Session Program

23 May 2023

UK Cosmo at Cambridge

Scientific Talks

Tuesday 23 May

s	Scientific Talks: Morning 1 Session Location: Department of Applied Mathematics and Theoretical Physics, Wilberforce Road, Cambridge CB3 0WA
	10:00-10:15 Dark Energy (and modified gravity) in two body problem: theoretical implications and observational constraints
	10:15-10:30 Radiation from Axion Strings with Adaptive Mesh Refinement
.0:45	10:30-10:45 Growth of structure in regularised 4D Einstein-Gauss-Bonnet
s	Scientific Talks: Morning 2 Session Location: Department of Applied Mathematics and Theoretical Physics, Wilberforce Road, Cambridge CB3 0WA
	11:45-12:00 Cosmology and strong gravity with a subdominant scalar field
	12:00-12:15 The cosmological constant is probably still zero
	12:15-12:30 Clockwork Cosmology
	<mark>12:30-12:45</mark> How to find the Feynman Rules from any scalar-tensor theory and not collapse in the process
s	Scientific Talks: Afternoon 1 Session Location: Department of Applied Mathematics and Theoretical Physics, Wilberforce Road, Cambridge CB3 0WA
	13:45-14:00 Spinning primordial black holes in a matter dominated universe
	14:00-14:15 Can primordial black holes form without fine-tuning?
	14:15-14:30 Primordial black holes and stochastic inflation beyond slow roll
	^{14:30-14:45} Multi-field inflation with large scalar fluctuations: non-Gaussianity and perturbativity
	14:45-15:00 Quantum field theory in curved spacetime and the CMB hemispherical power asymmetry
	15:00-15:15 Unimodular Hartle-Hawking wave packets and their probability interpretation

15:30	15:15-15:30 Impact of a quantum gravity bounce on cosmological perturbations
16:00	Scientific Talks: Afternoon 2 Session Location: Department of Applied Mathematics and Theoretical Physics, Wilberforce Road, Cambridge CB3 0WA
	16:00-16:15 New Insight on Neutrino Dark Matter Interactions from Small-Scale CMB Observations
	16:15-16:30 Modelling of Astrophysical Systematics for Cosmology with LSST
	16:30-16:45 The Wide-Angle Power Spectrum
	16:45-17:00 The observed number counts in luminosity distance space
	17:00-17:15 The angular power spectrum of gravitational-wave transient sources as a probe of the large-scale structure
17:30	17:15-17:30 Dictionary Learning: A Novel Approach to Detecting Binary Black Holes in the Presence of Galactic Noise with LISA

17:30