

Session Program

26-31 Mar 2023



ALPS2023 -- Anomalies in Particle Physics

Keynotes

UZ Obergurgl
University Center Obergurgl Gaisbergweg 5 6456 Obergurgl Austria

Monday 27 March

08:30

Keynotes

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

08:30–09:00 **Status of flavour anomalies from LHCb (20+10)**

Speakers

Patrizia De Simone, Patrizia De Simone

09:00–09:30 **LFU and semileptonic B decays at Belle (20+10)**

Speaker

Luka Santelj

09:30–10:00 **b->sll transitions (20+10)**

Speaker

Bernat Capdevila

10:00

10:30

Keynotes

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

10:30–11:00 **Recent semileptonic results from Belle II (20+10)**

Speaker

Chaoyi Lyu

11:00–11:30 **Latest flavour physics results from CMS/ATLAS (20+10)**

Speaker

Prof. Prafulla Behera

11:30–12:00 **New Physics in b->sll and b->ctauu (20+10)**

Speaker

Syuhei Iguro

12:00

19:15

Keynotes

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

19:15–19:45 **tau physics at Belle II (20+10)**

Speaker

Navid Khandan Rad

20:00

Tuesday 28 March

08:30

Keynotes

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

08:30–09:00 **Status and prospects of the Muon $g-2$ experiment at FNAL (20+10)**

Speaker

Alberto Lusiani

09:00–09:45 **$g-2$ and new physics (30+15)**

Speaker

Dominik Stockinger

09:45–10:30 **The Cabibbo angle anomaly and EW fits (30+15)**

Speaker

Martin Hoferichter

10:30

18:15

Keynotes

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

18:15–18:45 **QCD contributions to the muon anomalous magnetic moment (20+10)**

Speaker

Gernot Eichmann

18:45

Wednesday 29 March

08:30

Keynotes

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

08:30–09:15 **Overview and LHC searches for New Physics (30+15)**

Speaker

Greg Landsberg

09:15–10:00 **Overview of LHC anomalies (30+15)**

Speaker

Bruce Mellado Garcia

10:00

11:00

Keynotes: Automated One-Loop Matching of BSM Models

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

Convener: Javier Fuentes-Martin

11:00–11:30 **Automated One-Loop Matching of BSM Models**

Speaker

Javier Fuentes-Martin

11:30

Thursday 30 March

08:30

Keynotes

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

08:30–09:00

Towards Constraining Dark Sectors with 21-cm Cosmology (20+10)

Speaker

Tomer Volansky

09:00–09:30

Anomalies in short-baseline neutrino experiments (20+10)

Speaker

Dr Pilar Coloma

09:30–10:00

Tensions between terrestrial and cosmological neutrino mass determinations (20+10)

Speaker

Thomas Schwetz

10:00

10:30

Keynotes

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

10:30–11:00

21cm and the radio background excess (20+10)

Speakers

Joshua Ruderman, Joshua Thomas Ruderman

11:00–11:30

New constraints on the dark matter-neutrino and the dark matter-photon scattering cross-sections (20+10)

Speaker

Alejandro Ibarra

11:30–12:00

Small-scale tensions and self-interacting dark matter

Speaker

Felix Kahlhoefer

12:00

19:30

Keynotes

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

19:30–20:00

$Bd,s \rightarrow \mu^+ \mu^- \gamma$ phenomenology overview

Speakers

Diego Guadagnoli, Diego Guadagnoli, Diego Guadagnoli, Diego Guadagnoli

20:00

Friday 31 March

08:30

Keynotes

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

08:30–09:00

Ultralight dark matter generated by thermal fermions

Speaker

Eung Jin Chun

09:00–09:30

Nanograv anomaly

Speaker

Pedro Klaus Schwaller

09:30