

Supported by

Indo-French Centre for the Promotion of Advanced Research (IFCPAR/CEFIPRA)

Indo-French workshop on Classical and quantum dynamics in out of equilibrium systems

Recently a joint Indo-French international research project (IRP) on "Classical and quantum dynamics in out of equilibrium systems" was proposed between several laboratories of theoretical physics in France and in India. CNRS has approved this project whose Principal Investigators are Satya Majumdar (LPTMS), Gregory Schehr (LPTHE), Gautam Mandal (TIFR) and Manas Kulkarni (ICTS). The goal of the CEFIPRA supported workshop is to bring together people within this Indo-French international research project (and people not involved directly in the project) so that they can identify areas of common interests leading to possible future collaborations.

There is much interest on the French side, in CNRS as well as at the higher levels of the French government, to increase the level of scientific cooperation between France and India. Invited participants, both on the Indian and on the French side, are specialists of the wide and rapidly evolving field of classical and quantum dynamics in out of equilibrium systems. This workshop is expected to be a major step forward in building strong Indo-French academic relations.

Outline of Structure and Format:

The workshop will be structured around relatively short talks. Particular emphasis will be given to discussions among the invited participants during this week.

Tentative topics to be covered include

- 1) some aspects of non-equilibrium statistical physics
- 2) dynamics in quantum many-body systems
- 3) long-range interactions
- 4) quantum resetting
- 5) generalized Gibbs ensembles
- 6) phase space quantum dynamics
- 7) quantum measurement theory

Participation: By invitation only.

Accommodation will be provided for outstation participants at our on campus guest house.

Inaugural talks |

ALAIN MERMET (CNRS Europe & International)
ALBERTO ROSSO (CNRS, Director of LPTMS, France)
GAUTAM MANDAL (Chair, DTP, TIFR Mumbai, India)
NITIN SETH (Director, CEFIPRA/IFCPAR, India)
RAJESH GOPAKUMAR (Director, ICTS-TIFR, India)
THIERRY DAUXOIS (CNRS, Director Of CNRS Physique, France)

List of speakers |

ALEKSANDRA PETKOVIĆ
ALEXIS PONCET
AMIT GHOSAL
ANUPAM KUNDU
ARNAB PAL
ARTI GARG
BHARGAVI SRINIVASAN
CAMILLE ARON
CHANDAN DASGUPTA
DARIO VINCENZI
DAVID S. DEAN
DEEPAK DHAR
DIBYENDU DAS
DIPTARKA DAS
FABIEN ALET
HERBERT SPOHN
JACOPO DE NARDIS
JEAN-MARIE STÉPHAN
JÉRÉMIE BEC
JULIANE KLAMSER
KABIR RAMOLA
KEDAR DAMLE
KIRONE MALLICK
KRISHNENDU SENGUPTA
LAURA FOINI
LOGANAYAGAM R
MANON MICHEL
MARCO PICCO
MUSTANSIR BARMA

NICOLAS LAFLORENCIE
PARONGAMA SEN
PATRIZIA VIGNOLO
PINA CHAUDHURI
R. RAJESH
RAHUL PANDIT
RAMA GOVINDARAJAN
SAMRIDHI SANKAR RAY
SANJIB SABHAPANDIT
SHAMIK GUPTA
SPENTA R. WADIA
SRIKANTH SASTRY
SRIRAM RAMASWAMY
STHITADHI ROY
SUBHRO BHATTACHARJEE
SUMEDHA
SUPRIYA KRISHNAMURTHY
TRIDIB SADHU
URNA BASU
VALENTINA ROS
VIVIEN LECOMTE

Organisers |

ABHISHEK DHAR
ALBERTO ROSSO
GAUTAM MANDAL
GREGORY SCHEHR
MANAS KULKARNI
SATYA N. MAJUMDAR

16-20 December 2024
Ramanujan Lecture Hall

ICTS is committed to building an environment that is inclusive, non-discriminatory and welcoming of diverse individuals. We especially encourage the participation of women and other under-represented groups.

<https://www.icts.res.in/program/IFCQM>

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