

**Dark Matter from aeV to ZeV:
3rd IBS-MultiDark-IPPP
Workshop**

Report of Contributions

Contribution ID: 0

Type: **not specified**

Dynamics of cosmological relaxation after reheating

Thursday, 24 November 2016 16:30 (15 minutes)

Presenter: KIM, Hyungjin (KAIST)

Session Classification: Student Contributions

Contribution ID: 1

Type: **not specified**

Identifying the production process of new physics at colliders; symmetric or asymmetric?

Thursday, 24 November 2016 16:45 (15 minutes)

Presenter: LIM, Sung Hak (KAIST)

Session Classification: Student Contributions

Contribution ID: 2

Type: **not specified**

Light dark matter scattering in outer neutron star crusts

Thursday, 24 November 2016 17:00 (15 minutes)

Presenter: CERMEÑO, Marina (Universidad de Salamanca)

Session Classification: Student Contributions

Contribution ID: 3

Type: **not specified**

Flavor constraints on axion-like particle

Thursday, 24 November 2016 17:15 (15 minutes)

Presenter: YUN, Seokhoon (KAIST)

Session Classification: Student Contributions

Contribution ID: 4

Type: **not specified**

Reopening the Higgs portal for singlet scalar dark matter

Thursday, 24 November 2016 17:30 (15 minutes)

Presenter: QUILIS, Javier

Session Classification: Student Contributions

Contribution ID: 5

Type: **not specified**

What does the Bullet Cluster tell us about Self-Interacting Dark Matter?

Thursday, 24 November 2016 17:45 (15 minutes)

Presenter: ROBERTSON, Andrew

Session Classification: Student Contributions

Contribution ID: 6

Type: **not specified**

Neutrino oscillations in the galactic DM halo

Thursday, 24 November 2016 18:00 (15 minutes)

Presenter: FERNANDEZ DE SALAS, Pablo (IFIC CSIC/UV)

Session Classification: Student Contributions

Dark Matter fro ... / Report of Contributions

TBA

Contribution ID: 7

Type: **not specified**

TBA

Presenter: STUDENT

Contribution ID: 8

Type: **not specified**

The search for cosmological annihilation signals with the Fermi Large Area Telescope

Thursday, 24 November 2016 15:30 (30 minutes)

Presenter: SÁNCHEZ CONDE, Miguel Ángel (Oskar Klein Centre, Stockholm University)

Session Classification: Indirect Detection

Contribution ID: **9**

Type: **not specified**

TBA

Contribution ID: **10**

Type: **not specified**

How can we get cosmic-rays from dark matter?

Thursday, 24 November 2016 14:00 (30 minutes)

Presenter: PARK, Jong Chul (Chungnam National University)

Session Classification: Indirect Detection

Contribution ID: 11

Type: **not specified**

Origin of the high-energy neutrino flux at IceCube

Thursday, 24 November 2016 15:00 (30 minutes)

Presenter: MASIP, Manuel (Universidad de Granada)

Session Classification: Indirect Detection

Contribution ID: 12

Type: **not specified**

The Cherenkov Telescope Array & Prospects for Dark Matter Studies

Thursday, 24 November 2016 11:30 (30 minutes)

Presenter: CHADWICK, Paula (University of Durham)

Session Classification: Indirect Detection

Contribution ID: 13

Type: **not specified**

Future experimental prospects in indirect detection of dark matter

Thursday, 24 November 2016 12:00 (30 minutes)

Presenter: MORSELLI, Aldo (INFN Roma Tor Vergata)

Session Classification: Indirect Detection

Contribution ID: 14

Type: **not specified**

Gamma rays from the Galactic centre: an overview

Thursday, 24 November 2016 09:30 (30 minutes)

Presenter: CALORE, Francesca (LAPTh)

Session Classification: Indirect Detection

Contribution ID: 15

Type: **not specified**

Dark matter searches with neutrinos

Thursday, 24 November 2016 10:00 (30 minutes)

Presenter: ZORNOZA, Juan de Dios (IFIC (UV-CSIC))

