

## **Seminar**

### **Inertial swimmer suspensions: Instability and turbulence**

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Fluids whose constituents are motile display spectacular spontaneous flows that resemble turbulence. But what causes a suspension of flow-aligned swimmers to become unstable? In this talk, I will discuss a novel instability that can answer the above question for the suspension of mesoscale swimmers like zooplankton, where viscous and inertial forces are comparable. This instability leads to the emergence of concentration-wave turbulence. I will discuss some of the statistical features of this turbulence and highlight the role of inertia in the instability.

***Wednesday, Oct 16<sup>th</sup> 2024***

***16:00 Hrs (Tea / Coffee 15:45 Hrs)***

***Auditorium, TIFR-H***