

# Minischool on Biophysics of Protein Interactions

March 9 - 13, 2015

Instituto de Física Teórica - UNESP - São Paulo, Brazil

This school will compare different modern approaches to highly charged, structured, and disordered Coulomb systems. Its primary purpose will be to cross-pollinate the different theoretical, experimental and simulation approaches to progress towards a unified description of the electrostatic interactions in soft- and bio-matter. This school is aimed at graduate students and researchers in the fields of statistical mechanics, materials science, biophysics and nanobiotechnology.

## Invited Lecturers:

**Mathias Boström** (University of Oslo, Norway )

*Hofmeister effects, Van der Waals forces and modeling of cellulose in solution*

**Hernan Chaimovich** (USP-São Paulo, Brazil)

*Trifluoromethane sulfonate as a surfactant counterion: properties and applications*

**Ralf Eichhorn** (Nordita, Sweden)

*Theory of phoretic effects induced by the (counter-)ions in the system*

**Rosângela Itri** (USP-São Paulo, Brazil)

*Protein interactions as revealed by small-angle x-ray scattering*

**Yan Levin** (UFRGS, Brazil)

*Introduction to statistical mechanics of charged systems*

**João Ruggiero Neto** (UNESP-Rio Preto, Brazil)

*Electrostatic and non-electrostatic features in the interaction of lytic peptides with model membranes*

## Organizers / Lecturers:

**Fernando Luís Barroso da Silva** (USP-Ribeirão Preto, Brazil)

*On the peculiar electrostatic effects observed in protein systems – a computational approach*

**Roland Netz** (Freie Universität Berlin, Germany)

*Hydration and dielectric effects at surfaces*

**Rudolf Podgornik** (U. Ljubljana, Slovenia)

*Charge regulation and electrostatic interactions in proteins*

The online registration form and more information can be found at:

<http://www.ictp-saifr.org/protein>

There is no registration fee and limited funds are available for local and travel support of participants.

The application deadline is **January 05, 2015**



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