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Novel Model Independent Constraints on Dark Matter and Cosmic Neutrinos

Thursday 11 August 2022 15:50 (20 minutes)

In this talk, we present model-independent constraints on dark matter and cosmic neutrinos through gravitational interactions on asteroidal objects. The bounds only rely on the matter density around the trajectories of the asteroids. The new bounds are model-independent but are most meaningful in constraining dark matter and cosmic neutrino scenarios with significant clustering.

We also discuss the studies of constraining cosmologically interesting modified gravity models.

Collaboration name

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