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Statistical Physics Days

Istanbul Technical University

14–15 July 1994

Joel Lebowitz, Time's Arrow and Boltzmann's Entropy
Cemal Yalabık, Steady State Approximations for Mesoscopic Transport
Ayşe Erzan, An Analytical Approach to Spatio-Temporal Intermittency
Tarık Çelik, Multicanonical Simulations of Spin Glasses
Meral Aydın, Antiferromagnetic Ising Model on the Penrose Lattice
Bilal Tanatar, Monte Carlo Simulations of Two-Dimensional Electron Systems
Refik Kortan, Experimental Studies of Novel Phases of Matter: Fullerenes and Quasicrystals
Serdar Öğüt, First Principles Study of Structural Energetics and Transport Properties of Intermetallic Compounds
Mustafa Keskin, The Spin-1 Ising Model on the Body-Centered Cubic Lattice Using the Pair Approximation
Hamit Yurtseven, Weakly First-Order and Nearly Second-Order Phase Transitions
Bekir Karaoğlu, Binary Mixtures of Liquid Metals
Figen Kadırgan, Relevance of CO_{ad} in Electro-Catalytic Poisoning of Noble Metal Surfaces during Electrooxidation of Small Organic Molecules and a Theoretical Study of CO Adsorption
Nihat Berker, Finite-Temperature Phase Diagram of the Three-Dimensional tJ Model of Electronic Conduction: Renormalization-Group Theory

SHORT TALKS

(When more than one author, the speaker is indicated by an asterisk)

Optimization Techniques in Phenomenological Renormalization
Yiğit Gündüç, Hacettepe University

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Domain Growth in the Three-Dimensional Random-Field Ising Model
Enis Oğuz, Bosphorus University

Absorbing Boundary Condition in the Schrödinger Equation
M. Ihsan Ecemiş* and Cemal Yalabık, Bilkent University

Non-Scaling and Cascade Models in Deep Inelastic Scattering
Gülay Acar-Fırat,* ITU, and Avadis Hacınlıyan, Bosphorus University

Uniform and Spin-Glass Order in the Triangular-Lattice Antiferromagnetic Ising Model due to Quenched Random Dilution
Hüseyin Kaya,* ITU, and A. Nihat Berker, MIT and ITU

Resistivity Anomalies Associated with Magnetic Phase Transitions in Amorphous Materials
Yıldırhan Öner, ITU

Density Oscillations in Superfluid Systems
E. Demircan* and Q. Niu, University of Texas, Austin

Ground-State Energy of Quasi-One Dimensional Electron and Charged Boson Systems
H. Türeci* and B. Tanatar, Bilkent University

Band-Gap Renormalization in Quasi-One Dimensional Electron–Hole Systems
K. Güven* and B. Tanatar, Bilkent University

^{35}Cl NMR and Relaxation in the Triangular Lattice Antiferromagnet VCl_2
Fügen Tabak,* Hacettepe University, and A. Lascialfari, A. Rigamonti, Universita "A. Volta," Pavia

Recursive Least-Squares with Exponential Forgetting; Lyapunov Exponent as the Forgetting Exponent
Inanç Birol* and Avadis Hacınlıyan, Bosphorus University

The Effect of Particle Shape on the Entropy of Liquids
Yeşim Lenger, Yıldız Technical University

Monte Carlo Simulations of Ferromagnetic Materials
Ahmet Çetin* and Servet Ekmekçi, Trakya University

A Simulation on Optical Properties of Polymer Films
Murat Canpolat* and Önder Pekcan, ITU

Phase Diagram near the NAC Point in a Mixture of Liquid Crystals
H. Yurtseven and S. Salihoğlu,* ITU

Determination of the Critical Temperature T_N of the Two-Dimensional Simple Antiferromagnetic Square Lattice by the Green Function Method
H. Polat, Inönü University

Microscopic Model of Convective Flow Cell Walls in Nematic Liquid Crystals
Ömer B. Artun* and Susan R. McKay, University of Maine

Critical Exponents ν and η for the Two-Dimensional Ising Model by the Creutz Algorithm
Bülent Kutlu* and Nevzat Aktekin, Gazi University

Simulation of the Three-Dimensional Ising Model by the Creutz Algorithm
Nevzat Aktekin, Gazi University

The Behaviour of Some Thermodynamic Quantities and Calculation of Critical Points for Ising-like Spin Systems with Few Number of Sites
Uğur Tırnaklı, Ege University

Perturbation Procedure for Problems in Paramagnetism
Cemil Tunç, Yıldız Technical University

Hubbard Model of a Fermion System with Lattice Dependent Parameter
Aytekin Tüblek, ITU

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