

Tensions in Cosmology



Sep 7 - Sep 12, 2023

Mon-Repos, Corfu, Greece

TIMETABLE

Wednesday 06/09/2023

Session	Time	Title
	11:00 –13:30	Registration
	18:00-20:00	

Thursday 07/09/2023

Time	Speaker	Title
8:00 – 8:45		Registration
8:45-9:00		Welcome – E. Saridakis, E. Di Valentino
9:00-10:00	L. Perivolaropoulos	The challenges of Λ CDM and the physics transition approaches
10:00-11:00	G. Risaliti	Quasars as high-redshift standard candles
11:00-11:30		Coffee Break
11:30-12:00	M. P. Dabrowski	Almost extensivity of Barrow entropy as favoured by the full dynamical and geometrical set of cosmological data
12:00-12:30	P. Di Bari	Addressing the cosmological tensions within a Majoron model
12:30-13:00	K. Dialektopoulos	Update on the use of Artificial Neural Networks in cosmology
13:00-16:00		Lunch+Beach Break
16:00-16:30	M. Petronikolou	Alleviating both H_0 and σ_8 tensions through Tsallis entropy
16:30-17:00	C. Pallis	High-Scale Supersymmetry from Inflection-Point Sgoldstino Inflation
17:30-17:00		Coffee Break
17:30-18:00	J. Sorce	Disentangling tensions from systematics with CLONES (Constrained Local & Nesting Environment Simulations)
18:00-18:30	C. Tzerefos	Signatures of no-scale supergravity in Nanograv and beyond
18:30-19:00	E. Babichev	NANOGrav spectral index $\gamma=3$ from melting domain walls
21:00		Welcome Drinks

Friday 08/09/2023

Time	Speaker	Title
9:00-10:00	I. Antoniadis	Landscape, swampland and extra dimensions
10:00-11:00	D. Staicova	On the Robustness of the Constancy of the Supernova Absolute Magnitude Non-parametric Reconstruction & Bayesian approaches
11:00-11:30		Coffee Break
11:30-12:00	L. A. E. Torres	Reconstructing the Dark Energy
12:00-12:30	J. Dent	Primordial black holes, first order phase transitions, and superradiance
12:30-13:00	S. Tsilioukas	Dark Energy from topology change at the foam level
13:00-15:00		Lunch+Beach Break
15:00 – 20:00		BOAT EXCURSION

Saturday 9/09/2023

Time	Speaker	Title
9:00-10:00	R. Beaton	TBA
10:00-11:00	W. D. Kenworthy	Two out of Three Ain't Bad A SHOES Two Rung Distance Ladder
11:00-11:30		Coffee Break
11:30-12:00	O. Akarsu	Simultaneous alleviation of major cosmological tensions through Λ CDM cosmology
12:00-12:30	V. Zarikas	Renormalization group approaches to Quantum Gravity and Tensions in Modern Cosmology
12:30-13:00	S. J. Wang	Is there a Hubble-variation tension?
13:00-16:00		Lunch+Beach Break
16:00-16:30	F. Anagnostopoulos	Observational constraints on $f(Q)$ gravity
16:30-17:00	A. Lympiris	Holographic dark energy through Loop-Quantum Gravity inspired entropy
17:00-17:30		Coffee Break
17:30-18:00	L. K. Duchaniya	Cosmological implication of $f(T)$ gravity models through phase space analysis
18:00-18:30	A. Abebe	The more things change
18:30-19:00	N. Drepanou	Dark Matter - like effects in $f(Q)$ gravity

Sunday 10/09/2023

Time	Speaker	Title
9:00-10:00	V. Poulin	The Ups and Downs of Early Dark Energy
10:00-11:00	S. Vagnozzi	Seven hints that early-time new physics alone is not sufficient to solve the Hubble tension
11:00-11:30		Coffee Break
11:30-12:00	N. Katirci	Scalar field emulator via anisotropically deformed vacuum energy
12:00-12:30	K. Migkas	Probing H_0 isotropy and bulk flows with eROSITA and galaxy cluster scaling relations
12:30-13:00	B. Kalbouneh	The multipolar structure of the local universe
13:00-16:00		Lunch+Beach Break
16:00-16:30	A. Hell	Exorcizing the ghosts in higher-derivative gravity
16:30-17:00	J. Q. Jiang	From the Hubble tension to the Harrison-Zeldovich spectrum
17:00-17:30		Coffee Break
17:30-18:00	C. E. Rivera	Quasar $f(T)$ cosmologies
18:00-18:30	J. Schiff	Rethinking Recombination Primordial magnetic fields small-scale inhomogeneities and their implications for the Hubble tension
18:30-19:00	E. Specogna	
20:00-00:00		Conference Dinner (Greek Night)

Monday 11/09/2023

Time	Speaker	Title
9:00-10:00	A. Melchiorri	Cosmic Microwave Background Polarization Measurements and Cosmological Data Tensions
10:00-11:00	W. Giare	Cosmology from the smallest scales
11:00-11:30		Coffee Break
11:30-12:00	P. Frampton	A Model of Dark Matter and Energy
12:00-12:30	G. L. Torres	Fractional Cosmology with conformal and nonminimal couplings a possible resolution to H0 tension?
12:30-13:00	Harshna Balhara	Observational cosmology in higher-order F(R,G) Gravity
13:00-16:00		Lunch+Beach Break
16:00-16:30	G. Otalora	Generating primordial fluctuations from modified teleparallel gravity
16:30-17:00	H. Nielsen	Domain Walls and Hubble constant Tension
17:00-17:30		Coffee Break
17:30-18:00	G. Ye	Shape of CMB lensing in early dark energy cosmology
18:00-18:30	S. Lu	A possible scheme to alleviate the small-scale tension encountered by fuzzy dark matter
18:30-19:00	P. K. Dhankar	Viscous Modified Ghost Scalar Field Dark Energy Models with Varying G

Tuesday 12/09/2023

Time	Speaker	Title
9:00-10:00	M. Van Putten	The Hubble parameter of the Local Distance Ladder from dynamical dark energy with no free parameters
10:00-11:00	Agnieszka Pollo	Galaxy evolution, observational biases and cosmological tensions
11:00-11:30		Coffee Break
11:30-12:00	T. Patil	Interacting scalar field models-observational data
12:00-12:30	I. Ben-Dayan	Resolution of cosmological tensions using Unparticles
12:30-13:00	E. Ozulker	Tackling the tensions of cosmology with a negative dark energy density
13:00-16:00		Lunch+Beach Break
16:00-16:30	Y. M. Hu	Cosmological tensions and strong coupling issue in the $f(T)$ gravity
16:30-17:00	E. Asencio	The distribution and morphologies of Fornax Cluster dwarf galaxies suggest they lack dark matter
17:00-17:30	L. Á. Gergely	Static and radiative cylindrically symmetric spacetimes
17:30-18:00		Coffee Break
18:00-19:00		Round Table Discussion: The future path