

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE

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

India

Seminar Notice

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School of Physical Sciences

Title:	Non-equilibrium physics for small quantum systems:Transport and fluctuations in the non-Markovian regime
Speaker:	Bijay Kumar Agarwalla, IISER, Pune
Date:	December 4, 2018 (Tuesday)
Time:	2:30 p.m.
Venue:	Physics Seminar Room - C406,3rd Floor, Centenary Building, IACS
Abstract:	In the first of part of my talk, I will give a brief overview of quantum transport including universal fluctuation relations and recently discovered thermodynamic uncertainty relation. I will talk about under what conditions such uncertainty relations can be violated? In the second part, I will talk about experimentally emulating quantum non-Markovian dynamics and how to protect coherence in presence of information back-flow. References: [1] B. K. Agarwalla, D. Segal, Phys. Rev. B 98, 155438 (2018) [2] S. Saryal, H. Friedmann, D. Segal, B. K. Agarwalla, Under preparation [3] D. Khurana, B. K. Agarwalla, T S Mahesh, arXiv: 1805.10772

All are cordially invited to attend the seminar