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## **tSZ in high $\ell$ CMB data as cosmological probe: SPT+Planck**

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 components 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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