

Monday 5 December

14:00

Dark matter

Session | **Location:** Old Main Building, 230 | **Convener:** Theresa Fruth

14:00-14:20 First results from the LUX-ZEPLIN (LZ) dark matter experiment

Speaker

Nishat Parveen

14:20-14:40 XENONnT Dark Matter Experiment: Recent Status and Latest Results

Speaker

Dr Yajing Xing

14:40-15:00 Direct dark matter searches in XMASS-I

Speaker

Atsushi Takeda

15:00-15:20 DARWIN: a liquid xenon observatory for rare events physics searches

Speaker

Dr Sara Diglio

15:20-15:40 DarkSide-20k and the Direct Dark Matter Search with Liquid Argon

Speaker

Thomas Nathan Thorpe

15:40 16:10

Dark matter

Session | Location: Old Main Building, 230 | Convener: Sara DIGLIO

16:10-16:30 ANAIS-112: testing the DAMA/LIBRA signal beyond 3 sigma

Speaker

Maria Martinez

16:30-16:50

Cryogenic NaI based remoTES calorimeters for direct dark matter detection in COSINUS

Speaker

Mukund Raghunath Bharadwaj

16:50-17:10 Impact of quenching factor models on tests of DAMA

Speaker

Madeleine Zurowski

17:10-17:30

Radio-impurity studies for dark matter detection with the SABRE South experiment

Speaker

Dr Zuzana Slavkovska

17:30-17:50

R11065 Crystal Photomultiplier Contribution to the SABRE South Experimental Background

Speaker

William Melbourne

17:50

Tuesday 6 December

14:00

Dark matter

Session | Location: Old Main Building, 230 | Convener: Giorgio Busoni

14:00-14:20

CYGNUS-Oz development of directional dark matter detection capabilities using a gaseous time projection chamber for the Cygnus experiment

Speaker

Ferdos Dastgiri

14:20-14:40

Precise predictions and new insights for the Migdal effect

Speaker

Peter Cox

14:40-15:00 Light dark matter: Theory and Chemistry

Speaker

Tom Melia

15:00-15:20 Scintillating Bubble Chambers for GeV-Scale Dark Matter Searches

Speaker

Prof. Russell Neilson

15:20-15:40 GLIMPSE: Graphene-based Light Invisible Matter Particle SEarch

Speaker

Jong-Chul Park

15:40 16:10

Dark matter

Session | Location: Old Main Building, 230 | Convener: Michael Klasen

16:10-16:30

Impact of precision calculations in Simplified t channel Dark Matter models

Speaker

Dipan Sengupta

16:30-16:50 Improved theoretical predictions of the dark matter relic abundance

Speaker

Luca Paolo Wiggering

16:50-17:10 Global Fits of vector-mediated simplified models for Dark Matter

Speaker

Christopher Chang

17:10-17:30

Radiative Neutrino Mass with GeV Scale Majorana Dark Matter in Scotogenic Model

Speaker

Avnish.

17:30-17:50

Composite dark matter from non-abelian gauge theories with real representations

Speaker

Joachim Pomper

17:50

Thursday 8 December

14:00

Dark matter

Session | Location: Old Main Building, 230 | Convener: Dr Peter Cox

14:00-14:20

Observational evidence of dark matter within the quark nugget model

Speaker

Dr Igor Samsonov

14:20-14:40

The effects of source morphology on machine learnings ability to identify dark matter substructure in strong gravitational lenses.

Speaker

Tyler Hughes

14:40-15:00 Merging clusters as a test-bed for self-interacting dark matter

Speaker

Ellen Sirks

15:00-15:20 Thermal WIMPs and the Scale of New Physics

Speaker

Dr Ankit Beniwal

15:20 16:10

Dark matter

Session | Location: Old Main Building, 230 | Convener: Dr Ankit Beniwal

16:10-16:30 Observational signatures of compact dark stars

Speaker

Alejandro Ibarra

16:30-16:50 Capture of DM in Compact Stars

Speaker

Giorgio Busoni

16:50-17:10 Neutron Star Heating and the (g-2)_muon Discrepancy

Speaker

Maura Elizabeth Ramirez Quezada

17:10-17:30 Dark Matter in Compact Objects

Speaker

Michael Virgato

17:30