CONFERENCE PROGRAM

MONDAY, JULY 11

	Plenary	Welcome Addresses & Opening Ceremony (Room A)	Monday 11
10.30 - 10.35	**G. Kaniadakis**	Conference Chairman	**Chair**
10.35 - 10.40		Cyprus Ministry of Education	**A. Carbone**
10.40 - 10.45		Major of Larnaca	
10.45 - 10.50		European Physical Society - Nonlinear and Statistical Physics Division Chair	
10.50 - 11.00		SigmaPhi Round Table Nomination	
11.00 - 12.30		Round Table "Future Challenges & Perspectives of Statistical Physics"	
12.30 - 12.45		**Group Photo**	
13.00 - 15.00		Lunch	

	Workshop	MATHEMATICAL PHYSICS (Room B)	Monday 11
15.00 - 15.35	**V. Dragovic**	Algebro-geometric approach to Yang-Baxter equation	**Chair**
15.40 - 16.15	**R. Fernandes**	Non-commutative integrable systems	**P. Damianou**
16.20 - 16.55	**A. Veselov**	Classical and quantum generalisations of Dirac magnetic monopole	
17.00 - 17.30		Coffee break	
17.30 - 17.55	**P. Ruiz Gordoa**	Two types of auto-Backlund transformation for integrable partial differential....	**Chair**
18.00 - 18.25	**D. Ellinas**	Classical Randomness Induced Transitions in Quantum Walks	**R. Fernandes**
18.30 - 18.55	**A. Pickering**	On the nesting of Painleve hierarchies	

	Workshop	COMPLEX NETWORKS (Room C)	Monday 11
15.00 - 15.35	**Z. Burda**	Maximal entropy random walk	**Chair**
15.40 - 16.15	**A. Fronczak**	International trade network: a statistical mechanics perspective	**G. Caldarelli**
16.20 - 16.55	**V. Constantoudis**	Network analysis of rough surfaces	
17.00 - 17.30		Coffee break	
17.30 - 17.55	**D.S. Lee**	Return-to-origin probability in scale-free networks: crossover behaviors and....	**Chair**
18.00 - 18.25	**A. Mozeika**	Exact solution of Boolean dynamics with random connections, thermal noise...	**L. Leuzzi**
18.30 - 18.55	**M. Rajkovic**	Statistical Mechanics of Simplicial Complexes:Combinatorial Laplacian and	
19.00 - 19.25	**S. Caracciolo**	A theory for Morphogenesis in the Deterministic Abelian Sandpile	

	Workshop	ECONOPHYSICS and SOCIOPHYSICS (Room D)	Monday 11
15.00 - 15.35	**G. Ballot**	Love thy neighbor. A firm based multi-country model with intenational	**Chair**
15.40 - 16.15	**N. Shnerb**	Names, terror, wealth and politics: the role of fortune in complex systems	**S. Solomon**
16.20 - 16.55	**S. Thurner**	Entropy of non-ergodic systems - A derivation from first principles	
17.00 - 17.30		Coffee break	
17.30 - 17.55	**V. Gontis**	Power-law statistics of bursts generated by the nonlinear stochastic	**Chair**
18.00 - 18.25	**M. Cristelli**	There Is More Than a Power Law in Zipf	**N. Shnerb**
18.30 - 18.55	**T. Lapinski**	Limit theorem leading to Bose-Einstein, Boltzmann, Zipf Law and application	

	Workshop	NANOPHYSICS (Room E)	Monday 11
15.00 - 15.35	**E. Andrei**	Probing Dirac fermions in graphene: from Landau levels to fractional quantum..	**Chair**
15.40 - 16.15	**G. Montambaux**	Motion and merging of Dirac points in two-dimensional crystals	**F.V. Kusmartsev**
16.20 - 16.55	**E. Sonin**	Conductance, shot noise, and Klein tunneling in ballistic graphene	
17.00 - 17.30		Coffee break	
17.30 - 17.55	**L. Chalmers**	Semi-classical analysis of Klein tunneling through a smooth barrier	**Chair**
18.00 - 18.25	**F. Aliev**	Conductance and noise in fully epitaxial magnetic tunnel junctions	**K. Kugel**
18.30 - 18.55	**P. Talkner**	Quantum fluctuation relations	
19.00 - 19.30	**L. Gammaitoni**	Fluctuations energy harvesting with nonlinear oscillators	
19.30 - 19.55	**V. Constantoudis**	Sidewall roughness and dimensional variability of features on nanoscale: The....	

