

Condensed Matter Physics & NanoTribology

- Conference in Honor of Erio Tosatti -

13 - 15 November, 2023

ICTP, Leonardo Building - Budinich Lecture Hall,
Miramare (Trieste), Italy

Organizers: G. Santoro - A. Vanossi - R. Fazio - S. Scandolo

Time	Monday 13	Tuesday 14	Wednesday 15
8.30 - 8.50	Registration		
8.50 - 9.00	Opening		
	<i>CHAIR</i>	<i>Santoro</i>	<i>Vanossi</i>
9.00 - 9.40	PARRINELLO	URBAKH	BECHINGER
9.40 - 10.20	LAIO	MISTURA	PERSSON
10.20 - 10.50	<i>Coffee Break</i>	<i>Coffee Break</i>	<i>Coffee Break</i>
10.50 - 11.30	CAR	MEYER	SIRIA
11.30 - 12.10	FABRIZIO	MANINI	HOD
12.10 - 14.00	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch Reception</i>
	<i>CHAIR</i>	<i>Fazio</i>	<i>Scandolo</i>
14.00 - 14.40	GALLI	MAURI	PIETRONERO
14.40 - 15.20	PASSERONE	PROFETA	LITTLEWOOD
15.20 - 15.50	<i>Coffee Break</i>	<i>Coffee Break</i>	<i>Conclusions by Erio & Coffee Break</i>
15.50 - 16.30	RIEDO	WANG	
16.30 - 17.10	BERNASCONI	FERRANDO	
17.10 - 17.50		BASKARAN	
	<i>Welcome Reception 7.00 pm</i>	<i>Social Dinner 8.00 pm</i>	

INVITED SPEAKERS

* **Ganapathy Baskaran** (baskaran@imsc.res.in)

TBA

* **Clemens Bechinger** (clemens.bechinger@uni-konstanz.de)

Friction of Brownian Particles in Nonequilibrium Baths

* **Marco Bernasconi** (marco.bernasconi@unimib.it)

Simulations of phase change alloys for embedded electronic memories

* **Roberto Car** (rcar@princeton.edu)

TBA

* **Michele Fabrizio** (fabrizio@sissa.it)

Local Kekulé distortions can stabilise topological insulating phases in magic-angle twisted bilayer graphene

* **Riccardo Ferrando** (ferrando@fisica.unige.it)

Growth of metallic nanoparticles -- An atomistic view

* **Giulia Galli** (gagalli@uchicago.edu)

Electronic structure and coherent states of spin defects in solids

* **Oded Hod** (odedhod@tauex.tau.ac.il)

Layered Ferroelectricity: from Geometric Measures to First-Principles Calculations

* **Alessandro Laio** (laio@sissa.it)

Identifying informative distance measures in high-dimensional feature spaces

* **Peter Littlewood** (littlewood@uchicago.edu)

Effects of elastic coupling at structural phase transitions

* **Nicola Manini** (nicola.manini@fisica.unimi.it)

Phonon Dissipation in sliding friction

* **Francesco Mauri** (francesco.mauri@uniroma1.it)

TBA

*** Ernst Meyer** (ernst.meyer@unibas.ch)

Force experiments on 2d-materials

*** Giampaolo Mistura** (giampaolo.mistura@unipd.it)

Passive and active control of drop motion on slippery lubricated surfaces

*** Michele Parrinello** (michele.parrinello@iit.it)

The surface physics of catalysis

*** Daniele Passerone** (Daniele.Passerone@empa.ch)

Atomistic modelling in the experimentalists lair: highlights from a theoretician paradise

*** Bo Persson** (b.persson@fz-juelich.de)

Multiscale contact mechanics theory with application to adhesion

*** Luciano Pietronero** (luciano.pietronero@roma1.infn.it)

Economic Fitness: Concepts, Methods and Applications

*** Gianni Profeta** (gianni.profeta@univaq.it)

Silicon surfaces, Erio, are we still there?

*** Elisa Riedo** (er124@nyu.edu)

Elasticity and Dissipation in 2D

*** Alessandro Siria** (alessandro.siria@lps.ens.fr)

Experimental investigation of quantum liquid-solid friction

*** Michael Urbakh** (urbakh@tauex.tau.ac.il)

Structural lubricity in layered material interfaces

*** Xiaoqun Wang** (Xiaoqunwang@zju.edu.cn)

A density-matrix renormalization group algorithm for non-hermitian physics