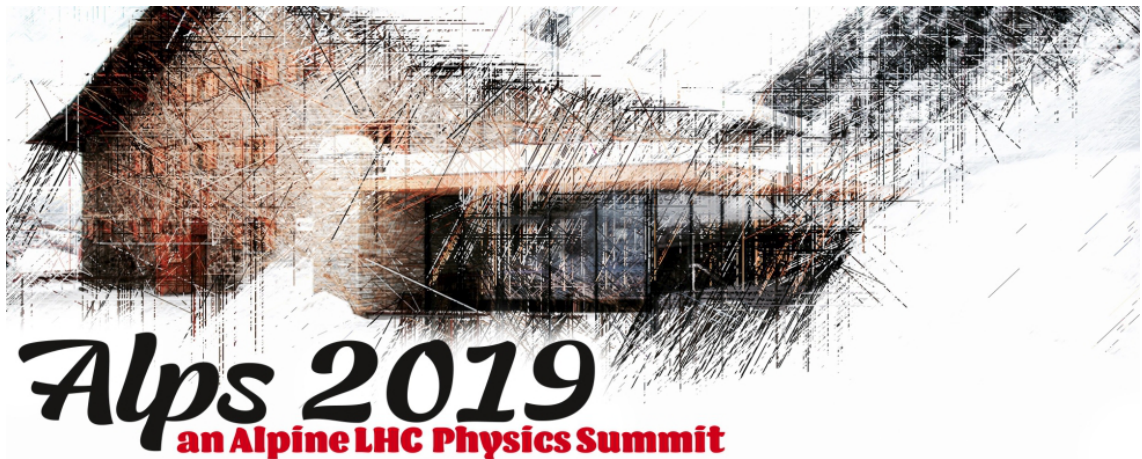


## **Session Program**

**22-27 Apr 2019**



## **ALPS2019 -- Fourth Alpine LHC Physics Summit**

### ***Overview talks***

UZ Obergurgl  
University Center Obergurgl Gaisbergweg 5 6456 Obergurgl Austria

# Tuesday 23 April

08:30

## Overview talks: Flavour and hadron physics; session chair: Jessie Shelton

**Session** | **Location:** UZ Obergurgl, University Center Obergurgl Gaisbergweg 5 6456 Obergurgl Austria

08:30–09:00 **Quantum gravity implications for particle physics**

**Speaker**  
Astrid Eichhorn

09:05–09:35 **High energy neutrinos**

**Speaker**  
Walter Winter

09:40–10:10 **Hot beverages**

10:10–10:40 **B-physics anomalies, fluctuations and patterns: a status report**

**Speaker**  
Sebastien Descotes-Genon

10:45–11:15 **Dark sectors at low energy colliders**

**Speaker**  
Torben Ferber

11:20–11:50 **Recent results from LHCb**

**Speaker**  
Paula Alvarez Cartelle

12:00

16:45

## Overview talks: The standard model and Higgs physics; session chair: Tim Stefaniak

**Session** | **Location:** UZ Obergurgl, University Center Obergurgl Gaisbergweg 5 6456 Obergurgl Austria

16:45–17:15 **Electroweak diboson - LHC measurements and theory**

**Speaker**  
Dieter Zeppenfeld

17:20–17:50 **Hot beverages**

17:50

# Wednesday 24 April

08:30

## Overview talks: Dark matter; session chair: Pat Scott

**Session** | **Location:** UZ Obergurgl, University Center Obergurgl Gaisbergweg 5 6456 Obergurgl Austria

08:30–09:00

### Dark matter searches at the intensity frontier

**Speaker**

Luca Doria

09:05–09:35

### Direct detection searches: an overview

**Speaker**

Federica Petricca

09:40–10:10

### Hot beverages

10:10–10:40

### Multi-messenger probes for dark matter

**Speaker**

Francesca Calore

10:45–11:15

### Dark matter: Between astronomy and particle physics

**Speaker**

Justin Read

11:20

# Thursday 25 April

08:30

## Overview talks: Future facilities; session chair: Axel Mass

**Session** | **Location:** UZ Obergurgl, University Center Obergurgl Gaisbergweg 5 6456 Obergurgl Austria

08:30–09:00 **HL-LHC prospects**

**Speaker**

Francesca Ungaro

09:05–09:35 **European particle physics strategy document - update**

**Speaker**

Manfred Jeitler

09:40–10:10 **Hot beverages**

10:10–10:40 **New detectors at the lifetime frontier of the LHC and beyond**

**Speaker**

John Paul Chou

10:45–11:15 **FCC**

**Speaker**

Werner Riegler

11:20–11:50 **Future colliders, expectations and reality**

**Speaker**

MIHOKO NOJIRI

12:00

## Friday 26 April

08:30

### Overview talks: Beyond the Standard Model physics; session chair: Francesca Ungaro

**Session** | **Location:** UZ Oberurgl, University Center Oberurgl Gaisbergweg 5 6456 Oberurgl Austria

08:30–09:00 **Lattice BSM**

**Speaker**

Oliver Witzel

09:05–09:35 **Neutrinos at colliders and connections to lepton number violation**

**Speaker**

Martin Hirsch

09:40–10:10 **Hot beverages**

10:10–10:40 **LHC searches for heavy neutral leptons and displaced signatures**

**Speaker**

Lesya Shchutska

10:45–11:15 **Effective field theory**

**Speaker**

Ken Mimasu

11:20

# Saturday 27 April

08:50

## Overview talks: The standard model and Higgs physics; session chair: Lesya Shchutska

**Session** | **Location:** UZ Obergurgl, University Center Obergurgl Gaisbergweg 5 6456 Obergurgl Austria

08:50–09:20 **Electroweak physics with multibosons at the CMS experiment**

**Speaker**

Saptaparna Bhattacharya

09:25–09:45 **Hot beverages**

09:45–10:15 **ATLAS/CMS Higgs measurements/searches update**

**Speaker**

Cyril Pascal Becot

10:20–10:50 **Higgs physics beyond the SM**

**Speaker**

Dr Tim Stefaniak

11:00