








Poster design: Anusheela

Time	Agenda	Title of the Talk
	Session I: Chair: Shantam Yagnik, Anusha Shankar	
08:50 - 09:25	M. Krishnamurthy (Introduction + Talk)	Non-linear plasma dynamics for lower intensity high temperature plasmas
09:25 - 09:50	Monika Vig	Walking the Fine Line: Calcium Signaling in Immune Response, Self-Tolerance, and Autoimmunity
09:50 - 10:15	T N Narayanan	Engineering Atomic Layers: 2D Carbon to Transition Metal Dichalcogenides
10:15 - 10:40	Pabitra K. Nayak	Unlocking the potential of soft semiconductors through precision doping
10:40 - 11:05	Manish Jaiswal	The Shape-Shifting Mitochondrion: Dynamics, Remodeling and Cellular Organization
11:05 - 11:25	Tea	
	Session II: Chair: Dhrriti Hirra, Sreenath Manikandan	
11:30 - 11:55	Smarajit Karmakar	Tunable Yielding and Emergent Rheology in Amorphous Solids with Active Particle Doping
11:55 - 12:20	Subodh Shenoy	Tunnelling modes of macroscopic condensates between double-well traps
12:20 - 12:45	Satyanarayana Bheesette	R&D activities of X-Ray Imaging Detector Laboratory at the Petawatt Laser Facility
12:45 - 13:10	Prasad Perlekar	Learning to reconstruct flows
13:10 - 14:30	Lunch	
	Session III: Chair: Shalin Jose, Vishal Ranjan	
14:40 - 15:05	Kalyaneswar Mandal	Mirror-Image Peptide Chemistry to Target Cross-alpha Amyloid and Disperse MRSA Biofilms
15:05 - 15:30	Karthik V. Raman	TIFR Quantum Foundry
15:30 - 15:55	Pramodh Vallurupalli	Two-dimensional NMR Spectrum from a Single Pulse Experiment
15:55 - 16:20	Saroj K. Nandi	Aging dynamics in active and biological systems
16:20 - 16:45	Deepa S	Biophysical Characterization of Proteins
16:45 - 17:00	Group Photograph	
17:00 - 17:25	Tea	
17:25 - 19:25	Poster Session	
19:00 onwards	Vada Pav	

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in-house symposium

SCHEDULE: DAY 1

OCTOBER 29, 2026 (Thurs)

TALK: 'Homi J. Bhabha: The Man, the Aesthete' by Bakhtiar K. Dadabhoy

OCT 30, Friday (4 PM)

Join via Zoom:
https://tifrh-res-in.zoom.us/j/92235680643?pwd=HdyWNmgzwUbAB3lneBzOOsn7yTG3pJ.1

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Time	Agenda	Title of the Talk
	Session IV: Chair: Pooja Kesarwani, Harish N. S. Krishnamoorthy	
09:00 - 09:25	Mustansir Barma	Scaling in Clustering : MIPS and Real-space Condensates
09:25 - 09:50	Tamal Das	The nucleus as a mechanical checkpoint of cellular fitness in epithelial tissues
09:50 - 10:15	Jadab Majhi	Stereoselective Synthesis through Photochemical and Biocatalytic Strategies
10:15 - 10:40	Vipin Agarwal	Development of 14N solid-state NMR: Application in Proteins and 3D 14N-13C-1H Spectroscopy at Natural 13C Abundance
10:40 - 11:05	Raghunathan Ramakrishnan	Symmetry as an Internal Benchmark for Conformational Sampling in the Calculation of 13C NMR Parameters
11:05 - 11:25	Tea	
	Session V: Chair: Resmi Bera, Harish N. S. Krishnamoorthy	
11:30 - 11:55	Subhasish Dutta Gupta	Signatures of nonreciprocity in reflection on spiral spectra
11:55 - 12:20	Sreejith R	Mechanistic Insights into AF6-PDZ Folding: Regulation via Dynamic Monomer-Dimer Equilibrium and Ligand Binding
12:20 - 12:45	Mrinal Srivastava	Replication under stress
13:00 - 14:00	Lunch	
14:00 - 16:00	Poster Session	
15:30 - 16:00	Tea	
16:00 - 17:00	Bakhtiar Dadabhoy (Streamed across all TIFR Centres)	Homi J. Bhabha: The Man, the Aesthete
17:00 - 17:30	Prizes and Closing	
17:30 onwards	High Tea	

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SCHEDULE: DAY 2
OCTOBER 30, 2026 (Fri)

TALK: 'Homi J. Bhabha: The Man, the Aesthete' by Bakhtiar K. Dadabhoy

OCT 30, Friday (4 PM)

