

Seminar

Active Matter: fundamentals, non-mutual interactions and anomalous hydrodynamics

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I will review the general construction of the stochastic dynamics of active systems, and discuss entropy production with emphasis on the role of the assigned time-reversal signature of dynamical variables. Next, I will talk about the striking consequences of the non-mutual nature of interactions in active matter. Finally, I will show that aligned active suspensions have superdiffusive dynamics and offer a purely hydrodynamic route to phase separation.

Wednesday, Jan 8th 2020

4:00 PM (Tea/Coffee at 3:30 PM)

Auditorium, TIFR-H