Program of the 91st Statistical Mechanics Meeting, Rutgers University, May 16–18, 2004

Joel Lebowitz

Please note that in many cases there is only one speaker listed, although the work may have been done with collaborators. Also, the addresses may be incomplete.

Information about past and future meetings, as well as positions wanted and available can be obtained at http://www.math.rutgers.edu/events/smm/index.html

The next Statistical Mechanics Meeting will take place December 19–21, 2004.

REVIEW TALKS

C.K. Hu, Academia Sinica, huck@phys.sinica.edu.tw
Exact Finite-Size Corrections for Critical Ising and Dimer Models
F. Stillinger, Princeton University, fhs@princeton.edu
Pair Correlation Function Realizability Problems
S. Torquato, Princeton University, torquato@electron.Princeton.edu
Local Density Fluctuations, Hyperuniformity, and Order Metrics
P. Debenedetti, Princeton University, pdebene@Princeton.edu
Energy Landscape Statistics
G. Slade, University of British Columbia, slade@math.ubc.ca
Phase Transition in High-Dimensional Networks
S. Havlin, Bar Ilan University, havlin@ophir.ph.biu.ac.il
Structure and Stability of Complex Networks
M. Newman, University of Michigan, mejn@umich.edu
The Statistical Mechanics of Networks

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S. Solla, Northwestern University, solla@northwestern.edu
   Self-Sustained Activity and Failure in a Small-World Network of
   Excitable Neurons

R. da Silveira, Harvard University, rava@cmt.harvard.edu
   Minimal Paths in a Model Cortex

Y. Sinai, Princeton University, sinai@math.princeton.edu
   New Results from Mathematical Hydrodynamics

C. Newman, NYU/Courant Institute, newman@CIMS.nyu.edu
   The Full Scaling Limit of 2D Critical Percolation

L. Blum, University of Puerto Rico, lblum@rrpac.upr.clu.edu
   Analytical Theory of Liquid Water: A Phase Transition with Poten-
   tial Interest in Biology

J. D. Weeks, University of Maryland, jdw@ipst.umd.edu
   Screening, Structure, and Simulations of Ionic Fluids

D. Chandler, University of California, Berkeley, chandler@cchem.
   berkeley.edu
   Geometry and Dynamic Scaling of Structural Glass Formers

M. Magnasco, Rockefeller University, marcelo@zahir.rockefeller.edu
   Virtual Gating in the Nuclear Pore Complex

A. Sengupta, Rutgers University, anirvans@physics.rutgers.edu
   Specificity of Protein-DNA Interaction in Transcription Control:
   Physics, Evolution and Bioinformatics

D. Fisher, Harvard University, fisher@dsf.harvard.edu
   Evolution: Is ANYTHING Understood Quantitatively?

D. Vanderbilt, Rutgers University, dhv@physics.rutgers.edu
   Electronic Structure of an Insulator in a Finite Electric Field: What
   to Do When There Is No Ground State

S. Sachdev, Yale University, subir.sachdev@yale.edu
   Breakdown of the Landau-Ginzburg-Wilson Paradigm at Quantum
   Phase Transitions

T. Senthil, MIT, senthil@mit.edu
   Deconfined Quantum Criticality

A. Libchaber, Rockefeller University, asveste@mail.rockefeller.edu
   Techniques from Physics, Problems from Biology

E. Chudnovsky, J. L. Lebowitz and others
   Session: Human Rights and Social Responsibilities of Scientists

R. W. Kenyon, Princeton University, rkenyon@math.princeton.edu
   Limit Shapes and Fluctuations of Crystalline Surfaces

V. B. Priezzhev, Joint Institute for Nuclear Research, Russia,
   priezzvb@thsun1.jinr.ru