



Recent Developments in Computer Simulational Studies in Condensed Matter Physics

Program of the 2008 – 21st Annual Workshop

Monday, February 18th

8:30 – 10:00 AM	Registration in Room 307B of the Physics Building
9:00 - 10:00 AM	Coffee and Donuts or Muffins Informal discussion in Conference Room 201
10:00 – 10:05 AM	David P. Landau (The University of Georgia) Introductory Remarks
10:05 – 11:05 AM	Helmut Katzgraber (ETH Zurich) “New Insights from One-Dimensional Spin Glasses”
11:20 – 11:35 AM	Joan Adler (Technion, Israel) “Molecular Hydrogen Revisited”
11:50 – 12:05 PM	Xiuping Tao (Oak Ridge National Laboratory) “Protein & Protein Complex Structure Identification”
12:15 PM	Lunch
2:00 – 3:00 PM	Peter Virnau (University of Mainz, Germany) “Capturing Knots in Polymers, DNA and Proteins”
3:15 – 3:30 PM	Dennis Rapaport (Bar-Ilan University, Israel) “Microswimming”
	Break
4:00 – 4:15 PM	Andrei Galiutdinov (University of Georgia) “From Hamiltonians to Quantum Logic Gates”
4:30 – 4:45 PM	Ras Pandey (University of Southern Mississippi) “Dispersion of Platelets in a Host Matrix of Mobile Polymer Chains”



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Tentative Program of the 2008 – 21st Annual Workshop

Tuesday, February 19th

- 9:00 – 10:00 AM Coffee and Donuts or Muffins
Informal discussion in Conference Room 201
- 10:00 – 11:00 AM **Ruhong Zhou** (IBM)
“Exploring Hydrophobic Interactions in Protein Folding”
- 11:15 – 11:30 AM **Emanuel Gull** (ETH Zurich)
“Continuous Time Solvers for Quantum Impurity Problems”
- 11:45 – 12:00 PM **Stefan Boettcher** (Emory University)
“Regular Hierarchical Small-World Networks”
- Lunch
- 2:00 – 3:00 PM **Robin Selinger** (Kent State University)
“Rubber That Moves: Modeling Liquid Crystalline Elastomers”
- 3:15 – 3:30 PM **Kurt Binder** (University of Mainz, Germany)
“Simulations of Glassforming Network Fluids: Classical MD versus CPMD”
- Break
- 4:00 – 5:00 PM Joint Workshop/Colloquium in Room 202
Thomas Schulthess (ORNL)
“Toward Materials Specific Simulations of Superconductivity
In the Cuprates”



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Tentative Program of the 2008 – 21st Annual Workshop

Wednesday, February 20th

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| 9:00 – 10:00 AM | Coffee and Donuts or Muffins
Informal discussion in Conference Room 201 |
| 10:00 – 11:00 AM | Joao Plascak (Universidade Federal de Minas Gerais, Brazil)
“Spin-Dynamics Simulations of the XY Vector BEG Model” |
| 11:15 – 11:30 AM | Nobuyasu Ito (University of Tokyo, Japan)
“Energy Flux Distribution” |
| 11:45 – 12:00 PM | Steven Lettieri (Lehigh University)
“Hofmeister Effect on Phase Diagram of Lysozyme” |
| | Lunch |
| 2:00 – 3:00 PM | Andreas Troester (University of Vienna, Austria)
“From Compressible Spin Models to Elastic Membranes:
A Fourier Monte Carlo Approach” |
| 3:15 – 3:30 PM | Yohsuke Murase (University of Tokyo)
“Effects of Stochastic Population Fluctuations in Two Models
of Biological Macroevolution” |
| | Break |
| 4:00 – 5:00PM | Riku Linna (Helsinki University of Technology, Finland)
“Coarse-grained Modeling of Biopolymers and Processes” |
| 6:00 – 7:30 PM | Reception in the North Tower of the Student Learning Center on campus |



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Tentative Program of the 2008 - 21st Annual Workshop

Thursday, February 21st

- 9:00 – 10:00 AM Coffee and Donuts or Muffins
Informal discussion in Conference Room 201
- 10:00 – 11:00 AM **Boris Svistunov** (University of Massachusetts)
“Diagrammatic Monte Carlo”
- 11:15 – 11:30 AM **Katja Schaefer** (Mississippi State University)
“Recent Advances in the Projective Dynamics Method”
- 11:45 – 12:00 AM **Claire Gervais** (University of Georgia)
“Simulations of Membrane Proteins with Wang-Landau sampling:
New Clues on the Folding Process of Glycophorin”
- Lunch
- 2:00 – 3:00 PM **Walter Selke** (RWTH Aachen, Germany)
“Uniaxially Anisotropic Antiferromagnets in a Field”
- 3:15 – 3:30 PM **Xiaofei Li** (Lehigh University)
“Umbrella Sampling Study of Crystal Nucleation in Aqueous
Solutions of Globular Proteins”
- Break
- 4:00 – 4:15 PM **Shan-Ho Tsai** (University of Georgia)
“Critical Endpoint Behavior: A Two-Dimensional Wang-Landau Study”
- 4:30 – 4:45 PM **Thomas Wüst** (University of Georgia)
“Exploring HP Protein Models Using Wang-Landau Sampling”



Recent Developments in Computer Simulational Studies in Condensed Matter Physics

Tentative Program of the 2008 – 21st Annual Workshop

Friday, February 22nd

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| 8:30 – 9:00 AM | Coffee and Donuts or Muffins
Informal discussion in Conference Room 201 |
| 9:00 – 10:00 AM | Stefano Curtarolo (Duke University)
“Carbon Solubility in Fe Nano-Clusters and the Growth of Single-Walled Carbon Nanotubes” |
| 10:15 – 11:15 AM | Hans-Georg Matuttis (University of Electro-Communication, Tokyo)
“Numerical Exact Implementation of Friction in Granular Material Simulations” |
| 11:30 – 11:45 AM | Hans de Raedt (University of Groningen, The Netherlands)
“Computer Simulation of Wheeler’s Delayed Choice Experiment” |
| 11:45 – 12:00 AM | David Landau (University of Georgia)
Closing Remarks |