

Session Program

Nov 7 - 11, 2022

DISCRETE 2022

Plenary

Kongresshaus Baden-Baden
Augustaplatz 10, Baden-Baden, Germany Q65R+43 Baden-Baden

Mon, November 7

9:20 AM

Plenary: Welcome

Session | **Location:** Kongresssaal 2

09:20 – 09:30 **Welcome**

Speaker

Ulrich Nierste

9:30 AM

9:30 AM

Plenary

Session | **Location:** Kongresssaal 2 | **Convener:** Session Chair: Marco Fedele

09:30 – 10:00 **Status of the KOTO experiment to search for kaon rare decays**

Speaker

Hajime Nanjo

10:00 – 10:30 **Discrete Goldstone Bosons**

Speaker

Dr Rachel Houtz

10:30 AM

11:10 AM

Plenary

Session | **Location:** Kongresssaal 2 | **Convener:** Session Chair: João Penedo

11:10 – 11:40 **Theory of CP violation in charm physics**

Speaker

Dr Stefan Schacht

11:40 – 12:10 **New results on CPV in charm and bottom at LHCb**

Speaker

Angelo Carbone

12:10 PM

2:00 PM

Plenary

Session | **Location:** Kongresssaal 2 | **Convener:** Session Chair: Markus Prim

14:00 – 14:30 **Flavour anomalies**

Speaker

Andreas Crivellin

14:30 – 15:00

ATLAS and CMS Dark Matter searches: results and future opportunities

Speaker

Hassnae El Jarrari

15:00 – 15:30 **Searches for light dark sectors at Belle II, Belle, and BaBar**

Speaker

Michael De Nuccio

3:30 PM

4:00 PM

Plenary

Session | **Location:** Kongresssaal 2 | **Convener:** Session Chair Rachel Houtz

16:00 – 16:30

Recent Advancement in Laser Spectroscopy of Antihydrogen and the Progress towards the Measurement of its Gravitational Acceleration

Speaker

Andrea Capra

16:30 – 17:00

Multi Higgs Doublet Models and symmetries

Speaker

Ivo de Medeiros Varzielas

17:00 – 17:30

Overview of KATRIN Results on the Neutrino Mass and New Physics Searches

Speaker

Ms Caroline Fengler

5:30 PM

Tue, November 8

9:00 AM

Plenary

Session | **Location:** Kongresssaal 2 | **Convener:** Session Chair: Per Osland

09:00 – 09:30

Modular flavour symmetries from the bottom up

Speaker

Joao Penedo

09:30 – 10:00

Modular Flavor Symmetries and CP from the top down

Speaker

Andreas Trautner

10:00 – 10:30

Status of the CKM matrix fits with a focus on V_{ub} and V_{cb}

Speaker

Dr Markus Prim

10:30 AM

11:10 AM

Plenary

Session | **Location:** Kongresssaal 2 | **Convener:** Session Chair: Tomas Gonzalo

11:10 – 11:40

Lepton Flavour Violation

Speaker

Ann-Kathrin Perrevoort

11:40 – 12:10

Charged Lepton Flavour Violation (phenomenology)

Speaker

Jonathan Kriewald

12:10 PM

Wed, November 9

9:00 AM

Plenary

Session | **Location:** Kongresssaal 2 | **Convener:** Session Chair: Michael De Nuccio

09:00 – 09:30

Theory of electric dipole moments

Speaker

Yohei Ema

09:30 – 10:00

Gravitational wave science with LISA

Speaker

Germano Nardini

10:00 – 10:30

Probing ultralight dark matter with cold atoms

Speaker

Gilad Perez

10:30 AM

11:10 AM

Plenary

Session | **Location:** Kongresssaal 2 | **Convener:** Session Chair: Stefan Schacht

11:10 – 11:40

Searching for Gravitational Waves from Cosmic Domain Walls

Speaker

Alessio Notari

11:40 – 12:10

Spontaneous parity violation

Speaker

Goran Senjanovic

12:10 PM

Thu, November 10

9:00 AM

Plenary

Session | **Location:** Kongresssaal 2 | **Convener:** Session Chair: Chara Kitsaki

09:30 – 10:00

Tests of discrete symmetries at low energies

Speaker

Skyler Degenkolb

10:00 – 10:30

New avenues in dark matter detection

Speaker

Yonit Hochberg

10:30 AM

11:10 AM

Plenary

Session | **Location:** Kongresssaal 2 | **Convener:** Session Chair: Maria Laura Piscopo

11:10 – 11:40

Flavor Probes of Axion Dark Matter

Speaker

Robert Ziegler

11:40 – 12:10

Axions in the early universe

Speaker

Francesco D'Eramo

12:10 PM

Fri, November 11

9:30 AM

Plenary

Session | **Location:** Kongresssaal 2 | **Convener:** Session Chair: Marcel Hohmann

09:30 – 10:00 **Dark Matter from Exponential Growth: Pandemic Dark Matter**

Speaker

Paul Frederik Depta

10:00 – 10:30

Looking into the heart of darkness - two-phase xenon time projection chambers for direct dark matter searches

Speaker

Laura Baudis

10:30 AM

11:10 AM

Plenary

Session | **Location:** Kongresssaal 2 | **Convener:** Session Chair: Syuhei Iguro

11:10 – 11:40 **Present status of neutrino physics from a theory perspective**

Speaker

Vedran Brdar

11:40 – 12:10

Search for CP violation in neutrino oscillations in standard and non-standard physics scenarios

Speaker

Julia Gehrlein

12:10 PM

2:00 PM

Plenary

Session | **Location:** Kongresssaal 2 | **Convener:** Session Chair: Margarida (Gui) Rebelo

14:00 – 14:30 **Probes of Axion Dark Matter**

Speaker

Prof. Joerg Jaeckel

14:30 – 15:00

(Anti-)hydrogen spectroscopy for tests of CPT and Lorentz invariance

Speaker

Eberhard Widmann

3:00 PM

3:00 PM

Plenary: DISCRETE 2024

Session | **Location:** Kongresssaal 2 | **Convener:** Session Chair: Margarida (Gui) Rebelo

15:00 – 15:15 **DISCRETE 2024**

Speaker

Miha Nemevšek

3:15 PM