



Frontiers in Non Equilibrium Physics

17 - 20 January

Venue :Ramanujan Auditorium

17 January 2023	
09:00-09:30	Registration
Session 1	
09:30-10:15	Abhishek Dhar Title: Entropy growth during free expansion of an ideal gas
10:15-11:00	Jeremie Bec Title: Relative dispersion of fluid particles in turbulent flow: scaling and irreversibility
11:00-11:30	<i>Tea/Coffee</i>
Session 2	
11:30-12:15	Sayantan Majumdar Title: Origin of two distinct stress relaxation regimes in shear jammed dense suspensions
12:15-13:00	Shraddha Mishra Title: Effective single component description of steady state structures of passive particles in an active bath
13:00-14:30	<i>Lunch</i>
Session 3	
14:30-15:15	Takahiro Hatano Title: Precursory acceleration before breakdown
15:15-16:00	<i>Flash talks by poster contributors</i>
16:00-16:30	<i>Tea/Coffee</i>
Session 4	
16:30-16:50	Ion Santra Title: Activity Driven Transport
16:50-17:10	Yuval Scher Title: Unified Approach to Gated Reactions
17:10-17:30	Subashri V Title: Exact calculation of the probabilities of rare events in cluster-cluster aggregation
17:30-19:00	Poster Session + Tea/Coffee



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Session 1	
09:30-10:15	Ayan Banerjee Title: Unravelling 'method' in randomness: analysing trajectories and fluctuations of single colloidal microparticles optically trapped in nonequilibrium steady states
10:15-11:00	Samriddhi Sankar Ray Title: Scalings in Active Turbulence: An Eulerian and Lagrangian perspective
11:00-11:30	<i>Tea/Coffee</i>
Session 2	
11:30-12:15	Rajesh Ganapathy Title: A density-independent glass transition in designer active granular matter
12:15-13:00	Peter Sollich Title: Mean field theory of yielding under oscillatory shear
13:00-14:30	<i>Lunch</i>
Session 3	
14:30-15:15	Jae Sung Lee Title: Thermodynamic Trade-off relations
15:15-16:00	Madan Rao Title: Elastic finite time singularities in an active medium : emergence of stress fibres and fragility
16:00-16:30	<i>Tea/Coffee</i>
Session 4	
16:30-16:50	Suman Dutta Title: Liquid-state properties and jamming dynamics of persistent athermal active matter
16:50-17:10	R. Saravanan Title: Surprisal Analysis of Fokker-Planck Evolution in the Phase-Space
17:10-17:30	Ofek L. Bonomo Title: Loss of Percolation Transition in the Presence of Simple Tracer-Media Interactions
17:30-19:00	Poster Session + Tea/Coffee
19:00-	Conference dinner



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19 January 2023	
Session 1	
09:30-10:15	G V Pavan Kumar Title: Hot Brownian Colloids in Structured Optical Tweezers
10:15-11:00	Smarajit Karmakar Title: Dramatic growth of dynamic and static correlation in active glasses and their significance on the physics of glass transition
11:00-11:30	<i>Tea/Coffee</i>
Session 2	
11:30-11:50	Tanmoy Chakraborty Title: Anomalous collective diffusion of interacting self-propelled particles
11:50-12:10	Subhodeep Dey Title: Enhanced short time peak in Four-point Dynamic Susceptibility of Dense Active Glass forming liquid
12:10-12:30	Jitendra Kethepalli Title: Thermal state and thermalization of hard rods in integrability breaking confinement.
12:30-12:50	Umang Dattani Title: Cavitation instabilities in amorphous solids
13:00-14:30	<i>Lunch</i>
Session 3	
14:30-15:15	Ran Ni (Online) Title: Non-equilibrium hyperuniform fluids
15:15-16:00	Ralf Metzler (Online) Title: Confined anomalous transport: non-Boltzmannians
16:00-16:30	<i>Tea/Coffee</i>
Session 4	
16:30-17:15	Vijay Chikkadi Title: Elasto-plastic modelling of sheared colloidal glasses using Eshelby inclusions
17:30-19:00	Poster Session + Tea/Coffee



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20 January 2023	
Session 1	
09:30-09:50	Shuvojit Paul Title: Work fluctuations for a Brownian harmonic oscillator driven by an "active-like" viscoelastic bath
09:50-10:10	Priyo Shankar Pal Title: First passage time in stochastic resetting process with finite time return
10:15-11:00	Etienne Fodor Title: Pulsating active matter
11:00-11:30	<i>Tea/Coffee</i>
Session 2	
11:30-11:50	Apurba Biswas Title: Mpemba effect in non-equilibrium systems
11:50-12:10	Vinay Vaibhav Title: Controlled mechanical response in spatially inhomogeneous glasses
12:10-12:30	Subhadeep Dasgupta Title: Obtaining Permeabilities in Dense Networks: An Efficient Multiscale Approach
12:30-13:15	Shlomi Reuveni (Online) Title: Queues with Service Resetting
13:15-14:30	<i>Concluding remarks and Lunch</i>