Session Classification: Indirect Detection

Contribution ID: 16

Type: **not specified**

Reviewing dark matter searches with radio waves

Thursday, 24 November 2016 10:30 (30 minutes)

Presenter: LINEROS, Roberto (IFIC - UVEG/CSIC)

Session Classification: Indirect Detection

Contribution ID: 17

Type: **not specified**

Relaxion for the EW scale hierarchy

Wednesday, 23 November 2016 09:30 (30 minutes)

Presenter: CHOI, Kiwoon (IBS)

Session Classification: Axions

Contribution ID: **18**

Type: **not specified**

SM*A*S*H —A Minimal Model for Particle Physics and Cosmology

Wednesday, 23 November 2016 10:00 (30 minutes)

Presenter: RINGWALD, Andreas (DESY)

Session Classification: Axions

Contribution ID: 19

Type: **not specified**

CAPP axion dark matter search experiments

Wednesday, 23 November 2016 10:30 (30 minutes)

Presenter: YOO, Jong Hee (KAIST and IBS)

Session Classification: Axions

Contribution ID: 20

Type: **not specified**

Wino dark matter and supersymmetric model with heavy sfermions

Wednesday, 23 November 2016 12:00 (30 minutes)

Presenter: MOROI, Takeo (Tokyo)

Session Classification: Axions

Contribution ID: **21**

Type: **not specified**

TBA

Contribution ID: 22

Type: **not specified**

The underground search for dark matter: how deep can we go?

Wednesday, 23 November 2016 14:00 (30 minutes)

Presenter: MURPHY, Alexander (University of Edinburgh)

Session Classification: Direct Detection

Contribution ID: 23

Type: **not specified**

SuperCDMS

Wednesday, 23 November 2016 14:30 (20 minutes)

Presenter: RAU, Wolfgang

Session Classification: Direct Detection

Contribution ID: 24

Type: **not specified**

Status of KIMS

Wednesday, 23 November 2016 14:50 (20 minutes)

Presenter: LEE, Moo Hyun (Center for Underground Physics, Institute for Basic Science)

Session Classification: Direct Detection

Contribution ID: 25

Type: **not specified**

Testing DAMA/LIBRA signal with ANAIS112

Wednesday, 23 November 2016 15:10 (20 minutes)

Presenter: MARTINEZ, Maria (Univ. Roma La Sapienza)

Session Classification: Direct Detection

Contribution ID: 26

Type: **not specified**

PICO: dark matter detection with bubble chamber detectors

Wednesday, 23 November 2016 15:30 (30 minutes)

Presenter: ARDID, Miquel (Universitat Politècnica de València)

Session Classification: Direct Detection

Contribution ID: 27

Type: **not specified**

Towards model-independent tests of WIMP dark matter

Tuesday, 22 November 2016 17:00 (30 minutes)

Presenter: CATENA, Riccardo (Chalmers University of Technology)

Session Classification: DM Models

Contribution ID: 28

Type: **not specified**

Astrophysical effects on dark matter direct detection

Wednesday, 23 November 2016 17:00 (30 minutes)

Presenter: BOZORGNI, Nassim (GRAPPA, University of Amsterdam)

Session Classification: Direct Detection

Contribution ID: 29

Type: **not specified**

Primordial Black Holes as dark matter candidate

Presenter: GREEN, Anne (University of Nottingham)

Contribution ID: 30

Type: **not specified**

Searching for SUSY and decaying gravitino DM at the LHC and Fermi-LAT with the $\mu\nu$ SSM

Friday, 25 November 2016 11:00 (30 minutes)

Presenter: LÓPEZ-FOGLIANI, Daniel (IFIBA (University of Buenos Aires & CONICET))

Session Classification: Models and Theory

Contribution ID: 31

Type: **not specified**

Light right-handed neutrino WIMP motivated by Atomki anomalies

Tuesday, 22 November 2016 15:30 (30 minutes)

Presenter: SETO, Osamu (Hokkaido University)

Session Classification: DM Models

Contribution ID: 32

Type: **not specified**

Searching for Relaxions through the Higgs Portal

Friday, 25 November 2016 10:00 (30 minutes)

