

Liguori: "Constraining K-mouflage models with CMB data"

Friday, 29 September 2017 09:30 (35 minutes)

I will discuss the implementation of K-mouflage models of Modified Gravity in the EFTCAMB solver and its application to constraining K-mouflage theories using Planck data. I will show that, since K-mouflage presents a non-trivial expansion history at high-redshift, interesting bounds on relevant parameters can already be placed by looking at primordial CMB spectra. Finally, I will briefly discuss CMB-galaxy cross-correlation in K-mouflage scenarios, showing that also in this case an interesting phenomenology arises, due to the evolution of the growth factor in the matter dominated regime.