



Survey No. 36/P, Gopanpally Village, Serilingampally, Ranga Reddy Dist., Hyderabad - 500 046

Seminar

Some consequences of phenotypic heterogeneity in living active matter

Philip Pearce

UCL, London

In this talk I will discuss how phenotypic heterogeneity affects emergent pattern formation in living active matter with chemical communication between cells. I genetic show regulation of chemical will how communication affects motility-induced separation in cell populations. Furthermore, I will show how chemotaxis along self-generated signal gradients affects cell populations undergoing 3D morphogenesis. In general, I will show how the emergent dynamics of multicellular communities are qualitatively different in comparison to the dynamics of isolated or interacting cells.

Tuesday, Dec 12th 2023 4:00 PM (Tea / Coffee 3.45 PM) Auditorium, TIFR-H