benasque 22440 Spain

# Monday 8 April

17:00

## Contributed Talks

**Session** | **Location:** Centro de Ciencias de Benasque Pedro Pascual, Av. Francia 17 Benasque 22440 Spain

17:00–17:15 **The axion - dark photon - 21cm connection**

**Speaker**  
Josef Pradler

17:30–17:45 **Axion properties in GUTs**

**Speaker**  
Carlos Tamarit

18:00–18:15 **Axions from strings**

**Speaker**  
Edward Hardy

18:30

## Tuesday 9 April

17:00

### Contributed Talks

**Session** | **Location:** Centro de Ciencias de Benasque Pedro Pascual, Av. Francia 17 Benasque 22440 Spain

17:00–17:15

#### Non-standard EW phase transition & new light states

**Speaker**

Oleksii Matsedonskyi

17:30–17:45

#### Higgs-mediated bound states in dark matter models

**Speaker**

Julia Harz

18:00–18:15

#### Dark energy detection with laboratory experiments

**Speaker**

Clare Burrage

18:30

## Wednesday 10 April

12:00

### Contributed Talks

**Session** | **Location:** Centro de Ciencias de Benasque Pedro Pascual, Av. Francia 17 Benasque 22440 Spain

12:00–12:15

#### Gauge field and fermion production via Chern-Simons coupling

**Speaker**

Kyohei Mukaida

13:00

17:00

### Contributed Talks

**Session** | **Location:** Centro de Ciencias de Benasque Pedro Pascual, Av. Francia 17 Benasque 22440 Spain

17:00–17:15

#### Relaxion updates

**Speaker**

Enrico Morgante

17:30–17:45

#### Baryogenesis during relaxation

**Speaker**

Rick S. Gupta

18:00–18:15

#### Implication of supercooling on DM in composite Higgs

**Speaker**

Yann Gouttenoire

18:30–18:45

#### Light scalar dark matter coupled to the trace of the energy-momentum tensor

**Speaker**

Anna Tokareva

18:45

## Thursday 11 April

18:00

### Contributed Talks

**Session** | **Location:** Centro de Ciencias de Benasque Pedro Pascual, Av. Francia 17 Benasque 22440 Spain

18:00–18:15 **Hot axions and the  $H_0$  tension**

**Speaker**

Alessio Notari

18:30–18:45 **Probing muonic forces and dark matter at kaon factories**

**Speaker**

Diego Redigolo

19:00–19:15 **A Fresh Look at the Calculation of Tunneling Actions**

**Speaker**

Jose Ramon Espinosa Sedano

19:15

# Friday 12 April

17:00

## Contributed Talks

**Session** | **Location:** Centro de Ciencias de Benasque Pedro Pascual, Av. Francia 17 Benasque 22440 Spain

17:00–17:15 **Detecting axion-like DM with linearly polarized pulsar light**

**Speaker**  
Tao Liu

17:30–17:45 **Scalar dark matter: a non-minimal perspective**

**Speaker**  
Gonzalo Alonso Alvarez

18:00–18:15 **New LHC searches for resonances of 1 to 100 GeV**

**Speaker**  
Filippo Sala

18:30