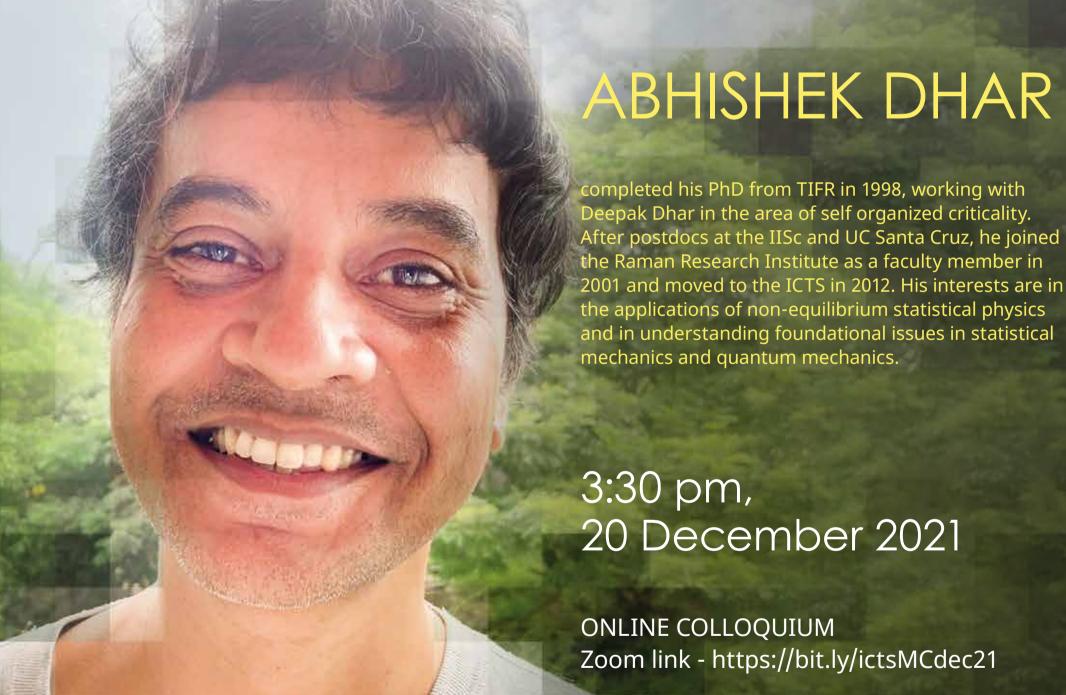
## ICTS MONTHLY COLLOQUIUM

## Connections between microscopic and macroscopic laws

It is common to describe physical systems using two different approaches – the microscopic one based on writing equations of motion for the constituent atoms (Newton's equations for the classical system) and the macroscopic one based on hydrodynamic equations for coarse-grained observables. Restricting mostly to the case of one-dimensions, I will discuss the connections between these two approaches. In particular, the talk will focus on macroscopic laws such as Fourier's law of heat conduction, fluctuating hydrodynamics and the Navier Stokes equations.



Meeting ID : 896 9688 6826

Passcode : 202021



TATA INSTITUTE OF FUNDAMENTAL RESEARCH