



INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE

2A & 2B, Raja S. C. Mullick Road, Jadavpur, Kolkata-700 032

School of Physical Sciences

SEMINAR NOTICE

Title : Going beyond Einstein to solve the crisis in cosmology

Speaker : Dr. Indranil Banik, University of Saint Andrews, UK

Date : August 25, 2022 (Thursday)

Time : 15:30 hours (IST)

Venue : Online Mode using Google meet Platform

Online link of the seminar:

<https://meet.google.com/aak-onwu-pja>

Abstract:

Galaxies rotate much faster than expected based on Einstein's theory of gravity. This can be explained using dark matter, but a much better explanation is provided by Milgromian dynamics or MOND, which was developed in the 1980s. In this talk, I will review the basics of MOND and how it works in galaxies but also on larger scales. I will explain why the same observations are very difficult to understand if we rigidly stick to Einstein's century-old theory of gravity and try to hold galaxies together using dark matter. I will use evidence from the rotation curves of galaxies, the properties of their central bars, and the distribution of their satellites in thin planes. You can find out more about his work here: <https://theconversation.com/dark-matter-our-review-suggests-its-time-to-ditch-it-in-favour-of-a-new-theory-of-gravity-186344>

All are cordially invited to attend the seminar.