

Session Program

10-13 Oct 2023



42nd International Symposium on Physics in Collision

Plenary Session

University of Tarapaca, Arica, Chile

The conference will take place in the Universidad de Tarapaca, Campus Velasquez, in Arica, Chile in physical presence. It is expected that speakers will join physically, but in some cases online presentations will be possible.

Monday 9 October

11:00

Plenary Session

Session | **Location:** Aula Magna, Campus Velasquez, Universidad de Tarapaca, Arica, Chile | **Conveners:** Yuji Yamazaki, Norbert Neumeister

11:00–11:30

New results from 13.6 TeV pp runs

Speaker

Marco Pieri

11:30–12:00

Properties of the standard model Higgs boson

Speaker

Kajari Mazumdar

12:00–12:30

Rare processes and search for new phenomena through Higgs bosons

Speaker

Bernd Stelzer

12:30–13:00

Top quark production, properties and rare processes

Speaker

Michal Dubovsky

13:00

14:30

Plenary Session

Session | **Location:** Aula Magna, Campus Velasquez, Universidad de Tarapaca, Arica, Chile | **Conveners:** Michal Marcisovsky, Prof. Livia Ludhova

14:30–15:00

Searches for neutrinoless double beta decay

Speaker

Dr Ralph Massarczyk

15:00–15:30

Global fits of neutrino oscillation parameters and open questions in neutrino physics

Speaker

David Vanegas Forero

15:30

16:00

Plenary Session

Session | **Location:** Aula Magna, Campus Velasquez, Universidad de Tarapaca, Arica, Chile | **Conveners:** Analisa Gabriela Mariazzi, Revaz Shanidze

16:00–16:30

Nuclear Astrophysics and the origin of the elements in the Universe

Speaker

Federico Ferraro

16:30–17:00

Highlights from the cosmic rays observed with the Pierre Auger Observatory

Speaker

Diego Ravignani

17:00–17:30

Long-baseline accelerator neutrino experiments

17:30

Speaker

Dr Mario A Acero

Tuesday 10 October

09:00

Plenary Session

Session | **Location:** Aula Magna, Campus Velasquez, Universidad de Tarapaca, Arica, Chile | **Conveners:** Michal Zamkovsky, Xiaoyan Shen

09:00–09:30

Recent experimental results on Charm hadron decays

Speaker

Yangheng Zheng

09:30–10:00

Recent results on hadron spectroscopy

Speaker

Beijiang Liu

10:00–10:30

Exotic Hadron Spectroscopy at Belle and Belle II

Speaker

Dr Roberto Mussa

10:30

11:00

Plenary Session

Session | **Location:** Aula Magna, Campus Velasquez, Universidad de Tarapaca, Arica, Chile | **Conveners:** Michal Kreps, Roy Briere, Caroline Rodenbeck

11:00–11:30

B CKM physics

Speaker

Jake Bennett

11:30–12:00

Overview of kaon physics

Speaker

Michal Zamkovsky

12:00–12:30

Low Energy Excess Search and Constraints on eV-Scale Sterile Neutrino Oscillations at MicroBooNE

Speaker

Sergey Martynenko

12:30–13:00

Reactor Neutrino Experiments with Km-Scale Baseline

Speaker

Juan Pedro Ochoa Ricoux

13:00

Wednesday 11 October

09:00

Plenary Session

Session | **Location:** Aula Magna, Campus Velasquez, Universidad de Tarapaca, Arica, Chile | **Convener:** Achim Stahl

09:00–09:30

Novel probes of dark matter with continuous gravitational waves

Speaker

Andrew Miller

09:30–10:00

Cosmology with the Dark Energy Spectroscopic Instrument

Speaker

Prof. Segev BenZvi

10:00–10:30

Neutrino Astronomy

Speaker

Piera Sapienza

10:30

Thursday 12 October

09:00

Plenary Session

Session | **Location:** Aula Magna, Campus Velasquez, Universidad de Tarapaca, Arica, Chile | **Convener:** Prof. Livia Ludhova

09:00–09:30

Direct neutrino mass measurements

Speaker

Caroline Rodenbeck

09:30–10:00

Solar Neutrino Physics: From Revelations to Precision Instrumentation

Speaker

Xuefeng Ding

10:00–10:30

Coherent elastic neutrino-nucleus scattering

Speaker

Irina Nasteva

10:30

11:00

Plenary Session

Session | **Location:** Aula Magna, Campus Velasquez, Universidad de Tarapaca, Arica, Chile | **Conveners:** Thomas Muller, Sonia Kabana

11:00–11:30

Searching for New Physics at the LHC using Effective Field Theory

Speaker

Jonathan R. Ellis

11:30–12:00

Searches for physics beyond SM at the LHC

Speaker

Norbert Neumeister

12:00–12:30

Recent experimental results on heavy-ion collisions at RHIC and LHC

Speaker

Sooraj Krishnan Radhakrishnan

12:30–13:00

Excess of soft photons in inelastic hadronic collisions: a long-lasting puzzle

Speaker

Boris Kopeliovich

13:00

14:30

Plenary Session

Session | **Location:** Aula Magna, Campus Velasquez, Universidad de Tarapaca, Arica, Chile | **Conveners:** Su Dong, Bernd Stelzer

14:30–15:00

Electroweak measurements from high statistics LHC data

Speaker

Takanori Kono

15:00–15:30

Searches for signatures with heavy stable neutral particles at the LHC

15:30

Speaker

Samuel Louis Bein