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Interacting Viscous Dark fluid models

The observational data shows that the universe is dominated by the dark sector, which is comprising of dark matter ρ_{dust} and dark energy ρ_{Λ} . This is with budget allocation of 25% to dark matter while dark energy is about 70%. Now since most of the existing work in the literature is limited to the study of background cosmological dynamics, the project aims at deriving the equations that govern the evolution of a cosmological perturbations of a universe filled with interacting viscous dark fluids and analyzing their behaviour as compared to large scale structure. We will model and derive the background cosmological equations of interacting viscous fluid using the little rip model and pseudo rip model and analyze the results obtained.

Apply to be considered for a student ; award (Yes / No)?

Yes

Level for award;(Hons, MSc, PhD, N/A)?

MSc

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