



TIFR Centre for Interdisciplinary Sciences, Narsingi, Hyderabad 500075

TCIS Symposium August 6-7, 2012

August 6, 2012

Opening remarks: 9:00 - 9:10 AM Sriram Ramaswamy

9:10 am - 9:40 am-- Debabrata Sinha, TCIS, TIFR Hyderabad
Superfluidity along Grain Boundaries and Cell Walls in the
Context of Supersolids

9:40 am- 10:10 am-- Chanda Mondal, TCIS, TIFR Hyderabad
Single file diffusion and phase ordering of colloids

10:10 am- 10:40 am-- Shiladitya Sengupta, JNCASR
The Adam-Gibbs and Stokes-Einstein relations in glass forming
liquids in 2, 3 and 4 dimensions.

10:40 am - 11:10 am -- Coffee break

11:10 am- 11:30 am -- Sriram Ramaswamy, TCIS, TIFR Hyderabad
The coarsening of amorphous order

11:30 am- 11:50 am -- Harsh Soni, IISc
Flocking in granular matter

11:50 am- 12:10 pm-- Ananyo Maitra, IISc
Nuclear spin

12:10 pm- 12:30 pm-- Ranjan Modak, IISc
How large isolated quantum systems thermalize and small ones don't

12:30 pm- 1:00 pm-- Shubha Tiwari, WNEU
Ideas on Education and Outreach at TCIS

1:00 pm- 2:00 pm-- Lunch

2:00 pm- 3:30 pm-- POSTERS

1. Juan Angel Tendero Ventanas, TCIS, TIFR H:
Vortex methods versus grid methods for studying flows numerically
2. Charudatt Kaushik, TCIS, TIFR H:
Some studies in binary fluid phase separation.
3. Vinutha H A, TCIS, TIFR H:
Jamming of spheres with attractive interactions
4. Anshul D S Parmar, TCIS, TIFR H:
Lattice model for water with hydrogen bond cooperativity
5. Prasanna, IIT H:
Multiphase lattice Boltzmann simulations of buoyancy-induced flow of two immiscible fluids with different viscosities
6. Sourav Halder, CCMB:
Differential Effect of Cholesterol and its Biosynthetic Precursors on Membrane Dipole Potential
7. R. Sathyavathi, UOH:
Raman Spectroscopy for Bio medical applications
8. Saswati Ganguly, TCIS, TIFR H :
Non affine displacements in a Harmonic net

3:30 pm- 3:40 pm-- coffee

3:40 pm- 4:00 pm-- Sudipto Muhuri, UOB, Barcelona
Intrinsic Oscillations in Motor Microtubule Systems

4:00 pm- 4:30 pm-- Narayanan Menon, UMass, Amhearst
Emergence of complex shapes in thin sheets

4:30 pm- 5:00 pm-- Shankar Ghosh, TCIS, TIFR Hyderabad
Amorphous to amorphous transition in particle rafts

5:00 pm - 5:30 pm-- Srikanth Sastry, TCIS, TIFR Hyderabad
Jamming and void space in sphere packings

TCIS SYMPOSIUM

August 7, 2012

9:00 am - 9:30 am -- V Chandrashekhar, TCIS, TIFR Hyderabad
Molecules to Materials: A synthetic chemist's perspective

9:30 am - 10:00 am-- Kumara Swamy K.C., UOH
Probing Allenyl- and Alkynyl-Phosphonate Chemistry

10:00 am - 10:30 am -- Amitabha Chattoadhyay, CCMB
Current Excitements and Challenges in Membrane Biology

10:30 am - 11:00 am -- Coffee break

11:00 am - 11:30 am-- Kirti Sahu, IITH
Double-diffusive instabilities in viscosity-stratified flows

11:30 am- 11:50 am-- Mamta Jotkar, TCIS, TIFR Hyderabad
On global instabilities in variable aspect ratio channel flows

11:50 am- 12:10 pm -- Croor Singh, TCIS, TIFR Hyderabad
Dynamics of inertial particles in a vortical flow: towards a toy model for a rain cloud

12:10 pm - 12:30 pm-- Sharath Jose, TCIS, TIFR Hyderabad
Evolution of modal and non-modal disturbances in stratified shear flows

12:30 pm - 2:00 pm-- Lunch

2:00 pm - 2:30 pm-- K P N Murthy, UOH
Work Fluctuations and the Second Law of Thermodynamics

2:30 pm - 3:00 pm-- Debashish Chaudhury, IIT H
Emergent structure of bacterial chromosome

3.00 pm – 3.30 pm – K.V.R. Chary, TIFR, Mumbai
Intrinsically Unstructured Proteins

3:30 pm - 3:45 pm-- Closing

3:45 pm - 4:15 pm-- Coffee
