

Cosmology Parallel Session

Monday, July 6

Session I: (Dark Matter and the LHC)

[Auditorium](#)

- 14:00-14:20** E.K. Park (Bonn)
Neutralino Dark Matter and Collider Signal in an SO(10) model with Two-step Intermediate Scale Symmetry Breaking
- 14:20-14:40** J. Kalinowski (Warsaw)
Dark Matter in the USSM
- 14:40-15:00** Y. Mambrini (LPT Orsay)
(In)visible Z' and dark matter
- 15:00-15:20** Ch. Weniger
Decaying Dark Matter and PAMELA/FERMI
- 15:20-15:40** B. Kyae (Seoul)
Positron Excess from PAMELA/FERMI and Leptophilic GUT

15:40 Coffee Break

- 16:20-16:40** A. Vikman (CCPP, NYU)
Dark Matter via Many Copies of the Standard Model
- 16:40-17:00** J. Virkajarvi
Adjoint Dark Matter
- 17:00-17:20** T. Flacke (Wurzburg)
Non-minimal Universal Extra Dimensions - new dark matter candidates and bounds
- 17:20-17:40** M. Kakizaki (LAPTH, Paris)
The Thermal Abundance of Semi-Relativistic Relics
- 17:40- 18:00** F. Cyr-Racine (UBC)
Protohalo Constraints to the Resonant Annihilation of Dark Matter
- 18:00-18:20** A. Natarajan
Effect of WIMP annihilation on CMB and H21 cm observations
- 18:20-18:40** M. Endo (CERN)
Decaying gravitino dark matter and reheating temperature
- 18:40-19:00** M. Winkler (TUM)
The primordial abundance of stau NLSPs

Session II: (String Cosmology)

[Seminar Room 2](#)

- 16:20-16:40** A. Padilla (Nottingham)
Levitating DM
- 16:40-17:00** T. Battefeld (Princeton)
Multi-Field Inflation on the Landscape
- 17:00-17:20** A. Sil (CEA/Saclay)
SQCD Inflation & SUSY Breaking
- 17:20-17:40** P. Kostka (MPI)
Tribrid Inflation in Supergravity
- 17:40-18:00** K. Dutta (MPI)
Chaotic Inflation in Supergravity with Heisenberg Symmetry
- 18:00-18:20** J. Giblin (PI)
Precision Simulations of Bubble Collisions in Eternal Inflation
- 18:20-18:40** S. Huber (Sussex)
How fast do bubbles move?

Tuesday, July 7

Session III: (Gravity)

[Seminar Room 2](#)

- 14:00-14:20** C. de Rham (PI)
Cascading Gravity and Degravitation
- 14:20-14:40** S. Vernov (SINP-MSU)
Nonlocal Linear Cosmology
- 14:40-15:00** H. Steinacker (Vienna)
Reconciling Cosmology with Quantum Mechanics through Emergent Gravity
- 15:00-15:20** S. Patil
Filtering gravity semi-classically and the cosmological constant problem
- 15:20-15:40** D. Konikowska (Warsaw)
Effective equations of motion on the brane in higher order dilaton gravity
- 15:40-16:20** Coffee Break
- 16:20-16:40** A. Bernardini (S. Carlos)
Equilibrium and stability of mass varying particle stellar objects
- 16:40-17:00** M. Dominguez (IATE)
Measuring the dark matter equation of state and its cosmological consequences
- 17:00-17:20** A. Ross (Yale)
Effective Field Theories for Gravitational Waves

Thursday, July 9

Session: (Cosmological Perturbations)

[Seminar Room 2](#)

- 14:00-14:20** N. Barnaby (CITA)
Cosmological Fluctuations From Infra-Red Cascading During Inflation
- 14:20-14:40** M. Jackson (Leiden)
Superstring Cosmology: New Physics in the Sky
- 14:40-15:00** A. Koshelev (Brussel)
Cosmological perturbations in SFT inspired non-local scalar field models
- 15:00-15:20** H. Collins (NBI)
Enhancing non-Gaussianities by breaking local Lorentz invariance
- 15:20-15:40** G. Tasinato (Heidelberg)
Non-Gaussianity Beyond Slow-Roll in Multi-field Models of Inflation
- 15:40-16:20** Coffee Break
- Session: (Leptogenesis & Co)*
- 16:20-16:40** M. Stuke (Bielefeld)
Lepton asymmetries and cosmic trajectories on QCD phase diagrams
- 16:40-17:00** R. Luo (Glasgow)
Lepton Asymmetries and their Evolution in E6SSM
- 17:00-17:20** M. Drewes (DESY)
Quantum Mechanics of Leptogenesis
- 17:20-17:40** M. Garny (MPK)
Renormalization techniques for nonequilibrium quantum fields
- 17:40-18:00** N. Santos (IST)
Unparticle long range forces and BBN