Next Frontiers in the Search for Dark Matter

Report of Contributions

Contribution ID: 1 Type: not specified

Thermal-Dynamic Dark Matter: Finite Temperature Effects in the Early Universe

Monday, 23 September 2019 12:00 (30 minutes)

Presenter: BAKER, Michael

Session Classification: Dark Matter Models

Contribution ID: 2 Type: not specified

Heavy thermal dark matter

Monday, 23 September 2019 11:00 (30 minutes)

Presenter: KIM, Hyungjin

Session Classification: Dark Matter Models

Contribution ID: 3 Type: not specified

Models of light dark matter and detection

Monday, 23 September 2019 10:00 (30 minutes)

Presenter: LEE, Hyun Min

Session Classification: Dark Matter Models

Contribution ID: 4 Type: **not specified**

New light on the local dark matter density distribution from Gaia

Monday, 23 September 2019 16:00 (30 minutes)

Presenter: BELOKUROV, Vasily

Session Classification: Dark Matter and Structures

Contribution ID: 5 Type: **not specified**

The Dark Matter distribution of the Milky Way (its uncertainties and their effect on the determination of new physics)

Monday, 23 September 2019 16:30 (30 minutes)

Presenter: BENITO, Maria

Session Classification: Dark Matter and Structures

Contribution ID: 6 Type: not specified

Dark Matter Searches with Liquid Noble Gases

Wednesday, 25 September 2019 11:30 (30 minutes)

Presenter: PIRO, Marie-Cécile

Session Classification: Direct Searches

Contribution ID: 7 Type: **not specified**

Miniclustering axions

Presenter: REDONDO, Javier

Session Classification: Axions and ALPs

Contribution ID: 8 Type: not specified

Axions with Maglev

Thursday, 26 September 2019 12:30 (30 minutes)

Presenter: MARQUES TAVARES, Gustavo

Session Classification: Axions and ALPs

Contribution ID: 9 Type: not specified

Dark Matter - phonon scattering

Wednesday, 25 September 2019 12:00 (30 minutes)

Presenter: KNAPEN, Simon

Session Classification: Direct Searches

Contribution ID: 10 Type: not specified

Astrophysical axion bounds/hints

Presenter: MIRIZZI, Alessandro

Session Classification: Axions and ALPs

Contribution ID: 11 Type: not specified

Dark Matter Production and Sub-Structure in Non-Standard Cosmologies

Monday, 23 September 2019 12:30 (30 minutes)

Presenter: BLINOV, Nikita

Session Classification: Dark Matter Models

Contribution ID: 12 Type: not specified

The Large-Misalignment Mechanism for Compact Axion Structures

Thursday, 26 September 2019 12:00 (30 minutes)

Presenter: VAN TILBURG, Ken

Session Classification: Axions and ALPs

Contribution ID: 13 Type: not specified

Recent Progress in the Direct Detection of sub-GeV Dark Matter

Wednesday, 25 September 2019 10:30 (30 minutes)

Presenter: ESSIG, Rouven

Session Classification: Direct Searches

Contribution ID: 14 Type: not specified

Astrophysical axion bounds/hints

Friday, 27 September 2019 12:00 (30 minutes)

Presenter: MIRIZZI, Alessandro

Session Classification: Stellar Bounds

TBA

Contribution ID: 15 Type: not specified

TBA

Presenter: UNAL, Caner

Session Classification: Dark Matter and Structures

Contribution ID: 16 Type: not specified

Constraining dark matter with future cosmological surveys

Monday, 23 September 2019 14:30 (30 minutes)

Presenter: SCHNEIDER, Aurel

Session Classification: Dark Matter and Structures

Contribution ID: 17 Type: not specified

Pulsar timing probes compact objects

Wednesday, 25 September 2019 16:30 (30 minutes)

Presenter: RAMANI, Harikrishnan

Session Classification: Primordial Black Holes and Gravitational Waves

Contribution ID: 18 Type: not specified

Stochastic backgrounds of Gravitational Waves as an evidence of Primordial Black Holes

Wednesday, 25 September 2019 15:00 (30 minutes)

Presenter: RACCO, Davide

Session Classification: Primordial Black Holes and Gravitational Waves

Contribution ID: 19 Type: not specified

Gravitational wave probes of dark matter

Wednesday, 25 September 2019 14:30 (30 minutes)

Presenter: CROON, Djuna

Session Classification: Primordial Black Holes and Gravitational Waves

Contribution ID: 20 Type: not specified

Probing Small Scales of Inflation and the Imprints of Primordial Non-Gaussianity on Gravitational Wave Spectrum