Presenter: FLACKE, Thomas (IBS CTPU)

Session Classification: Models and Theory

Contribution ID: 33

Type: **not specified**

Gravitational Waves: The novel messengers of the Universe

Friday, 25 November 2016 11:30 (30 minutes)

Presenter: SINTES, Alicia (Universitat de les Illes Balears)

Session Classification: Models and Theory

Contribution ID: **34**

Type: **not specified**

Dark matter searches at colliders

Tuesday, 22 November 2016 09:30 (30 minutes)

Presenter: MALIK, Sarah (Imperial College London)

Session Classification: Colliders and Flavor

Contribution ID: 35

Type: **not specified**

Supersymmetric dark matter

Tuesday, 22 November 2016 10:00 (30 minutes)

Presenter: OLIVE, Keith (University of Minnesota)

Session Classification: Colliders and Flavor

Contribution ID: **36**

Type: **not specified**

Neutrino pathways to dark matter

Tuesday, 22 November 2016 10:30 (30 minutes)

Presenter: VALLE, Jose

Session Classification: Colliders and Flavor

Contribution ID: 37

Type: **not specified**

Non-linear portals to Dark Matter

Tuesday, 22 November 2016 11:30 (25 minutes)

Presenter: SANZ, Verónica (Sussex)

Session Classification: Colliders and Flavor

Contribution ID: **38**

Type: **not specified**

Hunting dark Z' and dark Higgs bosons

Tuesday, 22 November 2016 11:55 (25 minutes)

Presenter: KAHLHOEFER, Felix

Session Classification: Colliders and Flavor

Contribution ID: 39

Type: **not specified**

(Light) Dark Matter @ LHC

Tuesday, 22 November 2016 12:20 (25 minutes)

Presenter: PARK, Myeonghun (IBS-CTPU)

Session Classification: Colliders and Flavor

Contribution ID: 40

Type: **not specified**

Dark Matter in the pMSSM

Tuesday, 22 November 2016 14:00 (30 minutes)

Presenter: HEINEMEYER, Sven (IFT-UAM)

Session Classification: DM Models

Contribution ID: 41

Type: **not specified**

Dark matter annihilation and the 21cm signal

Tuesday, 22 November 2016 14:30 (30 minutes)

Presenter: LOPEZ-HONOREZ, Laura

Session Classification: DM Models

Contribution ID: 42

Type: **not specified**

Primordial Black Holes as dark matter candidate

Tuesday, 22 November 2016 15:00 (30 minutes)

Presenter: GREEN, Anne

Session Classification: DM Models

Dark Matter fro ... / Report of Contributions

TBA

Contribution ID: 43

Type: **not specified**

TBA

Presenter: TBC

Contribution ID: 44

Type: **not specified**

Superweakly and not so weakly interacting Dark Matter

Presenter: COVI, Laura (Institute for theoretical physics)

Contribution ID: 45

Type: **not specified**

TBA

Presenter: BAE, Kyu Jung

Contribution ID: 46

Type: **not specified**

An Effective Operator Analysis of Semi-Annihilating Dark Matter

Tuesday, 22 November 2016 16:30 (30 minutes)

Presenter: SPRAY, Andrew (CTPU, Institute for Basic Science)

Session Classification: DM Models

Contribution ID: 47

Type: **not specified**

Discovering dark matter

Monday, 21 November 2016 09:30 (30 minutes)

Presenter: SARKAR, Subir (University of Oxford)

Session Classification: DM in the Sky

Contribution ID: 48

Type: **not specified**

Cosmic ray foreground in the search for DM

Monday, 21 November 2016 10:30 (30 minutes)

Presenter: WOLFENDALE, Arnold (Durham University)

Session Classification: DM in the Sky

Contribution ID: 49

Type: **not specified**

Astrophysical clues to the identity of the dark matter

Monday, 21 November 2016 10:00 (30 minutes)

Presenter: FRENK, Carlos (ICC, Durham University)

Session Classification: DM in the Sky

Contribution ID: 50

Type: **not specified**

Dark Matter from 10^{-22} eV to 10^6 eV: Theory Overview

Monday, 21 November 2016 12:00 (30 minutes)

Presenter: MARCH-RUSSELL, John (Oxford University)

Session Classification: DM in the Sky

Contribution ID: 51

Type: **not specified**

"Large" Hadron Collider? What, that tiny thing?

