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

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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.

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