

Towards constraining cosmological parameters from SPT-3G observations of 25% of the sky

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The South Pole Telescope (SPT) observes the CMB with its 10m primary mirror from the South Pole and its third generation camera SPT-3G started collecting data in 2018. The Wide field is one of the three regions observed by SPT-3G and extends the survey area to cover 25% of the sky in total. This field is divided in nine subfields spread in the south hemisphere around the galactic plane with a declination ranging from -20deg to -80deg. These features represent new challenges to be taken into account in the analysis. In this talk, I will discuss the analysis strategy of this field. I will show the tests we performed to ensure that the loss of information due to analyzing the subfields independently is negligible on cosmological parameters. I will also present how the Wide field complements the two other fields observed by SPT and how it allows to test models beyond LCDM, namely those proposed to solve the Hubble tension.

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