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PROGRAM OF THE 35TH STATISTICAL MECHANICS MEETING

Belfer Graduate School of Science
Yeshiva University
May 12, 1976

For many years Yeshiva University has held semiannual one-day meetings on statistical mechanics. These meetings are extremely informal, with participants invited to present brief talks on their work. No proceedings of these meetings are published, so, as a service to the statistical mechanics community, the speakers and the titles of their work are listed below. In many cases, there is only one speaker listed although the work may have been done with collaborators. Also, many addresses are incomplete. Anyone who is interested in communicating with a speaker and who requires a more complete address may obtain it by writing to

Dr. Joel L. Lebowitz
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Nematic Liquid Crystals and Dimer Lattice Models with Anisotropic Tails
J. H. Nagle, Carnegie-Mellon University

Phase Transition in the Two-Dimensional Coulomb Gas and the Interfacial Roughening Transition
John D. Weeks, Bell Laboratories

Cluster Properties in a Two-Dimensional Model Alloy
M. H. Kalos, Courant Institute

The Double Cusp
R. Griffiths, Carnegie-Mellon University

Phase Transitions for Heisenberg Models
B. Simon, Princeton University

Light Scattering from Charged Macrospheres at Dilute Concentrations
Steward Harris, State University of New York at Stony Brook

The Critical Point in a Fluid of Charged Spheres
G. Stell, State University of New York at Stony Brook

Boundary Free Energies in Ising Models
M. Fisher, Cornell University

Thermally-Driven Phase Transitions Near the Percolation Limit
H. E. Stanley, Massachusetts Institute of Technology

Critical Exponents for the Conductivity of Random Resistor Lattices
J. P. Straley, University of Kentucky

Fixed Points in Inhomogeneous Systems
Scott Kirkpatrick, IBM, Yorktown Heights

Renormalization of the van der Waals Theory of Critical Phenomena
Miroslav Grmela, University of Montreal

Lattice Models of Binary Fluids with Upper and Lower Consolute Points
John C. Wheeler, Cornell University and University of California at San Diego

Hard Spherocylinders in an Anisotropic Mean Field: A Simple Model for a Nematic Liquid Crystal
Martha A. Cotter, Bell Laboratories/Rutgers University

Models of Three-Phase Equilibrium
J. Fox, Cornell University

Interfacial Tension in Three-Phase Equilibrium
B. Widom, Cornell University

The Potts Model in Real Ferromagnets
David Mukamel, Cornell University

Improved Upper and Lower Bounds for T_c for the Bond Disorder Problem in the Ising Model
T. K. Bergstresser, Clark University

Dynamical Order Parameter Fluctuations in a Quenched Amorphous Magnet
Joseph W. Haus, National Bureau of Standards

Time-Dependent Correlation Functions for the Nonlinear Burnett Order Transport Coefficients
Michael Lindenfeld, University of Florida

Turbulence, Intermittency, and Scaling
Eric D. Siggia, University of Pennsylvania

Solution to the One-Dimensional Boson Pairing Equations
J. Woods Halley, EAS, Yale University and University of Minnesota

Simulating the Fermi Ground State
David Ceperley, Cornell University

Kinetic Theory of Liquid Electrolytic Conductors
J. Hubbard, University of Miami

New Look at Electric Double Layers
Lesser Blum, University of Puerto Rico

Correlation Functions and Higher-Order Coherence in Inelastically Scattered Quantum Radiation
Andrei N. Weiszmann, Richmond College

Computer Experiments with Cebysev Mixing Transforms (Order Out of Chaos)
Thomas Erber, Illinois Institute of Technology

Kinetic Theory of Dense Plasmas
Harvey Gould, Clark University

Ergodicity for Quantum Systems
Boris Leaf, State University College of Cortland

Multicriticality in Anisotropic XY Systems
Eytan Domany, Cornell University

Percus–Yevick Theory of Melting and Percus–Yevick Temperature in Liquids
Edward Siegel, New Jersey Public Service

System Theoretic Representation of Many-Body Systems: Platons–A New Description of Quasiparticles
D. K. Saraswati, Notre Dame University

Behavior of Odd Spin Correlations Near T_c (a)
Bounds on Cluster Distributions (b)
J. L. Lebowitz, Yeshiva University

Equivalent Ensembles for Spin-Impurity Systems
Harold Falk, City University of New York