



TIFR Centre for Interdisciplinary Sciences, Narsingi, Hyderabad 500075

One-day Meeting on Soft and Biological Matter

28 November 2012

Programme

0855 - 0900 - Welcome and opening remarks (Sriram Ramaswamy)

Session I: Srikanth Sastry, TCIS, Chair

0900 - 0925 Mike Sheetz, NUS, Singapore Rigidity
Sensing by Local Sarcomere Contractions

0925 - 0950 Maithreyi Narasimha, TIFR, Mumbai
Local non-autonomous control of myosin dynamics: implications for spatial patterning

0950 - 1015 P K Madhu, TIFR, Mumbai
Probing amyloid fibrils at a molecular level with solid-state nuclear magnetic resonance

1015 - 1040 Sriram Ramaswamy, TCIS, TIFR, Hyderabad
Designing chemotactic colloids

1040 - 1110: coffee break

Session II: Amit Chattopadhyay, CCMB, Chair

1110 - 1135 Paul Matsudaira, NUS, Singapore
The dynamics of interfacial water at the nano-scale

1135 - 1200 P P Rajeev, TCIS, TIFR, Hyderabad Transient
nanoplasmonics inside transparent matter

1200 - 1225 Surajit Sengupta, TCIS, TIFR Hyderabad Activity-induced
segregation: chromosome positioning in the nucleus

1225 - 1250 Ramakrishna Ramaswamy, University of Hyderabad
Correlations in Genomic Sequences

1250 - 1430: Lunch

Session III: Rajaram Nityananda, NCRA, TIFR, Chair

1435 - 1500 Linda Kenney, NUS, Singapore
Environmental sensing by bacteria

1500 - 1525 Krishnaveni Mishra, University of Hyderabad
Sumoylation and subnuclear compartmentalization of proteins

1525 - 1550 Surajit Dhara, University of Hyderabad
Temperature driven discontinuous surface anchoring transition in liquid crystals

1550 - 1620: coffee break

Session IV: KPN Murthy, Univ of Hyderabad, Chair

1620 - 1645 Smarajit Karmakar, TCIS, TIFR, Hyderabad
Elasto-plasticity of amorphous solids

1645 - 1710 Rama Govindarajan, TCIS, TIFR, Hyderabad
Vortices in density gradients

1710 - 1735 G V Shivashankar, NUS, Singapore
Nuclear mechanics and genome regulation

1735 – 1800 Srikanth Sastry, TCIS, Hyderabad
Mechanical Deformation of Amorphous Solids

1800 HIGH TEA

Date: Wednesday, November 28th 2012

Time: 0855 to 1830

Venue: Conference Hall, TCIS

All are cordially invited