

Session Program

Apr 15 - 20, 2018



ALPS2018 -- Third Alpine LHC Physics Summit

Overview talks

UZ Obergurgl
University Center Obergurgl Gaisbergweg 5 6456 Obergurgl Austria

Mon, April 16

8:30 AM

Overview talks: Flavor and hadron physics

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

08:30 - 09:00 **Neutrinos and BSM physics**

Speaker

Dr Frank Deppisch

09:05 - 09:35 **Belle II results and potential**

Speaker

Peter Krizan

09:40 - 10:10 **Hot beverage break**

10:10 - 10:40 **Charged lepton flavor violation**

Speaker

Adrian Signer

10:45 - 11:15 **B physics anomalies (LFV): theoretical interpretation**

Speaker

Ulrich Nierste

11:20 - 11:35 **Explaining the flavor anomalies with leptoquarks**

Speaker

Andreas Crivellin

12:00 PM

Tue, April 17

8:30 AM

Overview talks: Higgs and the standard model

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

08:30 - 09:00 **Extended Higgs sector beyond the MSSM and the LHC**

Speaker
Rui Santos

09:05 - 09:35 **Higgs at the LHC**

Speaker
Anne-Marie Magnan

09:40 - 10:10 **Hot beverage break**

10:10 - 10:40 **Constraining BSM through SM measurements**

Speaker
Alex Pomarol

10:45 - 11:15 **SM+top at the LHC: overview with focus on substructure**

Speaker
Thomas McCarthy

11:20 - 11:50 **Higgs and SM at the HL-LHC**

Speaker
Tae Jeong Kim

12:00 PM

Wed, April 18

8:30 AM

Overview talks: Physics beyond the standard model

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

08:30 - 09:00 **Self-interacting dark matter**

Speaker

Kai Ronald Schmidt-Hoberg

09:05 - 09:35 **SUSY overview**

Speaker

Werner Rudolf Porod

09:40 - 10:10 **Hot beverage break**

10:10 - 10:40 **Status and prospect of LHC BSM searches**

Speaker

Aniello Spiezia

10:45 - 11:15 **BSM physics and the lattice**

Speaker

Luigi Del Debbio

11:20 - 11:50 **BSM physics from asymptotic safety**

Speaker

Daniel Litim

12:00 PM

Thu, April 19

8:30 AM

Overview talks: Dark matter

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

08:30 - 09:00 **Gravitation waves and dark matter connection**

Speaker

Masha Baryakhtar

09:05 - 09:20 **Long-lived particle searches at the LHC**

Speaker

Heather Russell

09:30 - 10:00 **Hot beverage break**

10:00 - 10:30 **Dark matter searches at the LHC**

Speaker

John Mark Butler

10:35 - 11:05

Extending the boundaries of dark matter direct detection experiments

Speaker

Christoforos kouvaris

11:15 - 11:45 **Indirect searches for dark matter**

Speaker

Suzan Basegmez Du Pree

12:00 PM

Fri, April 20

8:30 AM

Overview talks: Future colliders

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

08:30 - 09:00 **Composite Higgs theory**

Speaker

Dr Florian Goertz

09:05 - 09:35 **BSM at the HL-LHC**

Speaker

Hideyuki Oide

09:40 - 10:10 **Hot beverage break**

10:10 - 10:55 **Future colliders (linear and circular)**

Speaker

Roman Poeschl

11:05 - 11:35 **Open questions after the HL-LHC**

Speaker

Georg Ralf Weiglein

12:00 PM