

Monday 7 July

13:30

Parallel 2: Inflation / reheating / CMB

Session

13:30-13:50 Interface of Particle Physics and Cosmology: Higgs Inflation Revisited

Speaker

Tammi Chowdhury

13:50-14:10

Gravitational Neutrino Reheating : A minimal framework for reheating and leptogenesis

Speaker

RAJESH MONDAL

14:10-14:30 Reliable effective theory of warm inflation in the light of CMB data

Speaker

Prof. Vahid Kamali

14:30-14:50 False and genuine decoherence of primordial perturbations

Speaker

Dr Junsei Tokuda

14:50-15:10

Entanglement between pair-created universes bridged by a Euclidean wormhole

Speaker

Prof. Dong-han Yeom

15:10 15:40

Parallel 2: Gravitational and inflationary DM production Session

15:40-16:00 Production of Dark Matter during Reheating after Inflation

Speaker

Prof. Keith A. Olive

16:00-16:20

Cosmological gravitational particle production: Starobinsky vs Bogolyubov, uncertainties, and issues

Speaker

Duarte Miguel da Silva Feiteira

16:20-16:40 Gravitational production in the early universe

Speaker

Yann MAMBRINI

16:40-17:00 Imprints of Inflaton Fragmentation on Dark Matter Production

Speaker

Francisco Barreto Basave

17:00-17:20 Gravitational Waves from Gravitational Particle Production

Speaker

17:20

Marcos Alejandro García García

Tuesday 8 July

13:30

Parallel 2: Black holes / remnants

Session

13:30-13:50 Primordial black holes in the era of Roman

Speaker

William DeRocco

13:50-14:10 PBH formation during reheating

Speaker

Dr Juan Carlos Hidalgo

14:10-14:30

Building black holes and dark compact objects before Big Bang Nucleosynthesis

Speaker

Melissa Diamond

14:30-14:50 Static Planck stars as a dark matter candidate

Speaker

Edward Wilson-Ewing

14:50-15:10 Hawking radiation from primordial black holes

Speaker

Christopher Hirata

15:10 15:40

Parallel 2: DM models II

Session

15:40-16:00

Comprehensive Phenomenology of the Dirac Scotogenic Model: Novel Low-Mass Dark Matter

Speaker

Sushant Yadav 2020504

16:00-16:20 Seeking Dark matter candidates in the Alternative Left Right model

Speaker

Urjit Yajnik

16:20-16:40 General Implications of the Froggatt-Nielsen Mechanism

Speaker

Micah Mellors

16:40-17:00

Cosmological Constraints on Atomic Dark Matter from Large Scale Structure in the Nonlinear Regime

Speaker

Linda Yuan

17:20

Wednesday 9 July

11:00

Parallel 2: DM mechanisms Session 11:00-11:20 Boosted dark matter from semi-annihilations in the galactic center Dr Takashi Toma 11:20-11:40 Connecting the baryons to the dark matter of the Universe Speaker Alejandro Ibarra 11:40-12:00 Thermal effects on dark matter particle production Speaker Hugo Schérer 12:00-12:20 Boosted dark matter driven by cosmic rays and diffuse supernova neutrinos Speaker Tushar Gupta 12:20-12:40 Ultra-relativistic freeze-out: a bridge from WIMPs to FIMPs Speaker Stephen Henrich 12:40

Thursday 10 July

13:30 Parallel 2: Sub-GeV and ultralight DM I Session 13:30-13:50 Dark Vector Splitting Functions in Proton Bremsstrahlung Speaker Saeid Foroughi-Abari 13:50-14:10 A Dark Photon window into GeV DM Speaker Patrick Foldenauer 14:10-14:30 Ultralight Dark Matter Search with Space-Time Separated Atomic Clocks and **Cavities** Speaker Benjamin Roberts 14:30-14:50 Simulating Free Streaming in Warm Wave Dark Matter Speaker Siyang Ling 14:50-15:10 Bandwidths Broadening in Ultra-light dark Matter Search with Alkali-noble-gas **Apin Systems** Speaker Yuxuan He 15:10 15:40 Parallel 2: Heavy DM Session 15:40-16:00 Decaying heavy DM with RHN portals and dark gauge symmetry: PAMELA/AMS02, IceCUBE and KM3 Speaker Prof. Pyungwon Ko 16:00-16:20 Searching for heavy millicharged particles from the atmosphere Speaker Han Wu 16:20-16:40 New Mechanism for heavy dark matter production from cosmic phase transition and beyond Speaker

16:40-17:00 Heavy dark matter in the first stars

Fa Peng Huang

Speaker
Walter Tangarife

Friday 11 July

11:00

Parallel 2: Astrophysical / cosmological DM probes II

Session

11:00-11:20 ASTRA: Mapping the Cosmic Web's Dark Side with DESI DR2

Speaker

Jaime Forero-Romero

11:20-11:40

Growth Through Stasis: The Evolution of Matter Perturbations During a Stasis Epoch

Speaker

Prof. Brooks Thomas

11:40-12:00 The GAIA impact on Dark Matter Searches

Speaker

Prof. Subhabrata Majumdar

12:40