PROGRAM OF THE 37TH STATISTICAL MECHANICS MEETING Belfer Graduate School of Science Yeshiva University May 10, 1977

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 Belfer Graduate School of Science Yeshiva University 2495 Amsterdam Avenue New York, N.Y. 10033

Spanning Trees on Lattices in Two Dimensions F. Y. Wu, Northeastern University

Noncritical Interface Near a Critical End Point B. Widom, Cornell University

Interfacial Tension for the Lattice Gas by Renormalization Group R. B. Griffiths, Carnegie-Mellon University

Correlations in the Liquid-Vapor Interface J. Weeks, Bell Laboratories The Structure of Liquid Interface Near a Wall M. Rao, Columbia University

Two-Dimensional Ising Model: Explicit Formulas for n-Point Functions C. Tracy and B. McCoy, State University of New York at Stony Brook

Some Soliton Statistical Mechanics Results

J. A. Krumhansl, Cornell University

Crossover in the Normal-to-Superconducting Transition

J. H. Chen, University of Pennsylvania

Anisotropic Critical Behavior of the Nematic-to-Smectic-A Phase Transition T. C. Lubensky, University of Pennsylvania

A van der Waals Fixed Point

M. S. Green, Temple University

NMR Measurement of Xe Liquid-Vapor Critical Exponent β in Absence of Gravitational Density Gradients

H. Y. Carr, Rutgers University

The Universal Interface Profile in 4- ϵ Dimensions

J. Rudnick, Case Western Reserve University

Studies of Helical Order and Its Onset at the Lifshitz Point

S. Redner and E. Stanley, Massachusetts Institute of Technology and Boston University

Spin Wave Dynamics in One and Two Dimensions

D. S. Fisher and D. R. Nelson, Harvard University

Some X-Y Model Results

R. Myerson, Institute for Advanced Study

Transverse Spin-Correlation Functions for the XY Model: Exact Analysis in the Scaling Region

H. Vaidya, State University of New York at Stony Brook

Dense Plasmas

G. Kalman, Boston College

Transport Properties of Diatomic Fluids—Dilute Gas and Liquid D. J. Evans, Cornell University

Cutoff Corrections to Critical Behavior *I. Lawrie*, Cornell University

"Circle Theorem" for a Binary Lattice Gas L. K. Runnels, Louisiana State University

Distribution Functions and Fluctuations Theorems of a Fluid R. M. Ziff, University of California

Reinterpretation of Linear Response Theory: The Van Hove Limit K. M. van Vliet, University of Montreal

Noise in Chemical Oscillators

S. Machlup, Case Western Reserve University

On a Certain Extremum Property in the Equation of Transport R. L. W. Chen, Emory University

Phase Transition in the Context of Genetic Cluster Analysis H. Falk. City College

Application of Percolation Theory to Binary Mixtures J. Hoshen, University of Michigan

Critical Temperature for Ising Ferromagnets with Quenched Bond Disorder R. Fisch, University of Pennsylvania

ε-Expansion for Random Resistor Networks C. Dasgupta, University of Pennsylvania

Stable and Unstable Limit Cycle Oscillation in Biological Systems L. Glass, McGill University

Monte Carlo Studies of Self-replicating Macromolecules M. Bishop, Fordham University

Monte Carlo Calculations of Pair Correlation of Hard Spheres at Finite
Temperatures

P. A. Whitlock, New York University

Representation of Entropy Functionals

C. C. A. Sastri, University of Saskatchewan

An Irreversible Kinetic Equation for the Many-Body Distribution Function G. V. Ramanathan, University of Illinois

A Functional Differential Equation Approach to Classical Statistical Mechanics W. Shugard, City College

Existence of the Boundary Free Energy G. Caginalp, Cornell University

Metastability in 2-D Ising

L. S. Schulman, Indiana University

Kinetic Theory of Rough-Sphere Liquids R. C. Desai, University of Toronto

Report from Paris

J. L. Lebowitz, Yeshiva University

FALL MEETING

The next statistical mechanics meeting will take place at Rutgers University, New Brunswick, N.J., during the week of December 12, 1977. For further information, contact Dr. Joel L. Lebowitz at the Mathematics Department there.