Join via Zoom:
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Day: 29th October Thursday (17:25-19:25)		
Poster No.	**Name of the Presenter**	**Title of the Poster**
1	Keshav Srinivasan	Transcriptomic remodeling is limited during torpor entry in a temperate hummingbird's brain
2	Narjis Fatima, Pramit K Datta and Vishwam S Ghelani, Sahana Holla	Unveiling new insights into conserved features of 3D genome
3	Payal Agarwal	Polyphosphate-DYRK1A crosstalk: a novel regulatory axis in blood clotting
4	Shyam Bhardawaj D M	Cofactor-Driven Assembly of Homogenous Amyloid Fibrils from the Wild-type p53 Core Domain
5	SK Yasir Hosen	Life without polyphosphates
6	Julia Benny	What happens during a pause: How light and temperature remodel insect life history
7	Rejoy Dey	Exploring Base Excision Repair in regulating transcription in the context of differentiation and development
8	Aaheli Shee Burman	Investigating Early Cues Governing Apico-Basal Polarity During Non-Neural Ectoderm Development
9	Abhikarsh Gupta	Investigating the role of Syntaxin11 in immunodeficiency, hyperinflammation and breakdown of peripheral immune tolerance.
10	Padmashree D	Intermediate Filament Remodeling as a Marker and Mechanism of Epithelial Fitness
11	Resmi Bera	Regulation of CRAC channel activation by Unc13D (Munc13-4)
12	Waliya Fatima Usmani	A phosphoinositide in its own bilayer licenses the R-SNARE, VAMP7 for membrane fusion
13	Sk Imraj Uddin	Thienylene Bridged Diboron Centered Diradicaloids and N-m-Terphenyl Substituted CAAC Chemistry

14	Vasu Malhotra	Push–Pull Alkene-Derived Diradicaloids and Tetraradicaloids
15	Sumyia Arif	Peptide-based chimaeras for regulating an over-activated complement system
16	Adabala Venkata Snehith	Engineering Dopant-Chalcogen Interactions for Permanent Valley Polarisation
17	Kirthi Joshi	Quantifying Site-Specific 14N Quadrupolar Couplings Parameter in SH3 domain of α-spectrin via 1H-13C-14N Correlation spectroscopy.
18	Srita Dutta	Conformation of the active site lysine residue is a key determinant of Deoxyribose Phosphate Aldolase (DERA) stereoselectivity
19	Arun Kumar Manna	Metal-organic Framework Pore Space Modification with Aliphatic Positional Isomers
20	Purabi Sarkar	Hierarchically porous MOF-on-MOF thin films for size-selective photocatalysis
21	Umesh Lakshmaiah	R&D activities of X-Ray Imaging Detector Laboratory at the Petawatt Laser Facility of TIFR Hyderabad
22	Roshan Shaik	Study of Electric field induced Broadening of EPR lines
23	Sourabh Singh	Exploring Source-Based Quantization of Longitudinal Fields: From Coulomb Quantization to Spontaneous Emission
24	Sreehari Rajendran	Phonon-bottlenecked spin relaxation of Er3+ doped calcium tungstate at millikelvin temperatures
25	Rameshwar Mondal	Low-Threshold Femtosecond PPLN Optical Parametric Oscillator with Broad Mid-Infrared Tunability
26	Sourav Dash	Passive non-hermitian metasurfaces using phase change materials
27	Meera V	Low Loss Phase Change Materials for Reconfigurable Photonics
28	Sutirtha Mukherjee	Tight constraint on local dark matter density from joint analysis of rotation curve and vertical kinematics of the Milky Way galaxy

29	Angad Singh	Condensates in the Generalized Takayasu Model
30	Shilpa Prakash	Critical behavior and crossover scaling in the light-heavy model
31	Jasbir Singh	Effects of Confinement on Three-Dimensional Active Turbulence
32	Lakshmi N. Govind	Non-linear thermal hall conductivity in a topological quantum paramagnet
33	Shachidev Mahato	From Jamming to Glasses: Hard-Core Lattice Gases in Two Dimensions
34	Padmanabha Bose	Dynamics of roads in soft particle systems
35	Rashmiranjan Bhutia	Traveling waves, phase separation and pattern formation in the active stepping stone model
36	Som Shekhar Sharma	Exchange coupled Laser Patternable Metal oxide lateral and Vertical heterostructures
37	Ananya Rout	Exploring Resonant Metasurfaces for Extreme Light-Matter Interaction
Poster No.	**Name of the Presenter**	**Title of the Poster**
October Friday (14:00-16:00)		
38	Soumallya Sen, Priya Thakur	When Replication Hits a Roadblock: Decoding DPC Repair and Checkpoint Signalling
39	Harsha Sharma	Exploring the role of PolyP in Drosophila innate immunity
40	Zeba Rani	From Cytoplasmic Actin Filaments to Nuclear DNA Double-Strand Breaks
41	Anushka Shitut	Membrane fusion model across proteins

