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SPT-3G D1: CMB Temperature and Polarization Power Spectra and Cosmology from 2019–2020 Observations of the SPT-3G Main Field (1)

lundi 13 octobre 2025 14:40 (20 minutes)

I will present measurements of the temperature and E-mode polarization angular power spectra of the cosmic microwave background (CMB) from observations covering 4% of the sky with SPT-3G, the current camera on the South Pole Telescope. These maps are the deepest ever used in a CMB TT/TE/EE analysis. Both the maps and resulting power spectra have been rigorously validated through blind and unblind tests. Our measurements of the lensed EE and TE spectra are the most precise to date from $\ell = 1800$ to 4000 and $\ell = 2200$ to 4000, respectively. My presentation will cover the measured band powers, validation methods, data model, and cosmological implications.

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Classification de Session: Ground-based observatories