

Session Program

10-17 Jul 2019



EPS-HEP2019

Cosmology

Ghent

International Convention Center and Ghent University - Campus Ledeganck, Ghent, Belgium

Friday 12 July

09:00

Cosmology: Common session on Cosmology, Astroparticle Physics and Gravitational Waves

Session | Location: Ghent, Campus Ledeganck - Aud. 2

09:00–09:20

Relic neutrinos: local clustering and consequences for direct detection

Speaker

Dr Stefano Gariazzo

09:20–09:40

Probing pseudo-Dirac mass splittings by observing the high-energy astrophysical neutrinos from blazars

Speaker

Dr tsugche Liu

09:40–10:00

Probing self-interacting dark matter through neutron stars

Speaker

Dr Yen-Hsun Lin

10:00–10:20

Constraints on Electromagnetic and Neutral Current Couplings of Dark Vector Boson to Standard Model Fermions by SN1987A

Speaker

Prof. Guey-Lin Lin

10:20–10:40

Vector-like leptonic dark matter, neutrino mass and collider signature

Speaker

Dr Narendra Sahu

10:40–11:00

A feeble window on leptophilic dark matter

Speaker

Sam Junius

11:00–11:30

Coffee break

11:50–12:10

Bounds on Planck-scale deformation of CPT from lifetimes and interference

Speaker

Prof. Wojciech Wislicki

12:10–12:30

Towards Understanding the Origin of Cosmic-Ray Electrons

Speaker

Cheng Zhang

12:30–12:50

Where do AMS-02 anti-helium events come from?

Speaker

Dr Vivian Poulin

12:50-13:10 **Scrutinizing the evidence for dark matter in cosmic-ray antiprotons**

Speaker

Dr Jan Heisig

13:10

14:30

Cosmology

Session | **Location:** Ghent, ICC - Baeckeland 1

14:30-15:00 **Cosmology with the Dark Energy Survey**

Speaker

Eusebio Sanchez

15:00-15:30

Unravelling Cosmic Acceleration with Gravitational Waves and Large-Scale Structure

Speaker

Prof. Lucas Lombriser

15:30-16:00

Status and perspectives of the Euclid mission

Speaker

Alessandro Renzi

16:00-16:30

Coffee break

16:30-16:50

A general framework for modeling the small-scale power in non-standard cosmologies

Speaker

Riccardo Murgia

16:50-17:10

Perturbations for Slotheon Field Dark Energy and its Evolution

Speaker

Prof. Debasish Majumdar

17:10-17:30

Cosmological constant as a quantum gravity correction to the QCD vacuum density

Speaker

Roman Pasechnik

17:30-17:50

New Einstein-Hilbert type action for space-time and matter - Nonlinear-supersymmetric general relativity(NLSUSYGR) -

Speaker

Prof. Kazunari Shima

18:00