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SPT-3G: latest results and future prospects

SPT-3G is the latest receiver installed on the South Pole Telescope (SPT), a dedicated cosmic microwave background (CMB) telescope at the Amundsen-Scott station in Antarctica. The 16,000 detectors and 10-meter primary mirror allow us to produce low-noise and high-resolution maps of the millimeter-wave sky in temperature and polarisation. These data are rich in cosmological information and power an array of science cases, such as primary CMB anisotropies, secondary CMB anisotropies (including lensing), cluster cosmology, and astrophysical signals. In this talk, I will present the latest cosmology results from the analysis of CMB temperature, polarisation, and lensing power spectra derived from two years of SPT-3G observations of the main survey field covering 4% of the sky. I will give an overview of work in progress, including the analysis of additional observation fields that extend the survey area to 25% of the sky, and discuss the future of the telescope.

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