Monday, 21 November 2016 11:30 (30 minutes)

Presenter: MASSEY, Richard (ICC, Durham University)

Session Classification: DM in the Sky

Contribution ID: 52

Type: **not specified**

Constraints on dark matter models from anomalous strong lens systems

Monday, 21 November 2016 14:00 (30 minutes)

Presenter: KAMADA, Ayuki (IBS-CTPU)

Session Classification: Cosmology

Contribution ID: 53

Type: **not specified**

A map of the non-thermal WIMP

Monday, 21 November 2016 14:30 (30 minutes)

Presenter: SHIN, Chang Sub (APCTP)

Session Classification: Cosmology

Contribution ID: 54

Type: **not specified**

Cosmological exploration for light dark matter

Monday, 21 November 2016 15:00 (30 minutes)

Presenter: KADOTA, Kenji (CTPU, IBS)

Session Classification: Cosmology

Contribution ID: 55

Type: **not specified**

Ultra-light bosonic dark matter with arbitrary spin

Monday, 21 November 2016 15:30 (30 minutes)

Presenter: CEMBRANOS, José (Universidad Complutense de Madrid)

Session Classification: Cosmology

Contribution ID: 56

Type: **not specified**

Bound on low reheating temperature with dark matter

Monday, 21 November 2016 16:30 (30 minutes)

Presenter: CHOI, Ki Young (Chonnam National University)

Session Classification: Theory and Models

Contribution ID: 57

Type: **not specified**

Cosmological relaxion windows and observational constraints

Wednesday, 23 November 2016 11:30 (30 minutes)

Presenter: IM, Sanghui

Session Classification: Axions

Contribution ID: 58

Type: **not specified**

Bound state formation and sommerfeld enhancement

Thursday, 24 November 2016 14:30 (30 minutes)

Presenter: TAOSO, Marco (IFT)

Session Classification: Indirect Detection

Contribution ID: 59

Type: **not specified**

Analysis of dark matter theories with GAMBIT

Friday, 25 November 2016 09:30 (30 minutes)

Presenter: SCOTT, Pat

Session Classification: Models and Theory

Contribution ID: **60**

Type: **not specified**

Superweakly and not so weakly interacting Dark Matter

Tuesday, 22 November 2016 17:30 (30 minutes)

Presenter: COVI, Laura

Session Classification: DM Models

Contribution ID: **61**

Type: **not specified**

Status of CUORE: a cryogenic underground observatory for rare events

Wednesday, 23 November 2016 16:30 (30 minutes)

Presenter: MARTÍNEZ, María (Univ. Roma La Sapienza)

Session Classification: Direct Detection

Contribution ID: 62

Type: **not specified**

Generalized interpretations of WIMP direct detection data

Monday, 21 November 2016 17:00 (30 minutes)

Presenter: SCOPEL, Stefano (Sogang University)

Session Classification: Theory and Models

Contribution ID: 63

Type: **not specified**

Boulby Underground Laboratory: Status and future plans for the UK's deep underground science facility

Wednesday, 23 November 2016 17:30 (30 minutes)

Presenter: MEEHAN, Emma

Session Classification: Direct Detection

Contribution ID: 64

Type: **not specified**

Measurement and interpretation of the Fermi-LAT angular power spectrum of gamma-ray anisotropies

Monday, 21 November 2016 17:30 (30 minutes)

Presenter: FORNASA, Mattia (GRAPPA, Amsterdam)

Session Classification: Theory and Models

Contribution ID: 65

Type: **not specified**

Axion Miniclusters

Thursday, 24 November 2016 18:15 (15 minutes)

Presenter: STADLER, Julia (IPPP, Durham University)

Session Classification: Student Contributions