



ICTS

INTERNATIONAL  
CENTRE *for*  
THEORETICAL  
SCIENCES

TATA INSTITUTE OF FUNDAMENTAL RESEARCH

## **ICTS Colloquium**

Title : The Asymmetric Simple Exclusion Process, a paradigm for non-equilibrium physics

Speaker : Kirone Mallick, Institut de Physique Théorique, France

Date : Monday, February 4, 2019

Time : 3:30 PM

Venue : Emmy Noether Seminar Room, ICTS Campus, Bangalore

Abstract : The asymmetric simple exclusion process is a minimal model of interacting particles, that appears in many realistic descriptions of low-dimensional transport with constraints. The exact solutions obtained for this system have lead us to a better understanding of non-equilibrium behaviour. The aim of this colloquium is to review some representative results about this model, describe the methods involved and present some.