

International Conference on ΣΤΑΤΙΣΤΙΚΗ ΦΥΣΙΚΗ

7 - 11 July 2014

Sheraton Rhodes Resort, Rhodes - Greece

ΣΤΑΤΙΣΤΙΚΗ ΦΥΣΙΚΗ
Σ Φ
STATISTICAL PHYSICS

2014

Topics and Format

The Conference is organized in the following three Areas to cover all the Topics of Statistical Physics:

Area A: Foundations and Theoretical aspects of classical, quantum and relativistic statistical physics and thermodynamics. Mathematical aspects and methods, formalism, rigorous results, exact solutions, connections with the methods of high energy physics, string theory, mathematical statistics and information theory, classical, quantum and relativistic transport theory, Boltzmann and Fokker-Planck kinetics, nonlinear kinetics, dynamical systems, relaxation phenomena, random systems, pattern formation, fractal systems, solitons, chaotic systems, strongly correlated electrons, soft quantum matter, mesoscopic quantum phenomena, fractional quantum Hall effect, low dimensional quantum field theory, quantum phase transitions, quantum information and entanglement, power laws, etc.

Area B: Applications to Physical Systems: quantum systems, soft condensed matter, liquid crystals, plasmas, fluids, surfaces and interfaces, disordered and glassy systems, percolation, spin glasses, structural glasses, jamming, critical phenomena and phase transitions, fluids and interfacial phenomena, molecular and ionic fluids, metastable liquids, hydrodynamic instabilities, turbulence, growth processes, wetting, surface effects, films, crystals, confined systems, surfaces and interfaces, chemical reactions, cold atoms, etc.

Area C: Applications to non-Physical Systems: Interdisciplinary applications of statistical physics, networks and graphs, applied networks, biophysics, genomics, environments, climate and earth models, seismology, linguistics, econophysics, social systems, traffic flow, algorithmic problems, complex systems, etc.

The Conference is organized in Symposia/Sessions dealing with general aspects and applications.

Workshops: The following thematic workshops on

1. Anomalous Diffusion, 2. Kappa Plasmas, 3. Econophysics, 4. Sociophysics, 5. Complex Networks, 6. Biophysics, 7. Environmental Statistical Physics, 8. Quantum Computation and Quantum Information will cluster talks dedicated to special topics and will be organized as parallel events.

Poster Sessions: The Conference will also include some poster sessions.

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Pincus F. (UCSB, Santa Barbara, USA)
Polkovnikov A. (Boston University, USA)
Procaccia I. (Weizmann Institute, Rehovot, Israel)
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Ritort F. (Universitat de Barcelona, Spain)
Rodgers G. (University of Brunel, UK)
Saad D. (University of Aston, UK)
Sagawa T. (University of Tokyo, Japan)
San Miguel M. (IFISC, CSIC-UIB, Palma de Mallorca, Spain)

Sasamoto T. (Chiba University, Japan)
Schmid F. (Institute of physics, Staudingerweg, Germany)
Shizgal B. (The University of British Columbia, Vancouver, Canada)
Solomon S. (Hebrew University, Jerusalem, Israel)
Sornette D. (ETH, Zurich, Switzerland)
Spagnolo B. (University of Palermo, Italy)
Swan K. (Asia Pacific Center for Theoretical Physics, Korea)
Talkner P. (University of Augsburg, Germany)
Täuber U.C. (Virginia Tech, USA)
Telo da Gama M.M. (Universidade de Lisboa, Portugal)
Thurner S. (Medical University of Vienna, Austria)
Touchette H. (Nat. Inst. Theor. Physics, Matieland, South Africa)
Tu Y. (IBM, Watson Research Center, New York, USA)
Turner M. (Dep. Phys. & Centre Compl. Scie., University of Warwick, UK)
Ván P. (MTA Wigner Research Centre for Physics, Hungary)
Wang Q.A. (ISMANS, Université du Maine, Le Mans, France)
Wio H.S. (University of Cantabria, Santander, Spain)
Włodarczyk Z. (University of Kielce, Poland)
Yeomans J. (Oxford University, UK)
Yuste S.B. (Universidad Extremadura, Spain)
Zagoskin A. (Loughborough University, UK)
Zdeborova L. (Institut de Physique Théorique, CEA/SACLAY, France)

