

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE

2 A & B, Raja S. C. Mullick Road, Jadavpur, Kolkata-32



OPEN THESIS COLLOQUIUM

Title : "Exploring particle dark matter in U(1) extended scenarios: From Freeze-out to Freeze-in"

Speaker : Nandini Das, School of Physical Sciences, IACS

Date : 03 September, 2025

Time : 15:00 HRS (IST)

Venue : Physics Seminar Room (C-406), 3rd Floor, Centenary Building, IACS

Abstract : The existence of dark matter (DM) in the universe is an unavoidable fact while the nature of it remains as an enigma. In this talk, we would try to explore the possibility of having a particle dark matter through the lens of its detection prospects. With examples of models with Freeze-out and Freeze-in mechanisms, we study the corresponding model phenomenology and detectability of the DM candidate.

All are cordially invited to attend.