

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE
2A&B, Raja S.C. Mullick Road, Jadavpur, Kolkata-700032, India

Seminar Notice

Org. by

School of Physical Sciences

Title:	Rapid flavor conversions of supernova neutrinos
Speaker:	Manibrata Sen, Department of Theoretical Physics, T.I.F.R., Mumbai
Date:	August 29, 2018 (Wednesday)
Time:	3:30 p.m.
Venue:	Physics Seminar Room (C406), 3rd Floor, Centenary Building, IACS
Abstract:	Neutrino flavor conversions are known to play a very important role in core-collapse supernova explosions. Inside a supernova, neutrino density is so large that neutrino-neutrino interactions take place, giving rise to "collective oscillations" occurring with a rate much larger than the usual MSW flavor conversions. In this talk, I would like to discuss some of the interesting aspects of these rapid flavor conversions, and the impact they can have on supernova explosions and nucleosynthesis. Finally, I will briefly touch upon the effects of non-standard physics on supernova neutrino flavor conversions.

All are cordially invited to attend the seminar