

HAP Dark Matter 2015



Report of Contributions

Contribution ID: 0

Type: **not specified**

Astrophysical observations of dwarf galaxies/ dwarf galaxy surveys (Vasily Belokurov, Cambridge)

Monday, September 21, 2015 2:00 PM (40 minutes)

Session Classification: CDM vs. WDM scenarios

Contribution ID: 1

Type: **not specified**

N-body simulations with LCDM parameters: general overview and special results on dwarf galaxies (Carlos Frenk, Durham)

Monday, September 21, 2015 2:40 PM (40 minutes)

Session Classification: CDM vs. WDM scenarios

Contribution ID: 2

Type: **not specified**

Simulations of structure formation with warm DM (Matteo Viel, Trieste)

Monday, September 21, 2015 3:20 PM (40 minutes)

Session Classification: CDM vs. WDM scenarios

Contribution ID: 3

Type: **not specified**

Searches for DM annihilation in dwarf galaxies (Brandon Anderson, Stockholm)

Monday, September 21, 2015 4:30 PM (40 minutes)

Session Classification: CDM vs. WDM scenarios

Contribution ID: 4

Type: **not specified**

Production of Sterile Neutrino dark matter (Alexander Merle, MPP München)

Monday, September 21, 2015 5:10 PM (40 minutes)

Session Classification: CDM vs. WDM scenarios

Contribution ID: 5

Type: **not specified**

Observation of a 3.5keV line from X-ray observations of galaxy clusters –evidence for sterile neutrinos? (Jeroen Franse, U Leiden)

Monday, September 21, 2015 5:50 PM (40 minutes)

Session Classification: CDM vs. WDM scenarios

Contribution ID: 6

Type: **not specified**

Planck results focussing on consequences for WIMP DM (Torsten Ensslin, MPA Garching)

Wednesday, September 23, 2015 9:00 AM (45 minutes)

Session Classification: CMB and its impact on DM

Contribution ID: 7

Type: **not specified**

Phenomenology of dark photons and ALPs (Babette Döbrich, CERN)

Wednesday, September 23, 2015 9:45 AM (45 minutes)

Session Classification: Axions, ALPs and dark photons

Contribution ID: 8

Type: **not specified**

The experimental search for axions and ALPs (Axel Lindner, DESY HH)

Wednesday, September 23, 2015 11:00 AM (45 minutes)

Session Classification: Axions, ALPs and dark photons

Contribution ID: 9

Type: **not specified**

SUSY Dark Matter (Alexander Belyaev, U Southampton & RAL)

Tuesday, September 22, 2015 9:00 AM (45 minutes)

Session Classification: WIMP models and (laboratory) searches

Contribution ID: **10**

Type: **not specified**

WIMP interactions in EFT and simplified models (Christopher McCabe, GRAPPA Amsterdam)

Tuesday, September 22, 2015 11:00 AM (45 minutes)

Session Classification: WIMP models and (laboratory) searches

Contribution ID: 11

Type: **not specified**

LHC DM search: results and perspectives (Nicholas Wardle, CERN)

Tuesday, September 22, 2015 9:45 AM (45 minutes)

Session Classification: WIMP models and (laboratory) searches

Contribution ID: 12

Type: **not specified**

Asymmetric Dark Matter (Steven West, Royal Holloway London)

Tuesday, September 22, 2015 1:20 PM (40 minutes)

Session Classification: WIMP models and (laboratory) searches

Contribution ID: 13

Type: **not specified**

Two-Component Dark Matter (Sonja Esch, WWU Münster)

Tuesday, September 22, 2015 2:00 PM (40 minutes)

Session Classification: WIMP models and (laboratory) searches

Contribution ID: 14

Type: **not specified**

Scalar dark matter from double-Higgs portal and the role of isospin-violating effect (Yun Jiang, Niels Bohr Institute Copenhagen)

Tuesday, September 22, 2015 2:40 PM (20 minutes)

Session Classification: WIMP models and (laboratory) searches

Contribution ID: 15

Type: **not specified**

Direct searches for WIMPs, challenges & perspectives with liquid noble gas detectors (Rafael Lang, Purdue)

Tuesday, September 22, 2015 4:00 PM (40 minutes)

Session Classification: WIMP models and (laboratory) searches

Contribution ID: 16

Type: **not specified**

Direct searches for WIMPs, challenges & perspectives with cryogenic bolometers (John Orrell, Pacific Northwest National Laboratory)

