

Session Program

28 November 2016 to 2 December 2016

CosPA 2016

Dark matter

Monday 28 November

14:00

Dark matter

Session | **Location:** SNH, 4002 | **Convener:** Victor Flambaum

14:00-14:20 **Dark matter searches in LUX**

Speaker

Claudio Frederico Pascoal da Silva

14:20-14:40 **Status of COSINE experiment.**

Speaker

Pushparaj Adhikari

14:40-15:00 **Indirect searches of TeV Dark Matter at the Galactic Center**

Speaker

Viviana Gammaldi

15:00-15:20

First Results of the GPS.DM Observatory: Search for Dark Matter and Exotic Physics with Atomic Clocks and GPS Constellation

Speaker

Benjamin Roberts

15:20-15:40

Improved constraints on annihilating dark matter from cosmic-ray antiprotons

Speaker

Martin Stref

15:40

16:10

Dark matter

Session | **Location:** SNH, 4002 | **Convener:** Giorgio Busoni

16:10-16:30

p-wave Annihilating Dark Matter from a Decaying Predecessor and the Galactic Centre Excess

Speaker

Jonathan Cornell

16:30-16:50 **Semi-Annihilation and Dark Matter Indirect Detection**

Speaker

Yi Cai

16:50-17:10 **Dark Forces in the Sky: Signals from Z' and the Dark Higgs**

Speaker

Nicole Bell

17:10-17:30

The Dark Matter Interpretation of the Gamma-Ray Excess at the Galactic Centre

Speaker

Hamish Clark

17:30

Tuesday 29 November

14:00

Dark matter

Session | **Location:** SNH, 4002 | **Convener:** Yi Cai

14:00-14:20

Global fits of the scalar singlet model using GAMBIT

Speaker

James McKay

14:20-14:40

Effective vector and fermion Higgs portal: A global study with GAMBIT

Speaker

Mr Ankit Beniwal

14:40-15:00

Evaporation on GeV-ish DM in the Sun

Speaker

Giorgio Busoni

15:00-15:20

Plasma Dark matter direct detection

Speaker

Dr Robert Foot

15:20-15:40

Halo-independent tests of dark matter direct detection signals

Speaker

Dr Juan Herrero Garcia

15:40

16:10

Dark matter

Session | **Location:** SNH, 4002 | **Convener:** pyungwon ko

16:10-16:30

New effects of dark matter which are linear in the interaction strength

Speaker

Prof. Victor Flambaum

16:30-16:50

Searching for dark matter and exotic bosons with atoms, molecules and ultracold neutrons

Speaker

Yevgeny Stadnik

16:50-17:10

Quantum and Classical Behaviour of Axion Dark Matter

Speaker

Prof. Mark Hertzberg

17:10-17:30

A dark matter model with Dirac neutrino masses

Speaker

Seungwon Baek

17:30

Thursday 1 December

14:00

Dark matter

Session | **Location:** SNH, 4002 | **Convener:** Robert Foot

14:00-14:20

Particle Physics Models for DM-DR interactions

Speaker

pyungwon ko

14:20-14:40

Triplet-Quadruplet Fermionic Dark Matter

Speaker

Zhao-Huan Yu

14:40-15:00

Right-handed neutrino dark matter under the B-L gauge interaction

Speaker

Kunio Kaneta

15:00-15:20

Probing mixed complex scalar WIMP dark matter

Speaker

Akiteru Santa

15:20

16:10

Dark matter

Session | **Location:** SNH, 4002 | **Convener:** Dr Juan Herrero Garcia

16:10-16:30

Relic Abundance in Secluded Dark Matter Scenario with Massive Mediator

Speaker

Masato Yamanaka

16:30-16:50

A map of the non-thermal WIMP

Speaker

Chang Sub Shin

16:50-17:10

Determining the Local Dark Matter Density

Speaker

Hamish Silverwood

17:10