

SCHEDULE: STATPHYS – KOLKATA VIII

MONDAY (01.12.2014)

09:15 – 09:30 AM - OPENING ADDRESS BY THE DIRECTOR, SNBNCBS

09:30 – 09:45 AM - FELICITATIONS TO PROF. HIDETOSHI NISHIMORI

PLENARY SESSION	SPEAKER	TITLE OF THE TALK
09:45 - 10:30 AM	HIDETOSHI NISHIMORI	Relation of classical nonequilibrium dynamics and quantum annealing
10:30 - 11:15 AM	CHRISTIAN MAES	Frenetic aspects of second order response

PHOTO SESSION AND TEA BREAK

SESSION	SPEAKER	TITLE OF THE TALK
12:00 - 12:30 PM	TRIDIB SADHU	Large deviation in single-file diffusion
12:30 - 01:00 PM	SOURABH LAHIRI	Heat and entropy fluctuation theorems for under-damped Langevin systems

LUNCH AND POSTER SESSION

SESSION	SPEAKER	TITLE OF THE TALK
03:30 - 04:00 PM	SATYAJIT BANERJEE	Commensurate – incommensurate domains and driving domain walls inside the vortex state in a nanopatterned superconductor.
04:00 - 04:30 PM	MUKTISH ACHARYYA	Patterns, dynamics and phase transitions in Ising ferromagnet driven by propagating magnetic field wave

04:30 - 05:00 PM	MASAYUKI OHZEKI	Mathematical understanding of violation of detailed balance and its application to Langevin dynamics
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HIGH TEA

TUESDAY (02.12.2014)

PLENARY SESSION	SPEAKER	TITLE OF THE TALK
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09:30 - 10:15 AM	YARIV KAFRI	Singular large deviation functionals
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10:15 - 11:00 AM	ABHISHEK DHAR	Probability distribution of time of detection of a quantum mechanical particle at a screen
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TEA BREAK

SESSION	SPEAKER	TITLE OF THE TALK
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11:30 AM - 12:00 PM	DIBYENDU DAS	Stall forces and catastrophes in a system of multiple cytoskeletal filaments pushing an obstacle
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12:00 - 12:30 PM	THOMAS NIEDERMAYER	From actin filaments to the simple association-dissociation-aging process (SADAP)
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12:30 - 01:00 PM	RUMI DE	Dynamics of cell adhesion in presence of time varying stretch
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LUNCH AND POSTER SESSION

SESSION	SPEAKER	TITLE OF THE TALK
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03:30 - 04:00 PM	DEBASISH CHAUDHURI	Stochastic pump of interacting colloids
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04:00 - 04:30 PM	MITHUN MITRA	Asymmetric exclusion
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		process with stochastic gating
04:30 - 05:00 PM	KANCHAN GARAI	Modulating the landscape of self-assembly of alzheimers amyloid β -peptide
05:00 – 05:30 PM	SHORT ORAL PRESENTATION	Talks based on Monday's poster presentations

TEA BREAK

WEDNESDAY (03.12.2014)

PLENARY SESSION	SPEAKER	TITLE OF THE TALK
09:30 - 10:15 AM	UDO SEIFERT	Stochastic thermodynamics of molecular motors
10:15 - 11:00 AM	HEIKO RIEGER	Imbibition front roughening and in porous media with elongated pores

TEA BREAK

SESSION	SPEAKER	TITLE OF THE TALK
11:30 AM - 12:00 PM	SANJIB SABHAPANDIT	Universal large deviations for the tagged particle in single file motion
12:00 - 12:30 PM	KUNAL BHATTACHARYA	To join or not to join: Collective foraging strategies
12:30 - 01:00 PM	GAUTAM GANGOPADHYAY	Propensity approach to nonequilibrium thermodynamics of a chemical reaction network

LUNCH AND POSTER SESSION

SESSION	SPEAKER	TITLE OF THE TALK
03:30 - 04:00 PM	ARVIND AYYER	The multispecies Toom model
04:00 - 04:30 PM	SMARAJIT KARMAKAR	The static length scale characterizing the glass transition at lower temperatures
04:30 - 05:00 PM	SITABHRA SINHA	Learning to Balance: Extreme variability in convergence to structural balance in frustrated system
05:00 – 05:30 PM	SHORT ORAL PRESENTATION	Talks based on Tuesday's poster presentations

TEA BREAK

THURSDAY (04.12.2014)

PLENARY SESSION	SPEAKER	TITLE OF THE TALK
09:30 - 10:15 AM	JORGE KURCHAN	Thermodynamics of population dynamics
10:15 - 11:00 AM	HUGO TOUCHETTE	Theory of nonequilibrium processes conditioned on large deviations

TEA BREAK

SESSION	SPEAKER	TITLE OF THE TALK
11:30 AM - 12:00 PM	SUMEDHA	On the behaviour of random K-SAT on trees
12:00 - 12:30 PM	KOJI HUKUSHIMA	Inference of an effective physical model from STM

imaging data

12:30 - 01:00 PM

SHRADHA MISHRA

Role of density field in an active nematic

LUNCH BREAK

SESSION

SPEAKER

TITLE OF THE TALK

03:30 - 04:00 PM

TOMOYUKI OBUCHI

Properties of probability distributions constrained by observables
:Implication to maximum entropy modelling

04:00 - 04:30 PM

ARNAB CHATTERJEE

Statistical physics of social systems

04:30 - 05:00 PM

SHORT ORAL PRESENTATION

Talks based on Wednesday's poster presentations

TEA BREAK

FRIDAY (05.12.2014)

SESSION

SPEAKER

TITLE OF THE TALK

09:30 - 10:00 AM

SHANKAR GHOSH

Friction induced organization

10:00 - 10:30 AM

KAVITA JAIN

Rise and fall of mutators in adapted populations

10:30 - 11:00 AM

DHRUBADITYA MITRA

Rheology of inertial suspensions: Effects of confinement

TEA BREAK

SESSION

SPEAKER

TITLE OF THE TALK

11:30 AM - 12:00 PM

JAYDEB CHAKRABARTI

Microscopic calculation of conformational thermodynamics in bio

macromolecular complexes

12:00 - 12:30 PM

BISWAROOP MUKHERJEE

Translocation pathways in
smectic liquid crystals
facilitated by molecular
flexibility

12:30 - 01:00 PM

VOTE OF THANKS AND CLOSING REMARKS

LUNCH