

Session Program

Jul 8 - 12, 2024

IDM 2024

Parallel 1

L'Aquila, Italy

Plenary sessions: Palazzo dell'Emiciclo, Sala Ipogea Parallel sessions: Palazzo dell'Emiciclo, Sala Ipogea - GSSI Rectorate, Auditorium - GSSI, Sala Rossa (MLH)

Mon, July 8

2:00 PM

Parallel 1: Direct detection

Session | **Location:** Palazzo dell'Emiciclo, Sala Ipogea | **Convener:** Carla Macolino

2:00 – 2:20 PM **PandaX-4T Experiment and its Recent Progress on WIMP search**

Speaker

Qing Lin

2:20 – 2:40 PM **WIMP Dark Matter searches with the XENONnT experiment**

Speaker

Henning Schulze Eißing

2:40 – 3:00 PM

An update on the LUX-ZEPLIN (LZ) experiment's search for dark matter

Speaker

Ibles Olcina

3:00 – 3:20 PM

Accidental Coincidence Background in XENONnT for Low Energy Nuclear Recoil Search

Speaker

Kexin Liu

3:20 – 3:40 PM

Recent status and prospects of CDEX dark matter search at CJPL

Speaker

Litao Yang

3:40 – 4:00 PM

The PICO-40L Direct Detection Experiment

Speaker

Derek Cranshaw

4:00 PM

4:30 PM

Parallel 1: Direct detection

Session | **Location:** Palazzo dell'Emiciclo, Sala Ipogea | **Convener:** Paolo Agnes

4:30 – 4:50 PM **Status of DEAP-3600 experiment**

Speaker

Pushparaj Adhikari

4:50 – 5:10 PM **The LZ Outer Detector**

Speaker

Alberto Usón

5:10 – 5:30 PM

The XENONnT Neutron Veto: performances without and with Gd-doping.

Speaker

Marco Selvi

5:30 - 5:50 PM **The DarkSide-20k experiment**

Speaker

Mr Iftikhar Ahmad

5:50 - 6:10 PM **Low-radiactivity argon for dark matter searches and beyond**

Speaker

Riccardo Stefanizzi

6:10 - 6:30 PM

Status and short term prospects of DArT, the Underground Ar measurement at Canfranc

Speaker

Vicente Pesudo

6:50 PM

Tue, July 9

2:00 PM

Parallel 1: Direct detection

Session | **Location:** Palazzo dell'Emiciclo, Sala Ipogea | **Convener:** Aldo Ianni

2:00 – 2:20 PM

Annual modulation results from DAMA/LIBRA

Speaker

Riccardo Cerulli

2:20 – 2:40 PM

Status and prospects of the SABRE North experiment and NaI(Tl) crystal radiopurity

Speaker

Davide D'Angelo

2:40 – 3:00 PM

ANAIS-112: the most sensitive experiment to test the DAMA/LIBRA signal in a model independent way

Speaker

Iván Coarasa Casas

3:00 – 3:20 PM

Dark Matter Annual Modulation Search in COSINE-100 Full Dataset and Beyond

Speaker

SeungMok Lee

3:20 – 3:40 PM

A combined search for dark matter with COSINE-100 and ANAIS-112

Speaker

Sophia Hollick

3:40 – 4:00 PM

The COSINUS dark matter search experiment

Speaker

Florian Reindl

4:00 PM

4:30 PM

Parallel 1: Direct detection

Session | **Location:** Palazzo dell'Emiciclo, Sala Ipogea | **Convener:** Carla Macolino

4:30 – 4:50 PM

The SABRE South Experiment at the Stawell Underground Physics Laboratory

Speaker

Elisabetta Barberio

4:50 – 5:10 PM

Measurements of low energy nuclear recoil quenching factors for NaI(Tl) scintillating crystal

Speaker

Seo Hyun Lee

5:10 - 5:30 PM

Dark matter search opportunities with NaI scintillating crystals using SiPMs at cryogenic temperatures

Speaker

Jaime Apilluelo Allué

5:30 - 5:50 PM

ASTAROTH, an innovative detector for dark matter direct detection experiments

Speaker

Valerio Toso

5:50 - 6:10 PM

Opportunities at the Sanford Underground Research Facility

Speaker

Jaret Heise

6:10 - 6:30 PM

Boulby Underground Laboratory: Status update and future plans

Speaker

Paul Scovell

6:30 - 6:50 PM

Seeking Dark Matter in the Southern Hemisphere with PAUL

Speaker

Marcello Messina

6:50 PM

Wed, July 10

2:00 PM

Parallel 1: Light Dark Matter

Session | **Location:** Palazzo dell'Emiciclo, Sala Ipogea | **Convener:** Paolo Agnes

2:00 - 2:20 PM

Direct Dark Matter search with the CRESST-III experiment: Status and Prospects

Speaker

Anna Bertolini

2:20 - 2:40 PM

Updates and latest results of the SENSEI experiment

Speaker

Ana Martina Botti

2:40 - 3:00 PM

Light Dark Matter searches with a next generation Spherical Proportional Counter

Speaker

Ioannis Manthos

3:00 - 3:20 PM

Results with Low Background Chamber, a DAMIC-M prototype

Speaker

Dr Danielle Norcini

3:20 - 3:40 PM

The SuperCDMS experiment at SNOLAB

Speaker

Sukeerthi Dharani

3:40 - 4:00 PM

The ionization-signal-only analysis and results in PandaX-4T experiment

Speaker

Shuaijie Li

4:00 - 4:20 PM

Towards discovery of hidden sector dark matter with liquid xenon TPCs

Speakers

Peter Sorensen, Ryan Gibbons

4:20 PM

Thu, July 11

2:00 PM

Parallel 1: Direct detection

Session | **Location:** Palazzo dell'Emiciclo, Sala Ipogea | **Convener:** Elisabetta Baracchini

2:00 – 2:20 PM **Directional dark matter searches with the NEWSdm Experiment**

Speaker

Andrey Alexandrov

2:20 – 2:40 PM

First Directional Neutron Recoil Results from a 1 m³ scale SF6 TPC Vessel with a Coupled MThGEM-Micromegas Readout

Speaker

Alasdair McLean

2:40 – 3:00 PM

Status of NEWAGE: direction-sensitive dark matter search with low background micro-pattern gaseous TPC

Speaker

Satoshi Higashino

3:00 – 3:20 PM

The CYGNO experiment, a directional detector for direct Dark Matter searches

Speaker

David José Gaspar Marques

3:20 – 3:40 PM

DMICA: exploring Dark Matter in natural muscovite MICA

Speaker

Shigenobu Hirose

3:40 – 4:00 PM

Dark Matter Searches with the LEGEND Experiment

Speaker

Samuel Watkins

4:00 PM

4:30 PM

Parallel 1: Direct detection

Session | **Location:** Palazzo dell'Emiciclo, Sala Ipogea | **Convener:** Paolo Agnes

4:30 – 4:50 PM **Studying hydrogen-xenon mixtures for direct dark matter detection**

Speaker

Ann Wang

4:50 – 5:10 PM

Characterization of low energy argon recoils with ReD and ReD+

Speaker

Luciano Pandola

5:10 – 5:30 PM

XLZD: A Next-Generation Liquid Xenon Observatory for Dark Matter & Neutrino Physics

Speaker

Laura Baudis

5:30 - 5:50 PM

The DARWIN R&Ds towards the XLZD detector

Speaker

Chiara Capelli

5:50 - 6:10 PM

Material assay campaign of the DarkSide-20k experiment

Speaker

Roberto Santorelli

6:50 PM