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tSZ in high ell CMB data as cosmological probe: SPT+Planck

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Small scale CMB data contain a lot of cosmological information hidden in the different components : primordial CMB, tSZ effect, kSZ effect, CIB. Standard analyses assume templates for non primordial CMB component and lose the cosmological signature of large scale structures contained in secondary anisotropies.

I will present a new analysis of SPT data at small scales where the tSZ spectrum is derived from the halo model and bring additional constraints. I will show the cosmological and scaling relation parameter constraints obtained by combining SPT CMB data and Planck tSZ measurements.

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