Journal of Statistical Physics, Vol. 20, No. 6, 1979

PROGRAM OF THE 41ST STATISTICAL MECHANICS MEETING

Department of Mathematics Rutgers University May 10 and 11, 1979

These two-day meetings are extremely informal, with participants presenting 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, the 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 Department of Mathematics, Hill Center Rutgers University New Brunswick, New Jersey 08903

Remark on Dobrushin's Uniqueness Theorem Barry Simon, Princeton University

Nonequilibrium Entropy for Dynamical Systems S. Goldstein, Rutgers University, and O. Penrose, Open University

Debye Shielding in Classical Statistical Mechanics *Paul Federbush*, University of Michigan

Debye Screening David Brydges, University of Virginia

The 1/N Expansion Anti Kupianin, Princeton University

Some Comments on the Lipatov Method T. Spencer, Rutgers University

Low-Temperature Behavior of Continuous Spin Systems Jean Bricmont, Rutgers University
Surface Tension Charles Pfister, Rutgers University
Localization in Disordered Systems – Rigorous Results H. Kunz, EPFL, Lausanne, and B. Souillard, Poly., Paris
One-Dimensional XY Model: Finite Temperature Transverse Autocorrelation of a Spin for Large Times <i>M. Mohan</i> , State University of New York at Stony Brook
Instability of Phase Coexistence in Two-Dimensional Lattice Models Michael Aizenman, Princeton University
Proof of the Uniqueness of the Even Correlation Function in a (A¢Z ²) Two- Dimensional Ising Model at Low Temperature Danilo Merlini, Northeastern University
Convergence of a Self-Avoiding Walk to Brownian Motion in 5 or More Dimensions Greg Lawler, Princeton University
Mixing Nonextremal Gibbs State Joseph Slawny, Institute for Advanced Study
Potts Model with Two- and Three-Site Interactions F. Y. Wu, Northeastern University
Asymptotic Probability Distribution of Observables in Canonical Ensembles Mark Kon, Massachusetts Institute of Technology
On The Existence of Crystals Charles Radin, University of Texas
Extrapolation of Lattice Gauge Theories to the Continuum Limit Hemant Vaidya, Columbia University
The ϕ^4 Lattice Field Theory as an Expansion About the Ising Limit <i>Gunduz Caginalp</i> , Rockefeller University
Banach Algebras and Kadanoff Transformations Robert Israel, University of British Columbia
New Rigorous Inequalities for Critical Exponents Alan D. Sokal, Princeton University
Universal Properties of Maps on an Interval P. Collet, Harvard University, JP. Eckmann, University of Geneva, and O. E. Lanford, III, University of California
Statistical Mechanics and the Physics of Fundamental Particles Arthur Jaffe, Harvard University, and Kenneth Wilson, Cornell University

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Phase Segregation in Stars and/or Other Charged Systems Bernie Alder, Livermore
Comment Freeman Dyson, Institute of Advanced Study
Black Holes Malcolm Perry, Institute of Advanced Study
Molecular Dynamics Shock Waves: Film and Commentary B. L. Holian and G. K. Straub, Los Alamos Scientific Laboratory
Application of Isomorphism Theory to Channels Paul Shields, University of Toledo
Light Scattering by Ar G. K. Horton, Rutgers University
Nucleation Theory of Overdamped Soliton Motion M. Büttiker and R. Landauer, IBM Research Division
Crossover Scaling Function for the Specific Heat in Renormalized Perturbation Theory Walter Theumann, Polytechnic Institute of New York
Frustration and the Ground State of the $S = 1/2$ XY Antiferromagnet on the Triangular Lattice Donald D. Betts and L. Marland, University of Alberta
A Study of the Polymer Problem by Loop Elimination Z. Alexandrowicz, State University of New York at Albany
Monte Carlo Renormalization Group Robert H. Swendsen, Brookhaven National Laboratory
The Euclidean Group as a Dynamical Symmetry of Surface Fluctuations D. J. Wallace, Harvard University
Physical Implications of High-Order Perturbation Calculations E. Brezin, Saclay
Present Status of Spin Glass Theory P. Anderson, Princeton University and Bell Laboratories
Theory of Spin Glasses with Many Neighbors Daniel Mattis, Polytechnic Institute of New York
Structural Transitions Between Epitaxially Ordered Phases of Gases Adsorbed on Graphite Stellan Ostlund, Harvard University
Non-Ising Nature of the Liquid–Vapor Coexistence Curve Diameters Chester Vause, Rutgers University

- Numerical Estimates of the Dimension of the Largest Cluster and Its Backbone in Percolation in Two Dimensions
 - J. Woods Halley, University of Minnesota
- Renormalization Group Approach to Correlated Percolation and Ising Critical Droplets

A Coniglio, Naples University and Boston University, and W. Klein, Boston University

- Statistics of Branched Polymers Sidney Redner, Boston University
- Site-Bond Percolation by Position-Space Renormalization Group H. Nakanishi and P. J. Reynolds, Boston University
- Dynamic Behavior of Pairs of Atoms in Simple Liquids Steven W. Haan, National Bureau of Standards
- A Renormalization Group Approach to Percolations in Two Dimensions P. D. Gujrati, Yeshiva University
- Theory of Spin Glasses R. Raghaven, New York University
- (a) Dynamics of Spin Glasses; (b) Inverse Dynamical Problems in Statistical Mechanics
 - G. Forgacs, State University of New York at Albany
- Dependence of Gaseous Transport Properties on the Softness of the Potential James C. Rainwater, National Bureau of Standards
- Monte Carlo Simulation of the "Cubic Model" *M. J. Sablik*, Fairleigh Dickinson University
- Polymers in a Confined Geometry Itzhak Webman, Rutgers University
- A Monte Carlo Study of a Triplet Interaction Kinetic Ising Model Sheldon Katz, Lafayette College, and James Gunton, Temple University
- Experimental Study of Three-Phase Equilibrium *Peter Bocko*, Cornell University
- Some Critical Effects of Walls Michael E. Fisher and Helen Au-Yang, Cornell University
- Statistical Description of 1/f Voltage Fluctuations M. Nelkin, Cornell University
- Hyperscaling Revisited Bernie Nicol, Guelph University
- Phase Diagrams and Lattice Gauge Theories with Higgs Fields Edouardo Fradkin, Stanford University, and Steve Shenker, Cornell University

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Thermodynamics of Classical Nonlinear Fields Neelam Gupta, University of Rhode Island Growth and Biconnectivity of Percolation Clusters George Bishop, Ralph Harrison, and George Quinn, Army Materials and Mechanics Research Center, and Joshi Hoshen, University of Michigan Crossover from First Order to Continuous Transitions Induced by Symmetry **Breaking** Fields David Mukamel, The Weizmann Institute of Science Surface Reconstruction: A Realization of Two-Dimensional Ising and XY Models P. Bak. IBM Research Center Quantum Effects in Spin Dynamics Jill Bonner, University of Rhode Island Kinetics of Polymerization Robert Ziff, State University of New York at Stony Brook Magnetic Susceptibility of Compressible Magnets Near the Critical Point John Bruno, Rutgers University

The next Statistical Mechanics Meeting will take place December 13 and 14, 1979 just before the Conference on Nonlinear Dynamics at The New York Academy of Sciences, December 17 through 21, see notices.