

Applied mathematics symposium: Instability and flow transition

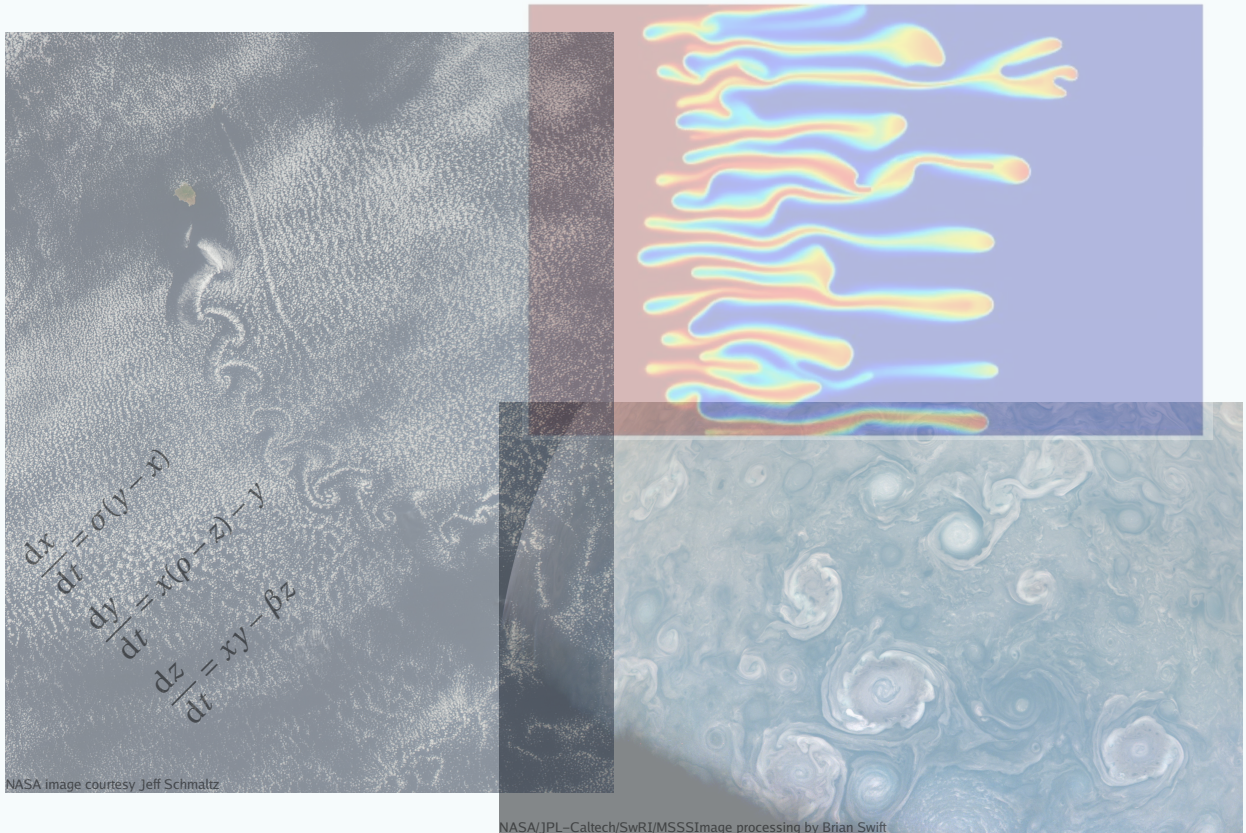


भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

Where: Online ([Meeting link](#))

Date: November 11, 2022

Time: 14:00 to 20:10 IST



Organisers:

Vikas S. Krishnamurthy
IIT Hyderabad

Satyajit Pramanik
IIT Guwahati



Program



Abstracts are available on the meeting website at <https://people.iith.ac.in/vikas.sk/ams.html>

14:00–14:10 Welcome

14:10–15:10 Plenary talk by Professor Hendrik Kuhlmann (TU Vienna)
“Attractors for density–matched particles in steady incompressible three–dimensional flow”

15:10–15:35 Dr. Siddhartha Mukherjee (ICTS Bengaluru)

“Transition to universality and Lagrangian anomalies in active turbulence”

15:35–16:00 Dr. Gautam Kumar (IFCAI Tech, IFHE Hyderabad)

“Linear and Nonlinear thermosolutal instabilities in an inclined porous layer”

16:00–16:15 Break

16:15–16:50 Professor Morten Brøns (TU Denmark)

“Topological bifurcations in the transition from two single vortices to a pair and a single vortex in the periodic wake behind an oscillating cylinder”

16:50–17:25 Dr. Sanghasri Mukhopadhyay (VIT Vellore)

“Thin–film on structured packing”

17:25–17:45 Mr. Harvansh Dandelia (IIT Gandhinagar)

“Control of growth of perturbation in airfoil boundary layers”

17:45–18:20 Professor R. Usha (IIT Madras)

“Modeling of dynamics and stability of a thin film down an incline: a new perspective”

18:20–18:35 Break

18:35–19:10 Dr. Sukhendu Ghosh (IIT Jodhpur)

“Linear stability analysis of some complex flows”

19:10–19:30 Mr. Surya Narayan Maharana (IIT Ropar)

“Stability of a layered flow where a reaction induces viscosity stratification”

19:30–20:05 Dr. Duncan Hewitt (University College London)

“The impact of layering on vigorous convection in porous media”

20:05–20:10 Vote of thanks