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## **Status and Science from the SPT-3G Cosmic Microwave Background Receiver**

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SPT-3G is a third generation camera for the 10-meter diameter South Pole Telescope (SPT), which is designed to measure the cosmic microwave background (CMB). SPT-3G began a 6-year 1500 square degree survey in February 2018, which will produce measurements of CMB temperature and polarization anisotropies with an unprecedented combination of angular resolution and sensitivity. These measurements will enable a broad range of cosmological studies including searching for inflationary gravitational waves, constraining the mass of the neutrino, constraining the energy density of light relativistic species, and characterizing the properties of dark energy through its effect on the growth of structure via galaxy clusters. In this talk, I will summarize the status of the survey, highlight the science goals and projected constraints, and describe preliminary results.

**Authors:** Mr PAN, Zhaodi (The University of Chicago); SPT-3G COLLABORATION, .

**Presenter:** Mr PAN, Zhaodi (The University of Chicago)

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