

TIFRH In-House Symposium, 2025

Day 1: Nov 3, 2025

Time	Name	Title
9:15 am	Welcome by organizing committee, MK	
Session I Chair: Aprotim Mazumder		
9:30 am	Anusha Shankar	Heterothermy in India: A comparative framework to understand how moths, birds, bats respond to variable environments
10.00 am	Chaitanya Kumar Suddapalli	The Hidden Colours of Light: Mid-Infrared Coherent Sources
10:30 am	Soumya Ghosh	Modelling CO ₂ activation on charged grain boundaries
11.00 am	Tea break	
Session II Chair: Karthik V Raman		
11:30 am	Aniruddha Panda	Fantastic Ions and Where to Find Them: Unveiling the Hidden Order of Lipid-Protein Clusters in Synaptic Transmission
12:00 pm	Prashant Kumar Singh	Plasma Photonics: Sculpting Liquid Matter with Intense Femtosecond Laser Pulses
12:30 pm	Kabir Ramola	Granular Elasticity and Tensor Electromagnetism
1:00 pm	Lunch Break (on your own)	
1:30 pm - 2:30 pm Poster session I		
Session III Chair: Monika Vig		
2:30 pm	Kanchan Garai	Building single molecule techniques to study biomolecular liquid-liquid phase separation
3:00 pm	Pranav R Shirhatti	Understanding the Dissociation Dynamics of CO ₂ on Copper Surfaces
3:30 pm	G Rajalakshmi	Weak Measurement Approaches for High-Sensitivity Optical Metrology
4:00 pm	Sahana Holla	Folding and Location Stories: Unveiling New Insights into Conserved Features of the 3D Genome
4.30 pm	High Tea	
4:30 pm - 7 pm Poster session II		

Talks will be held in the TIFRH Auditorium.

Poster sessions will take place in and around the 2nd-floor discussion area.

Day 2: Nov 4, 2025

Time	Name	Title
Session IV Chair: Saroj Kumar Nandi		
9.00 am	Sreenath K Manikandan	Testing the coherent state description of radiation fields
9:30 am	Aneesh Tazhe Veetil	Chemical and synthetic biology approaches for imaging and modulation of the brain
10.00 am	Harish N S Krishnamoorthy	Manipulating Light with 'Meta' Photonics - from reconfigurable optical devices to enhanced scintillators
10:30 am	Anukul Jana	Electrochromic Ring-Closing of Dithienylethene-Core for Boron- and Carbon-Centered Diradicaloids
11.00 am	Tea break	
11:00 am - 1:00 pm Poster session III		
1:00 pm	Lunch Break (on your own)	
Session V Chair: Vipin Agarwal		
2:00 pm	Kaustubh R Mote	Beyond Simply Spinning: CRAMPS methods to improve proton resolution under fast magic-angle spinning solid-state NMR
2:30 pm	Vishal Ranjan	Microwave Quantum memories with electron spins
3:00 pm	Ram Gopal	Light Matter Interaction with Intense Ultrashort Orbital Angular Momentum Beams: many a twist in the tale
3:30 pm	High Tea	
Session VI Chair: Prasad Perlekar		
4:15 pm	Ullas S Kolthur	Metabolic diseases & Aging: linking mechanisms to plasticity & memory for forward & reverse translation
4:45 pm	Ritesh Halдар	Light-responsive nanopores
5:15 pm	Darshan G Joshi	Interaction-induced topological phase in a 1d heterostructure
5:45 pm	Poster prizes, Concluding remarks	

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