

Program of the Second Statistical Physics Days Istanbul Technical University 13–14 July 1995

INVITED TALKS

Polymer/Polymer Interdigitation

Pierre Gilles de Gennes, ESPCI

Stretched Polymer Chains Under Forces and Flows; Stationary and Transient Regime

Françoise Brochard, ESPCI

Simulation of Protein Folding—A Coarse Grained Approach

Ivet Bahar, Bosphorus University

Interdiffusion at Polymer–Polymer Interfaces During Film Formation from High-*T* Latex Particles

Önder Pekcan, Istanbul Technical University

Critical Properties for Gelation in Free-Radical Cross-Linking Copolymerization

Oğuz Okay, TUBITAK MAM Research Center

A Numerical Study of the Two-Dimensional Potts Model via the Cluster Algorithm

Tarık Çelik, Hacettepe University

On Homogeneous Nucleation Theories from the Vapor Phase

Can F. Delale, Istanbul University

Microscopic Theory of Collective Excitations and Vortex Dynamics in Superfluid Systems

Ertuğrul Demircan, University of Texas

Real-Time Observation of Surface Structures During Epitaxial Growth and Phase Transition

Mehmet Erbudak, ETH Zurich

A Study of Quantum Bistability

Cemal Yalabık, Bilkent University

SHORT COMMUNICATIONS

Hardness of "Late" and Weakly Crosslinked Polymethylmetacrylate and its Relationship to Chain Statistics,

Güngör Gündüz, Middle East Technical University

A Novel Correction Method for the Steady State Fluorescence Technique to Study Film Formation from High- T Latex Particles

Murat Canpolat, Önder Pekcan, Istanbul Technical University

Fluorescence Technique for Studying the Sol-Gel Transition in the Free Radical Crosslinking by Copolymerization of Methyl Methacrylate and Ethylene Glycol Dimethacrylate

Önder Pekcan, ITU, Yaşar Yılmaz, ITU, Oğuz Okay, TUBITAK MAM Multicanonical Simulation of the Hopfield Model

Fatih Yaşar, Tarık Çelik, Hacettepe University

A Mean Field Model for Liquid Crystals near the NAC Point

Selami Salihoğlu, Hamit Yurtseven, ITU

A Theory of Melting of Molecular Crystals: The Complete Picture of Transition Temperatures

Şükru Özgan, Sütçü Imam University, Mustafa Keskin, Gaziosmanpaşa University

Mean Field Theory for the Ising Model Within Generalized Statistical Thermodynamics

Fevzi Büyükkılıç, Doğan Demirhan, Uğur Tırnaklı, Ege University

Calculation of a Phase Diagram for NH_4Br

Hamit Yurtseven, Selami Salihoğlu, Aytekin Tüblek, ITU

Sm A-Sm C^* Phase Transition in Liquid Crystals

Agah Bağçe, Hamit Yurtseven, Selami Salihoğlu, Ahmet T. Giz, ITU

Simulation of Four-Dimensional Ising Model on Creutz Cellular Automaton

Nevzat Aktekin, Gazi University

Simulation of Diffusion on a Cellular Automaton in Two-Dimensional Space

Mahmut Eken, Şeref Turan, TAEK, Nevzat Aktekin, Gazi University

Algebraic Approach to Calculating Lyapunov Exponents

Inanç Birol, Avadis Hacınhyan, Bosphorus University

Vortex Tubes, Local Anisotropy, and Anomalous Scaling

Ayşe Erzan, TUBITAK MAM, ITU

Generalized Fractal Dimensions on Coupled Map Lattices

Ayşe Gorbun, ITU, Ayşe Erzan, TUBITAK MAM, ITU

Analysis of Complex Time Series from Coupled Map Lattices

Sevgi Çıkçı, Ayşe Erzan, ITU

Model for Describing the Critical Behavior of Polymer Mixture Solutions

Mustafa Gençarslan, Erciyeş U., Mustafa Keskin, Gaziosmanpaşa U., Paul H. E. Meijer, The Catholic University of America

Ferromagnetism in Square Lattice with Two-Site Three-Spin Interaction and Uniaxial Anisotropy

H. Şevki Darendelioglu, Selcuk University

Stable, Metastable, and Unstable Solutions of a Spin-1 Ising System in the Presence of Magnetic Fields Due to the Dipole and Quadrupole Moments

Mustafa Keskin, Gaziosmanpasa University, Hüseyin Arslan, Sütçü Imam University

Equilibrium Properties of the Spin-1 Ising System with Bilinear, Biquadratic, and Odd Interactions

Camir Tebirci, Yüzüncü Yil U., Ali Kökçe, Süleyman Demirel U., Mustafa Keskin, Gaziosmanpasa U.

Equilibrium State of Binary Solids in the Vacancy Formalism

Servet Ekmekçi, Trakya University

Variational Approach for Phonon Renormalization Effects in Photoexcited Quantum Wires

Kaan Güven, Bilal Tanatar, Bilkent University

Dynamical Properties of Anharmonic Phonons at Low Temperatures

Hakan Türeci, Tuğrul Hakioglu, Bilkent University

The Effect of Interlayer Coupling on the Critical Temperature and Magnetic Field in High- T_c Superconductors

Metin Hüner, Enver Nakhmedov, ITU

Spin-Wave Resonance Study in Amorphous NiMn and NiMnPt Alloy Films

Yıldırhan Öner, ITU, Mustafa Özdemir, Marmara University, B. Aktaş, High Technology Institute, E. A. Harris, University of Sheffield

Electron Fluid Model for DC Size Effect in Metallic Films

Hamza Polat, Abant İzzet Baysal University, Mehmet Tomak, ODTU

The Role of Clustering for Antiferromagnetic Phase Transitions in γ -Mn Alloys

Hüseyin Gencer, Ali Bayri, Funda E. Atalay, İnönü University

Degenerate Magnetic Structures and Antiferromagnetic Phase Transitions in γ -Mn Alloys

Ali Bayri, Hüseyin Gencer, Funda E. Atalay, İnönü University

Magnetic Diffuse Scattering in the Frustrated Square Lattice

Funda E. Atalay, Ali Bayri, Hüseyin Gencer, İnönü University

Zn-Doped La_2CuO_4 from ^{139}La NQR Relaxation and MSR

Fügen Tabak, Hacettepe U., M. Corti, A. Rigamonti, P. Carretta, Pavia U., F. Licci, L. Raffo, Inst. MASPEC

Nonlinear Phenomena in the Symmetric Phase of Layered Ferroelectric Materials

Ferid Salayev, ITU

Those wishing to obtain the complete mailing address or the e-mail address of any one of the speakers may do so by sending a message to feerzan@cc.itu.edu.tr or writing to A. Erzan, Department of Physics, Faculty of Sciences and Letters, Istanbul Technical University, Maslak 80626, Istanbul, Turkey.