Tuesday, September 22, 2015 4:40 PM (40 minutes)

Session Classification: WIMP models and (laboratory) searches

Contribution ID: 17

Type: **not specified**

The EDELWEISS-III Search for Low Mass WIMPs (Lukas Hehn, KIT)

Tuesday, September 22, 2015 5:20 PM (20 minutes)

Session Classification: WIMP models and (laboratory) searches

Contribution ID: **18**

Type: **not specified**

Contributed Talks

Contribution ID: 19

Type: **not specified**

Modelling of astrophysical foreground (David Maurin, LPSC Grenoble)

Wednesday, September 23, 2015 11:45 AM (45 minutes)

Session Classification: Indirect DM searches

Contribution ID: 20

Type: **not specified**

Update on Fermi-LAT & the case for a 1-3 GeV excess in GC data (Francesca Calore, GRAPPA Amsterdam)

Wednesday, September 23, 2015 1:30 PM (40 minutes)

Session Classification: Indirect DM searches

Contribution ID: 21

Type: **not specified**

Positron excess, the search for nuclei and prospects with AMS-02 (Iris Gebauer, KIT)

Wednesday, September 23, 2015 2:40 PM (40 minutes)

Session Classification: Indirect DM searches

Contribution ID: 22

Type: **not specified**

Searching for a neutrino signal from DM annihilation in IceCube and SuperK (Martin Bissok, RWTH Aachen)

Wednesday, September 23, 2015 3:20 PM (40 minutes)

Session Classification: Indirect DM searches

Contribution ID: 23

Type: **not specified**

Implications on neutrino masses from studies of the cosmic large-scale structure with X-ray galaxy clusters (Hans Böhringer, MPE Garching)

Monday, September 21, 2015 6:30 PM (15 minutes)

Session Classification: CDM vs. WDM scenarios

Contribution ID: 24

Type: **not specified**

Probing the cosmic dark matter distribution using observations and simulations of clusters of galaxies (Gayoung Chon, MPE Garching)

Monday, September 21, 2015 6:45 PM (15 minutes)

Session Classification: CDM vs. WDM scenarios

Contribution ID: 25

Type: **not specified**

NLO predictions for Dark Matter production at the LHC (Mathieu Pellen, RWTH Aachen)

Tuesday, September 22, 2015 11:45 AM (20 minutes)

Session Classification: WIMP models and (laboratory) searches

Contribution ID: 26

Type: **not specified**

Dark Matter and Global Symmetries (Farinaldo da Silva Queiroz, MPIK Heidelberg)

Tuesday, September 22, 2015 12:05 PM (20 minutes)

Session Classification: WIMP models and (laboratory) searches

Contribution ID: 27

Type: **not specified**

Scalar dark matter in the B-L model (Carlos Yaguna, MPIK Heidelberg)

Tuesday, September 22, 2015 3:00 PM (20 minutes)

Session Classification: WIMP models and (laboratory) searches

Contribution ID: 28

Type: **not specified**

Current status of the CRESST experiment (Holger Kluck, HEPHY Vienna)

Tuesday, September 22, 2015 5:40 PM (20 minutes)

Session Classification: WIMP models and (laboratory) searches

Contribution ID: 29

Type: **not specified**

Production of CaWO₄ Crystals for the CRESST Experiment & Development of Neganov-Luke Amplified Cryogenic Light Detectors (Michael Willers, TU München)

Tuesday, September 22, 2015 6:00 PM (20 minutes)

Session Classification: WIMP models and (laboratory) searches

Contribution ID: 30

Type: **not specified**

Supernova Cosmology and prospects for understanding Dark Energy (Reynald Pain, IN2P3 Paris)

Tuesday, September 22, 2015 6:30 PM (45 minutes)

Session Classification: Joint Session with HAP Composition Workshop

Contribution ID: 31

Type: **not specified**

Dark Matter search in the decomposed Fermi Gamma ray sky (Torsten Ensslin, MPA Garching)

Wednesday, September 23, 2015 2:10 PM (15 minutes)

Session Classification: Indirect DM searches

Contribution ID: 32

Type: **not specified**

Search for Galactic dark matter substructures with Cherenkov telescopes (Moritz Hütten, DESY Zeuthen)

Wednesday, September 23, 2015 2:25 PM (15 minutes)

Session Classification: Indirect DM searches