

SAIP2022



Contribution ID: 36

Type: Oral Presentation

Cosmological perturbations of interacting dark fluid models.

Monday, 4 July 2022 16:15 (15 minutes)

Astronomical data show that the observed universe is dominated by the dark sector, which is comprising of dark matter and dark energy. Since most of the existing work in the literature is limited to the study of background cosmological dynamics, the project studies late time cosmology where the universe is filled with dark fluids, namely dark matter and dark energy interacting with each other. The equations that govern the evolution of cosmological perturbations of viscous dark fluids will be derived and analysed to see if the theory explains the structure formation of the universe. In the above-mentioned case different models will be investigated namely little rip, pseudo rip and bounce cosmology models.

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

Yes

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

MSc

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Session Classification: Astrophysics

Track Classification: Track D1 - Astrophysics