

Cosmology from the South Pole Telescope

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The Planck satellite has set a new frontier for cosmology, providing the most accurate measurements of cosmological parameters to date. It also left us with a number of new, interesting mysteries that might hint to the discovery of new physics. Current and upcoming CMB ground-based experiments will be able to explore these questions further, hopefully providing new insights into these problems. In this talk, I will review cosmological constraints from the first power spectrum measurements using SPT-3G, the third-generation receiver on the South Pole Telescope. I will present how the first SPT-3G results compare to the Planck and ACT constraints and I will present prospects for the future.

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