

MONDAY

# COLLOQUIUM

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## Physics of complex fluids: Swimming microorganisms and bubbles

Prasad Perlekar (TIFR, Hyderabad)

23 Sep 2024 (Monday) | 16:00 Hrs (Tea / Coffee 15:45 Hrs) | Venue: TIFRH Auditorium

Fluid flows are ubiquitous and are often laden with either living or dead entities. Examples include water droplets in clouds, plankton in oceans, and planetesimal formation. We will provide an overview of the progress made by us towards understanding some of these phenomena using the tools borrowed from nonequilibrium physics and the statistical theory of turbulence. In particular, we will highlight how inertia plays a crucial role in altering the transport properties of these flows.