Invited Speakers

Alcaraz F. (University of São Paulo, Brazil)
Barabasi A.-L. (Northeastern University, USA)
Bertotti M.L. (Free University of Bozen, Italy)
Biro T.S. (MTA Wigner Research Centre for Physics, Budapest, Hungary)
Blumen A. (University of Freiburg, Germany)
Chavanis P.-H. (Laboratoire de Physique Théorique de Toulouse, France)
Deo N. (Delhi University, India)
Dietrich S. (Max Planck Institute, Stuttgart, Germany)
Di Stefano B. (Nuptek Systems Ltd, Toronto, Canada)
Field T.R. (McMaster University, Hamilton, Canada)
Gammaitoni L. (Università di Perugia, Italy)
Gitterman M. (Bar Ilan University, Israel)
Grigolini P. (University of North Texas, USA)
Gudowska-Nowak E. (Jagiellonian University, Poland)
Gupte N. (Indian Institute of Technology, Chennai, India)
Guttmann A.J. (University of Melbourne, Australia)
Hansen A. (Univ. Science and Technology, Trondheim, Norway)
Helbing D. (ETH Zurich, Switzerland)
Jafari G. (Shahid Beheshti University, Tehran, Iran)
Kaski K. (Aalto University, Finland)
Kazienko P. (Wroclaw University of Technology, Poland)
Kourakis Y. (Queen's University Belfast, Ireland)
Kutner R. (University of Warsaw, Poland)
Lawniczak A. (University of Guelph, Guelph, Canada)
Lee M.H. (University of Georgia, USA)
Leyvraz F. (Instituto de Ciencias Físicas, UNAM, Mexico)
Livadiotis G. (Southwest Research Institute, San Antonio, USA)
Luczka J. (University of Silesia, Poland)
Lushnikov A. (Russian Academy of Science, Moscow, Russia)
Lutsko J.F. (Université Libre de Bruxelles, Belgium)
Manneville P. (Ecole Polytechnique, France)
Matsuzoe H. (Nagoya Institute of Technology, Japan)
Mendez J.F. (University of Aveiro, Portugal)
Naudts J. (University of Antwerpen, Belgium)
Nechaev S. (Université Paris-Sud, France)
Neda Z. (Babes-Bolyai University, Cluj-Napoca, Romania)
Niven R. (University of New South Wales, Australia)
Nowak M.A. (Jagellonian University, Poland)
Ohara A. (Osaka University, Japan)
Pearce P.A. (University of Melbourne, Australia)
Pennetta C. (University of Lecce, Italy)
Pistone G. (Collegio Carlo Alberto, Italy)
Prellberg T. (Queen Mary University of London, UK)
Qureshi M.N.S. (GC University, Pakistan)
Rapisarda A. (University of Catania, Italy)
Rittenberg V. (University of Bonn, Germany)
Rossi P. (University of Pisa, Italy)
Ruseckas J. (Vilnius University, Lithuania)
Savvidis G. (NCSR Demokritos, Greece)
Shikano Y. (Institute for Molecular Science, Okazaki, Japan)
Spicka V. (Institute of Physics ASCR, Czech Republic)
Spineanu F. (Nat. Inst. Laser, Plasma & Rad. Phys., Bucharest, Romania)
Tadic B. (Jozef Stefan Institute, Slovenia)
Toroczkai Z. (University of Notre Dame, USA)
Tsironis G. (University of Crete, Heraklion, Greece)
Valenti D. (University of Palermo, Italy)
Wada T. (Ibaraki University, Japan)
Wilks G. (National Centre for Nuclear Research, Warszawa, Poland)
Yoon P. (University of Maryland, USA)
Zotos X. (University of Crete, Heraklion, Greece)

Annual Meeting of EPS-SNP

The Annual Meeting of the EPS-SNP (European Physical Society - Statistical and Nonlinear Physics Division) will be held during the Conference.