42	Srishti Priya	Metabolic Control of Post-transcriptional Gene Regulation through Intron Retention
43	Ashvanth Sridhar	Organelle Dynamics in Early Murine Hair Placode Morphogenesis
44	G V S Devakinandan	ER structure and function as a key component of sensory neuron development, diversification and survival
45	Shantam Yagnik	Mechanics-dependent Global Nuclear Eviction and Site-Specific Recruitment of YAP Regulates DNA Damage Responses
46	Aravind H	Inverted intramitochondrial vesicles (MDiVs) enable mitochondrial remodeling beyond canonical fission–fusion
47	Vivek Kumar	Regulation of mitochondrial shape during development.
48	Atharva Rahul Yande	Single-particle imaging approaches to probe Orai channel mobility, stoichiometry, and dynamics in shaping T cell calcium signaling
49	Pannagasri G	Blinding lights: Light as a pollutant and listening in on its effects on avian activity
50	Atreyee Majumdar, Amrita Bera, Elamathi Selvan	Azaphenalenes Demystified
51	Elka Bhattacharya	Fermions on a 1D lattice: localized source and sink with dephasing and waiting time distribution
52	Shubhangi Arora	Beyond ^{15}N: ^{1}H-Detected ^{14}N-^{13}C-^{1}H Correlation Spectroscopy at Natural Isotopic Abundance
53	Sneha Panja	Integrating Machine Learning and Molecular Dynamics to decode Mutation effects in Directed Evolution variants
54	Oindrila Adhikari	Transition-Metal Catalyzed Arylation of Carbones: Convenient Access to Carbon-Centered Electron-Deficient Diradicaloids.
55	Arpita Sen	Computational studies on 14N NMR parameters of peptides: chemical shifts and quadrupolar couplings
56	Bijoy chetry	Reactivities of Carbodicarbene with Heavier Chalcogens

57	RASHMI SUNIL JHA	Bio-inspired approaches to enhancing alkaline HER
58	Santu Nath	Activity-Induced Structural and Dynamical Heterogeneity in Colloidal Gels
59	Anwesha Raychaudhuri	Multi-substrate binding primes P450cam for camphor hydroxylation
60	Satyam Pandey	Scaling the glassy dynamics in confluent cellular model
61	Tamanna	Self- Organised Monodisperse Droplet Formation in a Liquid Jet under Controlled Flow Conditions
62	Soni Dayashankar Prajapati	Evolution and Coarsening Dynamics of Motility-Induced Phase Separation in ABPs
63	Chandankumar Rajaram Hegde	Towards a Chip-Scale Atomic Magnetometer: Magnetic Field Sensing with a MEMS Vapor Cell
64	Kannal Amudhu K	Inverse designed non-volatile phase change varifocal metalens at the edge of the visible spectrum
65	Arpan De	Contact Engineering in Monolayer MoS2 via Substitutional Doping for Next Generation Ambipolar 2D Electronics.
66	Dibakar Pal	Correlated Two-Photon Absorption in Rhodamine B
67	Anuj Kumar Singh	Amorphous metamaterial with closely packed network glass formers using colloidal patchy particles
68	Arpan Chatterjee	Continuously varying exponents in the distribution of waiting times in the symmetric exclusion process on a percolation cluster
69	Mansi Tarani	Comparative Study of NMOR and Stokes Polarimetry for Optical Detection of Zero- to Ultra-Low-Field NMR
70	Deblina Samanta	Photonic spin-Hall effect as a probe for time-reversal-symmetry broken band topological phases
71	Arnab Mandal	The Universal Role of Fragility on the Yielding Transition of Active Glass under Oscillatory

72	Kiran Mandal	Investigating quantum fluctuations of spin excitations coupled to cavity photon.
73	Subharthi Paul	J1 − J2 − δ model on a square lattice: From Altermagnet to Columnar antiferromagnet via quantum disordered phase
74	Bhanu Chauhan	Record-Power Picosecond Optical Parametric Oscillator Delivering >240 mW at 6.2 µm Through Thermal Control
75	Prithvi N. Bhat	Non-classical arrows of time for continuous quantum measurements
76	Hridey Narula	Gappy Reconstruction of Bubbly Flows by Guided Diffusion Models
77	Sayan Sircar	Probing the Quantum Structure of Radiation Fields with Quantum Jump Timing Statistics