



ICTS

INTERNATIONAL
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THEORETICAL
SCIENCES

TATA INSTITUTE OF FUNDAMENTAL RESEARCH

ICTS Seminar

- Title** : Atmospheric gravity waves: lateral propagation, overlapping waves, and training Machine Learning models
- Speaker** : Aditi Sheshadri (Stanford University, USA)
- Date** : Thursday, 22 October 2026
- Time** : 11:30 AM (IST)
- Abstract** : In this talk, I will establish the importance of lateral propagation of gravity waves in the context of setting stratospheric variability, such as the Quasi-Biennial Oscillation. I will introduce a toy model for overlapping idealized gravity waves to show that interference can bias estimates of momentum transport by these waves. I will also discuss some of the logistics of training machine learning models to "learn" the effects of these waves on the resolved flow.
- Venue** : Emmy Noether Seminar Room
ZoomMeeting: <https://icts-res-in.zoom.us/j/93595976447?pwd=985RvPNcUQKVbl8OXwM2HCW2zx9Fso.1>
Meeting ID: 935 9597 6447
Passcode: 618933