Contribution ID: **102** Type: **not specified**

New Measurements of CMB Polarisation from SPTpol

Monday 28 November 2016 14:00 (20 minutes)

Measurements of the polarisation of the cosmic microwave background (CMB) are rapidly becoming an important tool to test the standard model of cosmology. In particular, searches for the faint CMB B-mode signals offer the prospect of detecting inflationary gravitational waves on large angular scales and mapping out the large scale distribution of matter in the Universe through CMB lensing on smaller angular scales. SPTpol is a CMB polarisation experiment located at the South Pole that has been pursuing both goals since 2012. I present the latest polarisation power spectra from SPTpol and discuss their cosmological implications. I will also say a few words about a new and dramatically improved CMB polarisation experiment, SPT-3G, which is slated for first light this January.

Summary

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Session Classification: Cosmic microwave background and Large Scale Structure