Wednesday, 25 September 2019 15:30 (30 minutes)

Presenter: UNAL, Caner

Session Classification: Primordial Black Holes and Gravitational Waves

Contribution ID: 21 Type: not specified

Dark Matter Direct Detection - The Low-Mass Frontier

Wednesday, 25 September 2019 10:00 (30 minutes)

Presenter: PETRICCA, Federica

Session Classification: Direct Searches

Contribution ID: 22 Type: not specified

Searching for Dark Matter with Neutron Stars

Tuesday, 24 September 2019 12:00 (30 minutes)

Presenter: LINDEN, Tim

Session Classification: Indirect Searches

Contribution ID: 23 Type: not specified

Current limits in our understanding of solar interior from helioseismology and solar neutrinos

Friday, 27 September 2019 10:30 (30 minutes)

Presenter: SERENELLI, Aldo

Session Classification: Stellar Bounds

Contribution ID: 24 Type: not specified

An overview of experiments aiming to investigate the dark sector making use of proton beams

Presenter: DENEVERVILLE, Patrick

Session Classification: Searches at accelerators

Contribution ID: 25 Type: not specified

An overview of experiments aiming to investigate the dark sector making use of electron beams

Tuesday, 24 September 2019 15:00 (30 minutes)

Presenter: CELENTANO, Andrea

Session Classification: Searches at accelerators

Contribution ID: 26 Type: not specified

A general overview of the dark sector in relationship with searches at accelerators

Tuesday, 24 September 2019 14:30 (30 minutes)

Presenter: KRNJAIC, Gordan

Session Classification: Searches at accelerators

Contribution ID: 27 Type: not specified

Some new (and less so) ways to look for dark matter

Thursday, 26 September 2019 14:30 (30 minutes)

Presenter: BUDKER, Dmitry

Session Classification: Atomic Physics

Contribution ID: 28 Type: not specified

Stochastic fluctuations of bosonic dark matter

Thursday, 26 September 2019 17:00 (30 minutes)

Presenter: DEREVIANKO, Andrei

Session Classification: Atomic Physics

Contribution ID: 29 Type: not specified

New physics in atomic spectroscopy: an EFT approach

Thursday, 26 September 2019 16:30 (30 minutes)

Presenter: PESET, Clara

Session Classification: Atomic Physics

Contribution ID: 30 Type: not specified

Neutron Star Constraints on Dark Matter

Friday, 27 September 2019 11:00 (30 minutes)

Presenter: GARANI, Raghuveer

Session Classification: Stellar Bounds

Contribution ID: 31 Type: not specified

Constraining Dark Matter during the Cosmic Dawn

Presenter: SCHON, Sarah

Session Classification: Stellar Bounds

Contribution ID: 32 Type: not specified

Recent progress in the nuclear-matter equation of state from chiral effective field theory

Friday, 27 September 2019 12:30 (30 minutes)

Presenter: DRISCHLER, Christian

Session Classification: Stellar Bounds

Contribution ID: 33 Type: not specified

Aspects of Indirect Detection of Heavy Dark Matter

Tuesday, 24 September 2019 12:30 (30 minutes)

Presenter: SHAKYA, Bibhushan

Session Classification: Indirect Searches

Contribution ID: 34 Type: not specified

Axion Dark Matter Detection with CMB Polarization

Thursday, 26 September 2019 11:00 (30 minutes)

Presenter: FEDDERKE, Michael

Session Classification: Axions and ALPs

Contribution ID: 35 Type: not specified

Isolated dwarf galaxies as probes of dark matter

Monday, 23 September 2019 15:00 (30 minutes)

Presenter: COLLINS, Michelle

Session Classification: Dark Matter and Structures

Contribution ID: 36 Type: not specified

Searches for dark matter with charged cosmic rays

Tuesday, 24 September 2019 10:30 (30 minutes)

Presenter: CIRELLI, Marco

Session Classification: Indirect Searches

Contribution ID: 37 Type: not specified

Constraining Dark Matter during the Cosmic Dawn

Tuesday, 24 September 2019 11:00 (30 minutes)

Presenter: SCHON, Sarah

Session Classification: Indirect Searches

Contribution ID: 38 Type: not specified

Searches for dark matter with gamma rays

Tuesday, 24 September 2019 10:00 (30 minutes)

Presenter: CALORE, Francesca

Session Classification: Indirect Searches

Contribution ID: 39 Type: not specified

New physics searches with atomic clocks

Thursday, 26 September 2019 15:00 (30 minutes)

