



Contribution ID: 25

Type: **Talk (virtual)**

## **A reconstruction scheme for $f(T)$ gravity and information theory based model validation**

*Monday 5 September 2022 16:10 (20 minutes)*

Here, We will be reporting a study on Generalized Chaplygin Gas(GCG) in bulk viscosity framework. We have reconstructed  $f(T)$  gravity considering that the background fluid, is evolving as GCG interacting with pressureless dark matter in a viscous scenario. Stability of reconstructed  $f(T)$  has been analyzed against small perturbations. The model has been finally validated against observational data through Shannon entropy maximization and Gaussian Mixture Model.

**Author:** SAHA, Sanghati (Amity University Kolkata)

**Co-author:** Dr CHATTOPADHYAY, Surajit (Department of Mathematics, Amity University, Kolkata)

**Presenter:** SAHA, Sanghati (Amity University Kolkata)