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Assessing consistency between CMB temperature and polarization measurements

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CMB observations from the Planck satellite have provided cosmic variance limited temperature measurement at large and intermediate scales. In the next couple of years, ground-based experiments such as SPT, ACT and Simons Observatory will make a high resolution measurement of CMB polarization, allowing the extraction of competitive cosmological informations from C_{ℓ}^{EE} and C_{ℓ}^{TE} . Physics beyond the standard model, or unmodelled instrumental systematics could introduce some inconsistencies between T and E measurements with respect to the Λ CDM model. In this work we apply different methods to quantify a possible scale dependent T-E inconsistency in different CMB datasets : Planck, ACTPol and SPT3G.

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