

Students' Annual Seminar

Energy Spectra in 2-d buoyancy driven bubbly flows

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Bubble laden flows appear in a variety of natural and industrial processes. A swarm of bubbles driven by buoyancy forms complex flow patterns that resemble turbulence. We study the statistical properties of such flows. We find that at low Reynolds number the flow can be described by the balance of buoyancy and viscous forces. On the other hand, at high Reynolds number, we observe a negative energy flux indicative of an inverse cascade similar to two-dimensional turbulence.

Friday, Mar 9th 2018

11:30 AM (Tea/Coffee at 11:00 AM)

Seminar Hall, TIFR-H