

Session Program

17-24 Jul 2024

ICHEP 2024

Dark Matter

Prague

Thursday 18 July

08:30

Dark Matter: Dark Matter

Session | **Location:** Club A | **Conveners:** Dr Martin Stahlberg, Christian Ohm

08:30–08:47 **The ALPHA axion dark matter experiment**

Speaker

Dr Jon E. Gudmundsson

08:47–09:04 **The axion dark matter experiment MADMAX**

Speaker

Pascal Pralavorio

09:04–09:21

Full Results from HAYSTAC's Phase II Operation with a Squeezed-State Receiver

Speaker

Jonathan Echevers

09:21–09:38 **Dark matter search in DEAP-3600: status and prospects**

Speaker

Michela Lai

09:38–09:55 **Exploring Low-Mass Dark Matter with the DarkSide Detectors**

Speaker

Prof. Yi Wang

09:55–10:12 **Direct Dark Matter Search in the DarkSide-20k Experiment**

Speaker

Daria Santone

10:15

10:45

Dark Matter: Dark Matter

Session | **Location:** Club A | **Conveners:** Dr Irene Bolognino, Sara DIGLIO

10:45–11:02 **Latest results from the XENONnT dark matter experiment**

Speaker

Pietro Di Gangi

11:02–11:19

Status of the LUX-ZEPLIN (LZ) experiment: a direct search for dark matter

Speaker

Nicolas Angelides

11:19–11:36 **Background Modeling for the LUX-ZEPLIN Dark Matter Experiment**

Speaker

Daniel Kodroff

11:36–11:53 **DARWIN - The Ultimate Liquid-xenon-based Astroparticle Observatory**

Speaker
Alexey Elykov

11:53-12:10 The CYGNO experiment

Speaker
Melba D'Astolfo

12:10-12:27 Light dark matter search at PandaX

Speaker
minzhen zhang

Dark Matter: Dark Matter

Session | **Location:** Club A | **Conveners:** Dr Martin Stahlberg, Dr Irene Bolognino

14:30-14:48 ANAIS-112 updated results on dark matter annual modulation

Speaker
Maria Martinez

14:48-15:06 Status on COSINE-100 experiment

Speaker
Dr InSoo Lee

15:06-15:23

The SABRE South Experiment at the Stawell Underground Physics Laboratory

Speaker
Lachlan Milligan

15:23-15:41

Status of SABRE North at LNGS and radiopurity of SABRE NaI(Tl) crystals

Speaker
Gabriella Cataldi

15:41-15:59 Dark matter searches with the KM3NeT neutrino telescope

Speaker
Mr Adrian Šaina

Dark Matter: Dark Matter

Session | **Location:** Club A | **Conveners:** Marek Matas, Sara DIGLIO

16:45-17:02 Neutrino constraints on inelastic dark matter captured in the Sun

Speaker
Prof. Ina Sarcevic

17:02-17:19 Dark sector and Axion-like particle search at BESIII

Speaker
Xiaoxuan Ding

17:19-17:36

The Scintillating Bubble Chamber for Dark Matter and Neutrino detection

Speaker
Hugh Lippincott

17:36-17:53

Recasting scalar-tensor theories of gravity for colliders

Speaker

Dr Peter Millington

17:53-18:11

Boosting the production of sterile neutrino dark matter with self-interactions

Speaker

Stefan Vogl

18:30

Friday 19 July

08:30

Dark Matter: Dark Matter

Session | **Location:** Club E | **Conveners:** Dr Irene Bolognino, Christian Ohm

09:03–09:21

Resonant dark sector production on crystals

Speaker

Giovanni Grilli Di Cortona

09:21–09:39

Hunting for Hypercharge Anapole Dark Matter

Speaker

Seong Youl Choi

09:39–09:57

Searching for the X17 with the PADME experiment

Speaker

Venelin Kozhuharov

09:57–10:15

Dark SHINE — Search for Light Dark Matter at the SHINE facility in Shanghai

Speaker

Shu Li

10:15

10:45

Dark Matter: Dark Matter

Session | **Location:** Club E | **Conveners:** Dr Martin Stahlberg, Marek Matas

10:45–11:03

First results from testing SuperCDMS SNOLAB detectors in a low background environment at CUTE

Speaker

Aditi Pradeep

11:03–11:21

The SuperCDMS at SNOLAB experiment, status and prospects

Speaker

Emanuele Michielin

11:21–11:39

The search for light dark matter with DAMIC-M

Speaker

Radomir Smida

11:39–11:57

QUEST-DMC: detection of sub-GeV dark matter with nanowires in a superfluid He-3 calorimeter

Speaker

Dr Paolo Franchini

11:57–12:15

Production, Purification and Assay of Underground Argon for DarkSide-20k

Speaker

Devidutta Gahan

12:30

14:30

Dark Matter: Dark Matter

Session | **Location:** Club E | **Conveners:** Christian Ohm, Marek Matas

14:30-14:47

Searches for dark matter with CMS

Speaker

Michael Wassmer

14:47-15:04

Searches for dark sector particles at Belle and Belle II

Speaker

Giacomo De Pietro

15:04-15:21

Search for Baryogenesis and Dark Matter in B -meson decays with the BABAR detector

Speaker

Sophie Middleton

15:21-15:38

The Light Dark Matter eXperiment at 8 GeV

Speaker

Erik Wallin

15:38-15:55

First measurement of antiproton cross section in p-He collisions at the AMBER Experiment at CERN

Speaker

Mr Davide Giordano

15:55-16:12

ATLAS Latest Dark Matter Searches

Speaker

Elena Michelle Villhauer

16:15

16:45

Dark Matter: Dark Matter

Session | **Location:** Club E | **Conveners:** Marek Matas, Sara DIGLIO

16:45-17:03

Directional dark matter searches with the NEWSdm Experiment

Speaker

Valeri Tioukov

17:03-17:21

Fabrication and Data Acquisition of the KAPAE Phase II Detector for Investigating Invisible Decay in Positronium Annihilation

Speaker

Hongjoo Kim

17:21-17:39

PICO: search for dark matter with bubble chambers

Speaker

Eric Vazquez-Jauregui

17:39-17:57

A novel approach for $\overline{\text{He}}$ research in cosmic rays with neural networks.

Speaker
Francesco Rossi

17:57-18:15

NEWS-G: Search for Light Dark Matter with a Spherical Proportional Counter

Speaker
Francisco Vazquez de Sola Fernandez

18:30