

Sixteenth Marcel Grossmann Meeting

Tuesday, 6 July 2021

New Horizons in Cosmology with CMB Spectral Distortions: Block 1 (09:30 - 12:30)

-Conveners: Andrea Ravenni; Jens Chluba

time	[id] title	presenter
09:30	Introduction	
09:36	[1040] Unveiling the early universe with CMB spectral distortions	SILK, Joe
10:06	[282] Primordial black holes and their relation with spectral distortions	KOHRI, Kaz
10:24	[857] Constraint on the dark matter halo formation in the early universe by the free-free emission	ABE, Katsuya
10:36	[760] Constraining dark photons from CMB data	SOKOLENKO, Anastasia
10:54	[664] Probing Axion-Like Particles from the upcoming CMB experiments	MUKHERJEE, Suvodip
11:12	[513] Theoretical and numerical aspects of CMB spectral distortions from non-thermal electromagnetic energy injections	Mr ACHARYA, Sandeep Kumar
11:30	[311] New Planck tSZ map and its cosmological analysis	TANIMURA, Hideki Dr AGHANIM, Nabila Dr DOUSPIS, Marian
11:42	[413] Implications of magnetic field on IGM temperature and tSZ effect in presence of Baryon-DM interaction	MALIK, Sunil
11:54	[173] CMB μ T cross-correlations as a probe of PBH scenarios	OZSOY, Ogan
12:12	[983] Cross-correlation between CMB polarization and μ -distortion anisotropies as a path towards the detection of small-scale primordial non-Gaussianity	REMAZEILLES, Mathieu

Thursday, 8 July 2021

New Horizons in Cosmology with CMB Spectral Distortions: Block 2 (16:30 - 19:30)

-Conveners: **Andrea Ravenni; Jens Chluba**

time	[id] title	presenter
16:30	[576] Microwave spectro-polarimetry of matter and radiation across space and time	Dr DELABROUILLE, Jacques
17:00	[919] CMB as backlight: Deeper look into galaxy clusters with lensing and SZ effects	BASU, Kaustuv
17:18	[1038] CMB spectral distortions: the COSMO experiment	Prof. MASI, Silvia
17:36	[1037] Spectral distortion constraints on photon injection from low-mass decaying particles	BOLLIET, boris
17:54	[30] Testing the expansion rate with the cosmological recombination lines	HART, Luke
18:12	[79] The role of CMB spectral distortions in the Hubble tension	LUCCA, Matteo
18:30	[1036] Testing dark matter interactions with CMB spectral distortions	ALI-HAIMOUD, Yacine
18:48	[819] BISOU: a balloon project to measure the CMB spectral distortions	MAFFEI, Bruno
19:06	Discussion	