



INTERNATIONAL
CENTRE *for*
THEORETICAL
SCIENCES

TATA INSTITUTE OF FUNDAMENTAL RESEARCH

UNDERSTANDING MOLECULAR SIMULATIONS

Theory and Applications

November 3 - 13, 2010

Indian Institute of Technology Kanpur

Molecular Simulations have become a very useful tool to analyze various phenomena in physical, chemical and biological systems. With the advent of better computational facilities, there has been a significant push towards a molecular level analysis. Many complex problems in condensed matter systems are regularly investigated using molecular simulation techniques. This school aims to provide the conceptual foundations and working knowledge of molecular simulations. The participants will also be exposed to programming and other technical aspects of molecular simulation. In addition, applications ranging from materials to biology will be showcased. The ten day program will include lectures, tutorial and hands-on computer training sessions conducted by the experts in the field. The proposed school will help the young researchers and students go beyond the usual university curriculum of molecular simulation and statistical mechanics.

Tentative Speakers:

Dr. Daan Frenkel, Cambridge
Dr. Srikanth Sastry, JNCASR, Bangalore
Dr. Surajit Sengupta, SNBNCBS, Kolkata
Dr. S. Balasubramanian, JNCASR, Bangalore
Dr. S. Yashonath, IISc, Bangalore
Dr. Ganapathy Ayyappa, IISc, Bangalore
Dr. S. Vemparala, IMSc, Chennai
Dr. P.B. Sunil Kumar, IIT Chennai
Dr. Subir Das, JNCASR Bangalore
Dr. Sumit Basu, IIT Kanpur
Dr. Abhijit Chatterjee, IIT Kanpur
Dr. Pankaj Apte, IIT Kanpur
Dr. R. Sankararamakrishnan, IIT Kanpur
Dr. Jayant K. Singh, IIT Kanpur
Dr. Nisanth N. Nair, IIT Kanpur
Dr. Madhav Ranganathan, IIT Kanpur
Dr. Amalendu Chandra, IIT Kanpur

Conveners:

Dr. Amalendu Chandra
Dr. Madhav Ranganathan
Dr. Nisanth N. Nair
Dr. Srikanth Sastry
Dr. Surajit Sengupta

The School is primarily intended for Ph.D. students in their first two years. However, other research students, postdocs and young researchers can also apply.

Selected participants receive free local accommodation and travel support (AC 3 Tier train). There is no registration fee for participants. Apply online at www.icts.res.in/program/UMS2010

Application Deadline: September 10, 2010

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