

Mini-Workshop on Selected Topics in Soft Matter Dynamics

25 August 2013 (3 Shahrivar 1392)

School of Physics, IPM, Tehran

Lectures:

- Golnaz Najafi Gol-Vandani: *A Simple Low-Reynolds-Number Pump*
- Reza Kiani Iran-pour: *Thermoelectric Drift of Charged Fluids*
- Seyyed Nader Rasuli: *Soret Motion of a Charged Colloid*
- Ali Naji: *Electrophoresis of DNA in a Charged Fluid*

This casual meeting covers a few selected topics on the non-equilibrium dynamical behavior of soft materials and complex fluids such as (charged) colloids and polymers under the action of an electric field and/or in the presence of a temperature gradient. The presence of a hydrodynamic medium (such as water) as well as a Coulomb fluid of mobile charges in these systems leads to certain peculiarities that have been at the focus of numerous experimental as well as theoretical studies in recent years. This mini-workshop is intended to provide a venue for the participants to discuss the theoretical aspects of some these phenomena and is aimed mainly at advanced graduate students and postdoctoral researchers.

The meeting starts at 11:00 in the Seminar Room (Classroom) located on the ground floor of Farmanieh Building. The lunch break is at 12:30 and the afternoon lectures begin at 13:30.

All interested students and researcher are welcome to attend the meeting.

Please send your inquiries to: conf1@theory.ipm.ac.ir

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