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TALK: Decoding the Mystery of Dark Matter with Celestial Objects (Speaker: Anupam Ray)

Friday, June 21, 2024 3:00 PM (45 minutes)

Dark Matter (DM) remains mysterious. Despite decades of experimental and theoretical efforts, its microscopic identity is still unknown to us. In this talk, I will walk you through how a variety of celestial objects can be utilised as powerful DM detectors. This astrophysical probe, complementary to the terrestrial and cosmological probes, covers a significant portion of the DM parameters (DM mass and its interaction strength with nucleons) which are otherwise remains elusive.

Presenter: RAY, Anupam (UC, Berkeley)