Workshop on Understanding Quantum Phenomena with Path Integrals: From Chemical Systems to Quantum fluids and Solids

ICTP, Trieste (Italy)

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Danilo Calderini

ETH Zürich, Department of Chemistry and Applied Biosciences, Laboratory of Physical Chemistry Analysis and benchmark of Non-Adiabatic Dynamics with NRPMD

Alberto Cappellaro

Physics Department, University of Padova Thermal field theory of bosonic gases with finite-range effective interaction

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Ecole Normale Supérieure, INO-CNR BEC Center and Università di Trento *Thermodynamics of the unitary Bose gas from First principles*

Giovanni Di Liberto

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Lodz University of Technology, Faculty of Chemistry HYDROGEN ATOM ABSTRACTION FROM ETHANOL BY ATOMIC HYDROGEN IN AQUEOUS SOLUTION

Nikolay Kondratyuk

Joint Institute for High Temperatures of RAS Inclusion of quantum nuclear effects in alkanes using PIMD techniques

Yair Litman

Fritz Haber Institute, Max Planck Society Nuclear Quantum Effects on Surface-Assisted Water Dissociation

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Luca Parisi University of Trento Spin dynamics in one-dimensional bosonic quantum gases

Ricardo Pérez de Tudela

Lehrstuhl fuer Theoretische Chemie, Ruhr-Universitaet Bochum Nuclear quantum effects on acid dissociation in microsolvation environments

Muhammad Nawaz Qaisrani

International School of Advanced Studies, SISSA Protein Fluoresence (A nightmare problem)

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Universidad de Concepción, Facultad de Ciencias Física y Matemáticas, Departamento de Física *Entanglement generated by a Dicke phase transition*

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Indian Institute of Science Education and Research IISER Pune Nuclear Quantum Effects in an HIV/Cancer Inhibitor: The Case of Ellipticine

Supratik Sarkar

Indian Institute of Science Education and Research (IISER) - Pune, India From Quantum Fluids to Emergent Gravity: Quantum potential induced non-local BEC and Analogue Hawking radiation

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Faculty of Sciences, Mohammed V University of Rabat-Morocco Negativity of Wigner Function as Measure of Quantum Correlations

Luca Smaldone

Università degli Studi di Salerno, Dipartimento di Fisica "E.R.Caianiello" *Signatures of inequivalent representations in path integrals*

Aidan Strathearn

University of St Andrews School of Physics and Astronomy Efficient Simulation of Non-Markovian Open Systems Using Real Time Path Integrals

Manish Thapa

ETH Zurich, Department of Chemistry and Applied Biosciences Path Integral Methods to Compute Electron Transfer Reaction Rates

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Departamento de Física Teórica, Facultad de Física, Universidad de la Habana *Relaxation dynamics in isolated and open many-body quantum systems*

Luis Vasquez

Lodz University of Technology Nuclear Quantum Effects and Isotope Effects for Vaporation of Dibromomethane

Pierre Winter

San Diego State University, San Diego, USA Microcanonical Instanton Rate Theory Applied to Molecular Reactions