

Seminar

Oscillating states in periodically driven Langevin systems

Sreedhar Dutta

IISER Thiruvananthapuram

Periodically driven macroscopic systems can exist in non-equilibrium states referred to as oscillating states that are stable and exhibit periodic time-dependent behaviour. A prototypical example of this class of non-equilibrium systems is an underdamped Brownian particle subjected to Langevin dynamics. The periodic drive in this Langevin system can be exactly solved even when anharmonically perturbed due to the presence of an underlying symmetry. I will discuss what this symmetry is and how it can be exploited to determine the oscillating states.

Wednesday, Feb 9th 2022

04:00 PM

Seminar Hall, TIFR-H