

Seminar

Hydrodynamics and Fluctuations in non-equilibrium statistical physics

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Fluctuating hydrodynamic theories have emerged in recent years as a candidate for a generalised formalism for non-equilibrium statistical physics in a wide range of systems. In this talk, I will review this development and show that hydrodynamics can be usefully applied to the study of systems with driven tracers and systems with long-ranged interactions. I will show how the resulting equations are solved to determine various non-equilibrium properties, like the evolution of the position of a tagged particle.

Tuesday, Aug 1st 2023

4:00 PM (Tea/Coffee at 03:45 PM)

Auditorium, TIFR-H