Presenter: SAFRANOVA, Marianna

Session Classification: Atomic Physics

Contribution ID: 40 Type: not specified

Axion and dark photon detection with dielectric haloscopes

Thursday, 26 September 2019 15:30 (30 minutes)

Presenter: BARYAKHTAR, Masha

Session Classification: Atomic Physics

Contribution ID: 41 Type: not specified

Dark matter searches at accelerators

Tuesday, 24 September 2019 15:30 (30 minutes)

Presenter: DOGLIONI, Caterina

Session Classification: Searches at accelerators

Contribution ID: 42 Type: not specified

TBA

Presenter: KIM, Hyungjin

Session Classification: Dark Matter Models

Contribution ID: 43 Type: not specified

Primordial Black Holes as a common origin for baryons and dark matter

Wednesday, 25 September 2019 17:00 (30 minutes)

Presenter: CLESSE, Sebastien

Session Classification: Primordial Black Holes and Gravitational Waves

Contribution ID: 44 Type: **not specified**

Directional Direct Dark Matter searches and the CYGNO/INITIUM project

Presenter: BARACCHINI, Elisabetta

Session Classification: Direct Searches

Contribution ID: 45 Type: not specified

TBA

Presenter: COLLINS, Michelle

Session Classification: Dark Matter and Structures

Contribution ID: 46 Type: **not specified**

Dark Matter searches at B-factories and first results from Belle II

Tuesday, 24 September 2019 16:30 (30 minutes)

Presenter: KOVALCHUK, Nataliia

Session Classification: Searches at accelerators

TBA

Contribution ID: 47 Type: **not specified**

TBA

Presenter: REDONDO, Javier

Session Classification: Stellar Bounds

Contribution ID: 48 Type: **not specified**

Dark radiation and Superheavy Dark Matter from Primoridal Black Holes

Presenter: HOOPER, Dan

Session Classification: Primordial Black Holes and Gravitational Waves

TBA

Contribution ID: 49 Type: not specified

TBA

Presenter: HAMBYE, Thomas

Contribution ID: 50 Type: not specified

Dark photon production of dark matter

Monday, 23 September 2019 10:30 (30 minutes)

Presenter: HAMBYE, Thomas

Session Classification: Dark Matter Models

Contribution ID: 51 Type: not specified

Early-Universe Simulations of the Cosmological Axion

Thursday, 26 September 2019 10:30 (30 minutes)

Presenter: BUSCHMANN, Malte

Session Classification: Axions and ALPs

Contribution ID: 52 Type: not specified

The photon as new physics mediator

Friday, 27 September 2019 10:00 (30 minutes)

Presenter: PRADLER, Josef

Session Classification: Stellar Bounds

Contribution ID: 53 Type: not specified

Heavy thermal dark matter

Presenter: KIM, Hyungjin

Session Classification: Dark Matter Models

Contribution ID: 54 Type: not specified

Search for dark sector physics at proton beam experiments

Tuesday, 24 September 2019 17:00 (30 minutes)

Presenter: CHU, Xiaoyong

Session Classification: Searches at accelerators

Contribution ID: 55 Type: not specified

Heavy thermal dark matter

Presenter: KIM, Hyungjin

Session Classification: Dark Matter Models

Contribution ID: 56 Type: not specified

Directional Direct Dark Matter searches and the CYGNO/INITIUM project

Tuesday, 24 September 2019 17:30 (30 minutes)

Presenter: BARACCHINI, Elisabetta

Session Classification: Direct Searches

Contribution ID: 57 Type: not specified

Direct Detection Signals from Absorption of Fermionic Dark Matter

Wednesday, 25 September 2019 12:30 (30 minutes)

Presenter: DROR, Jeff

Session Classification: Direct Searches

Contribution ID: 58 Type: not specified

Welcome to GGI

Monday, 23 September 2019 09:50 (10 minutes)

Presenter: DE CURTIS, Stefania

Session Classification: Conference Opening

Contribution ID: 59 Type: not specified

Implications of Noether's Theorem at Galactic Scales

Monday, 23 September 2019 17:00 (30 minutes)

Presenter: GARDNER, Susan

Session Classification: Dark Matter and Structures

Contribution ID: **60** Type: **not specified**

Dark radiation and Superheavy Dark Matter from Primoridal Black Holes

Thursday, 26 September 2019 10:00 (30 minutes)

Presenter: HOOPER, Dan

Session Classification: Primordial Black Holes and Gravitational Waves