



ICTS

INTERNATIONAL
CENTRE *for*
THEORETICAL
SCIENCES

TATA INSTITUTE OF FUNDAMENTAL RESEARCH

ICTS Colloquium

Title : Flexibility in fluid equations: a view towards turbulence

Speaker : Vikramaditya Giri (University of Zurich)

Date : Tuesday, 29 September 2026

Time : 02:00 PM (IST)

Abstract : Rough (non-differentiable) flows are abundant in turbulent phenomena in nature. Can we study them mathematically? Are they solutions to the well-respected equations in fluid dynamics? Do these equations even support such solutions with the phenomena we observe in nature? In this talk, we'll discuss these questions from the point of view of convex integration: a technique for rigorously constructing (weak) solutions to certain non-linear PDEs.
Based on joint works with Hyunju Kwon, Matthew Novack and Razvan-Octavian Radu.

Venue : Madhava Lecture Hall

Zoom Meeting: <https://icts-res-in.zoom.us/j/93627770536?pwd=KFQ6gsGTA9ykMbGmgZLbaVTI0QcBoV.1>

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