

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE

2A & 2B, Raja S.C. Mullick Road, Jadavpur, Kolkata-700032, India

Seminar Notice

Title:	Some aspects of reconstruction of late-time cosmological models
Speaker:	Ankan Mukherjee
Date:	February 07, 2020
Time:	14:30 Hours
Venue:	Physics Seminar Room (C-406), 3rd Floor, Centenary Building, IACS
Abstract:	Some aspects to reconstruct the late-time cosmological models will be discussed in the presentation. The basic emphasis will be on the kinematic approaches to the reconstruction of late-time dynamics of the universe. A kinematic reconstruction of late-time cosmic evolution using a Taylor series expansion of the Hubble parameter will be discussed. The cosmological jerk parameter and the statefinder diagnostic, which are efficient to break the degeneracy in the dark energy models, would also be emphasized in this context. Further, a reconstruction of interacting dark energy model where the interaction rate depends on both the density and pressure of the dark energy component will be focused. This type of interacting dark energy models are in well agreement with cosmological observations and also can alleviate the problem of large scale instability of interacting dark energy. Finally, some observational disagreements of cosmological constant model of dark energy and ways to look for the possible solutions would be mentioned in brief.

All are cordially invited to attend the seminar