



Contribution ID: 750

Type: **Talk in the parallel session**

Alleviating H_0 and σ_8 tensions with $f(T)$ gravity, using the effective field theory approach

Thursday, 8 July 2021 17:33 (19 minutes)

We report how to alleviate both the H_0 and σ_8 tensions simultaneously within torsional gravity from the perspective of effective field theory. Following these observations, we construct concrete models of Lagrangians of torsional gravity. Specifically, we consider a novel $f(T)$ parametrization where two out of the three parameters are independent. This modified gravity model can efficiently fit observations alleviating the two tensions simultaneously, hence offering an additional argument in favor of gravitational modification.

Primary author: Prof. SARIDAKIS, Emmanuel (National Observatory of Athens)

Presenter: Prof. SARIDAKIS, Emmanuel (National Observatory of Athens)

Session Classification: Status of the H_0 and σ_8 Tensions: Theoretical Models and Model-Independent Constraints

Track Classification: Cosmic Microwave Background: Status of the H_0 and σ_8 tensions: theoretical models and model-independent constraints