

Talks are all 10' + 2' for questions!

Talk session 1a – THEORY (11/04, 14:15–15:15)

Bordin: Light Particles with Spin in the EFT of Inflation

Braglia: Isocurvature initial conditions in scalar-tensor theory of gravity.

Celoria: The cosmology of self-gravitating Λ -media

Hazra: The standard model of cosmology and beyond: constraints and forecasts

Haridasu: An improved model-independent analysis of the 'low-redshift' data to access the late-time dynamics

Talk session 1b – CMB and Structure Formation (11/04, 17:15–18:30)

Molinari: Cosmic birefringence with current and forthcoming Cosmic Microwave Background experiments

Buzzelli: The search for CMB B-mode polarization: the LSPE-SWIPE balloon experiment

Renzi F.: The Impact of Primordial Magnetic Fields on Future CMB Bounds on Inflationary Gravitational Waves

Paoletti: Constraints on primordial magnetism from the ionization history

Girelli: The Galaxy Formation Efficiency across the cosmic time

Vazza: The shocked cosmic web in the radio and X-ray window

Talk session 2a – Gravitational Waves, Multi-messenger, Numerical Methods (12/04, 11:00–12:30)

Raccanelli: Multi-messenger cosmology

Casalino: Mimetic Gravity after GW170817

Amati: Cosmology and multi-messenger astrophysics with THESEUS

Renzi A.: Massive Parallel CMB

Bonometto: SCDEW cosmologies and early collapsed systems

Lepori: Cosmic vorticity from N-body simulations

Talk session 2b — Numerical Methods and Dark Matter (12/04, 14:00—15:30)

Hashim: Degeneracy between primordial non-Gaussianity and coupled Dark Energy

Nori: AX-GADGET: a new code for cosmological hydrodynamical simulations of Fuzzy Dark Matter and Axion models

Giocoli: "Let There Be More Light"-Cones

Pizzuti: Constraining modified gravity models with galaxy cluster mass profiles: from data to simulations

Masi: Current constraints on dark matter annihilation combining cosmic rays and CMB observations

Despali: Constraining the nature of dark matter with substructure lensing

Fontaine: The Radial Tully-Fisher relations in dwarf spiral galaxies

Talk session LSS surveys 1 (13/04, 11:30—12:30)

Noda: BAO Extractor: A novel robust method to infer Baryon Acoustic Oscillations scales from galaxy survey data

Metcalfe: Weak Lensing of the Lyman-alpha Forest

Bertacca: Relativistic wide-angle galaxy power spectrum and bispectrum on the light-cone

Lazanu: Higher-order Matter Bispectra in Perturbation Theory

Villa: Lensing convergence in galaxy clustering in LCDM and beyond

Talk session LSS surveys 2 (13/04, 14:00—15:00)

Alchera: Analysis of the angular dependence of time delay in gravitational lensing

Fanizza: Non linear effects in the observed redshift: how to obtain gauge invariance for non linear observables

Cabass: Imprints of Oscillatory Primordial Bispectra on Galaxy Clustering

Colavincenzo: Dark matter constraints from cross-correlation signal

Karagiannis: Combined LSS and CMB forecasts on Primordial Features