

Relativistic Effects and Novel Observables in Cosmology

Tuesday 09 July 2024

Short talks - Sciences II/0-A 150 - Tingry Auditorium (11:10-12:40)

-Conveners: Chris Clarkson

time	[id] title	presenter
11:10	[42] GaPSE.jl: a model for the Galaxy Power Spectrum Estimator	FOGLIENI, Matteo
11:25	[11] General relativistic effects in the Spherical Fourier Bessel power spectrum with SPHEREx	GRASSHORN GEBHARDT, Henry WEN, Yunfei (Robin)
11:40	[10] Wide-angle and Doppler corrections to the power spectrum	GUEDEZOUNME, SECLOKA LAZARE
11:55	[41] The importance of accuracy in the modeling of large scale galaxy clustering	SPEZZATI, Francesco
12:10	[27] Exact Modeling of Power Spectrum Multipole through Spherical Fourier-Bessel Basis	WEN, Yunfei (Robin)
12:25	[56] Cosmological cartography - The full-sky Spherical Fourier-Bessel power spectrum in general relativity	SEMENZATO, Federico

Short talks - Sciences II/0-A 150 - Tingry Auditorium (16:00-17:45)

-Conveners: Enea Di Dio

time	[id] title	presenter
16:00	[36] A multi-tracer approach to constrain primordial non-Gaussianity: radio-optical synergies and the analysis of MeerKAT data	BARBERI SQUAROTTI, Matilde
16:15	[15] Multipoles of the galaxy bispectrum on a relativistic light cone	ADDIS, Christopher
16:30	[22] Amplitude and Importance of Relativistic Contributions to the Galaxy Bispectrum	ROSSITER, Samantha
16:45	[35] Relativistic matter bispectrum of cosmic structures	MONTANDON, Thomas
17:00	[43] Relativistic effects and the streaming model	DAM, Lawrence
17:15	[19] Relativistic dipole in galaxy-ellipticity correlations	SAGA, Shohei
17:30	[39] Towards Rigorous Modeling of Counts-in-Cells Statistics	CHUDAYKIN, Anton

Wednesday 10 July 2024

Short talks - Sciences II/0-A 150 - Tingry Auditorium (11:00-12:30)

-Conveners: Stefano Camera

time	[id] title	presenter
11:00	[51] Estimating covariant cosmographic parameters in the local universe	KALBOUNEH, Basheer
11:15	[38] Pantheon+ and friends: an insight on peculiar velocities probes	SORRENTI, Francesco
11:30	[24] Fast and spurious: determining our peculiar velocity with galaxy surveys	LACASA, Fabien
11:45	[13] Parity violation in the observed galaxy trispectrum	PAUL, Pritha
12:00	[47] Examining Late-Time Anisotropy With Weak-Lensing B-Modes and Tomography	ADAM, James
12:15	[16] Towards Classifying Our Universe with Neural Networks	BOSE, Benjamin

Short talks - Sciences II/0-A 150 - Tingry Auditorium (16:30-18:00)

-Conveners: Camille Bonvin

time	[id] title	presenter
16:30	[20] Detecting Relativistic Doppler in Galaxy Clustering via Multi-tracing a Single Galaxy Population	MONTANO, Federico
16:45	[30] Accurate modeling of 3D large-scale galaxy clustering	RACCANELLI, Alvise
17:00	[28] Unequal Time Effects in Large Scale Structure Correlators	STEELE, Theo
17:15	[40] Unequal-time corrections to the power spectrum	VANZAN, Eleonora
17:30	[31] Complex Evaluation of Angular Power Spectra - Case Study	HERTZSCH, Benjamin
17:45	[46] Simulating HI galaxies with Semi-Analytical Models in preparation for the SKAO late-time cosmology case	MAYOR, Joël

Thursday 11 July 2024

Short talks - Sciences II/0-A 150 - Tingry Auditorium (11:00-12:30)

-Conveners: José Fonseca

time	[id] title	presenter
11:00	[37] Infrared-safe cosmological probes in any gravity theory	MAGI, Matteo
11:15	[21] Testing gravity through the distortion of time	CASTELLO, Sveva
11:30	[32] Impact of Peculiar Velocities on Color Selection and the Large Scale Structure of Galaxy Surveys	FRIEDMAN-SHAW, Batia
11:45	[26] Combining the Weyl potential and galaxy velocities: new measurements of E_G	GRIMM, Nastassia
12:00	[14] Non-Gaussianities in the Hubble-Lemaître diagram	SCHIAVONE, Tiziano
12:15	[12] Cross-correlations with gravitational waves in luminosity distance space	ZAZZERA, Stefano

Short talks - Sciences II/0-A 150 - Tingry Auditorium (16:00-17:00)

-Conveners: Julien Carron

time	[id] title	presenter
16:00	[44] CMB curl lensing	ROBERTSON, Mathew
16:15	[45] Testing Gravity with cross-correlations of CMB and LSS	FRITTOLI, Guglielmo
16:30	[18] Novel Bayesian Inferences from the Cosmic Microwave Background	SAHA, Sayan
16:45	[79] non-Gaussian biases on CMB lensing reconstruction	DARWISH, OMAR

Friday 12 July 2024

Short talks - Sciences II/0-A 150 - Tingry Auditorium (11:00-12:15)

-Conveners: Maria Berti		
time	[id] title	presenter
11:00	[6] What makes a filament?	FELDBRUGGE, Job
11:15	[25] Cosmic Voids as Powerful Probe in Next-Generation Surveys	VERZA, Giovanni
11:30	[33] Gravitational collapse, cosmic web and (almost) spherical cows	GIANI, Leonardo
11:45	[17] Light propagation through discrete dark matter and its relativistic effects	P. SHANMUGARAJ, Annamalai
12:00	[52] 21cm IM with HIRAX: Simulation and Parameter Estimation	NISTANE, Viraj