

17:00 Monday 26 December 2011

5. Traditional "MIRROR CONFERENCE"

Statistical and Condensed Matter Physics – Social Responsibility

- 17:00 **Societal Responsibility, Activism, and Scientists**
F. Keyman (Istanbul Policy Center at Sabancı U)
- 17:20 **Monte Carlo Studies of the Random-Bond Blume-Capel Model: Universality Aspects in Two and Three Dimensions**
A. Malakis (U of Athens), A.N. Berker (Sabancı U), N.G. Fytas (U Complutense Madrid), T. Papakonstantinou (U of Athens)
- 17:30 **Friction of Soft Matter at the Nano Scale**
A. Erbaş (Technical U München), R.R. Netz (Technical U München)
- 17:40 **Nonlinear Elasticity of Entangled Polymer Networks**
O.S. Sariyer (U of North Carolina), S. Panyukov (P.N. Lebedev Physics Institute, Russian Acad of Sciences), M. Rubinstein (U of North Carolina)
- 17:50 **Argand diagrams of the Complex Susceptibilities of a Metamagnetic System near CEP and DCP**
Y. Karaaslan (Dokuz Eylül U), G. Gülpınar (Dokuz Eylül U), M. Ağartıoğlu (Dokuz Eylül U)
- 18:00 **Critical Frequency Dependencies of the AC Total and Staggered Susceptibilities of the Spin-1/2 Ising Model with Competing Interactions**
M. Ağartıoğlu (Dokuz Eylül U), G. Gülpınar (Dokuz Eylül U), Y. Karaaslan (Dokuz Eylül U), E. Vatansever (Dokuz Eylül U)
- 18:10 **Accurate Monte Carlo Determination, via Finite-Size Scaling, of the Critical Behavior of the S=1 Ising Model on the (3,3,3,3,6) Archimedean Lattice**
G. Gülpınar (Dokuz Eylül U), A. Malakis (U of Athens), Y. Karaaslan (Dokuz Eylül U), T. Papakonstantinou (U of Athens), G. Arslan (Dokuz Eylül U)
- 18:20 **A Theoretical Study on the Structural Analysis of HgCl₂**
Z. Akdeniz (Piri Reis U), A.S. Özen (Piri Reis U), R. Ruberto (U of Messina), G. Pastore (U of Trieste), M. Tosi (Scuola Normale Superiore Piazza)
- 18:30 **A Close to Analytically Solvable Charge Density Wave Model**
M. Mungan (Bosphorus U), D. Kaspar (U of California Berkeley), F. Rezakhanlou (U of California Berkeley)
- 18:40 **Topological Properties of the Yeast Cell Cycle Network and its Analysis as an Asynchronously Updated Boolean Network**
N. Aral (Koç U), A. Kabakçioğlu (Koç U)
- 18:50 **What is Common between Cold Atoms and Hot DNA?**
A. Kabakçioğlu (Koç U), A. Bar (Weizmann Inst of Science), D. Mukamel (Weizmann Inst of Science)
- 19:00 **Embedded Atom Method Potential for Ni-Cu Alloys and its Applications for Ni, Cu growth on Cu(111)**
B. Onat (ITU), S. Durukanoğlu (Sabancı U)
- 19:10 **Spontaneous Formation of a Nanotube from a Square Ag Nanowire: An Atomistic View**
M. Konuk (ITU), S. Durukanoğlu (Sabancı U)
- 19:20 **A Qualitative Dynamical Model for T-cell Differentiation in the Thymus**
E. Şimşek (ITU), S. Durukanoğlu (Sabancı U)
- 19:30 **Interface-Roughening Phase Diagram of the Three-Dimensional Ising Model for All Interaction Anisotropies from Hard-Spin Mean-Field Theory**
T. Çağlar (Sabancı U), A.N. Berker (Sabancı U)
- 19:40 **Phase Separation and Charge-Ordered Phases of the d = 3 Falicov-Kimball Model at T>0: Temperature-Density-Chemical Potential Global Phase Diagram from Renormalization-Group Theory**
A.N. Berker (Sabancı U), O.S. Sariyer (U of North Carolina), M. Hinczewski (U of Maryland)
- 19:50 **Water: Do We Want it to be the Oil of the Future?**
S. Durukanoğlu (Sabancı U)
- 20:30 **Dinner at the Galata Bridge on the Golden Horn**