	Workshop	BIOPHYSICS (Room F)	Monday 11
15.00 - 15.35	**A. Laio**	Mechanical self-organization of growing acting networks	**Chair**
15.40 - 16.15	**M. Turner**	Non-local models of swarming	**F. Seno**
16.20 - 16.55	**C. Brackley**	Limited Resources in an asymmetric exclusion process: A model of protein ….	
17.00 - 17.30		Coffee break	
17.30 - 17.55	**G. Gonnella**	Self-propelled particles under shear	**Chair**
18.00 - 18.25	**C. Deroulers**	Collective behaviour of cell assemblies: Understanding the microscopic….	**I. Pagonabarraga**
18.30 - 18.55	**M. Zagórski**	Model gene regulatory networks under mutation-selection balance	
19.00 - 19.30	**C.-K. Hu**	Relaxation and aggregation of polymer chains and their biological implications	

TUESDAY, JULY 12

MAIN CONFERENCE (Room A) — Tuesday 12

08.30 - 09.05	**H.J. Herrmann**	Watersheds, bridges and explosive percolation	**Chair**
09.10 - 09.45	**A. Hansen**	Effective Permeability Scaling in Immiscible Two-Phase Flow in Porous Media	**D. Hristopulos**
09.50 - 10.25	**C. Masoller**	Inferring long memory processes in the climate network via ordinal pattern….	
10.30 - 11.00		Coffee break	
11.00 - 11.35	**S. Chapman**	Order and control parameters in driven, dissipating systems- parallels from ….	**Chair**
11.40 - 12.15	**D. Hristopulos**	On the use of the Weibull distribution as a model for the distribution of …..	**H.J. Herrmann**
12.20 - 12.55	**P. de Anna**	Upscaling of transport in correlated non Gaussian velocity fields: ….	
13.00 - 15.00		Lunch	

MAIN CONFERENCE (Room B) — Tuesday 12

08.30 - 09.05	**G.P. Beretta**	Steepest-entropy-ascent non-equilibrium dynamics is thermodynamically ….	**Chair**
09.10 - 09.45	**R. Kosloff**	Quantum Refrigerators: The quest for the absolute zero	**S. Abe**
09.50 - 10.25	**K. Lindenberg**	Finite Time Thermodynamics of a Single-Level Quantum Dot	
10.30 - 11.00		Coffee break	
11.00 - 11.35	**R.S. Johal**	Bayesian perspective on maximum work characteristics of quantum heat ….	**Chair**
11.40 - 12.15	**S. Abe**	Gauge-theoretic structure in quantum thermodynamics	**G.P. Beretta**
12.20 - 12.55	**J. Pesek**	Quasistatic heat processes in mesoscopic non-equilibrium systems	
13.00 - 15.00		Lunch	

MAIN CONFERENCE (Room C) — Tuesday 12

08.30 - 09.05	**H. Taitelbaum**	Persistence in reactive-wetting interfaces	**Chair**
09.10 - 09.45	**D.A. Stariolo**	Nematic order of interfaces in systems with competing interactions	**A. Hansen**
09.50 - 10.25	**T. Hewett**	Extraordinary Magnetoresistance: Sensing the future	
10.30 - 11.00		Coffee break	
11.00 - 11.35	**M. Vasin**	Gauge theory of glass transition	**Chair**
11.40 - 12.15	**M. Paoluzzi**	Dynamic of the secondary processes in a mean-?eld exactly solvable model ….	**G. Montambaux**
12.20 - 12.55	**U. Ferrari**	Spin-glass model and inverse phase transition	
13.00 - 15.00		Lunch	

MAIN CONFERENCE (Room D) — Tuesday 12

08.30 - 09.05	**A. Lindenberg**	Anomalous Diffusion and Morphogen Gradients	**Chair**
09.10 - 09.45	**S. Chapman**	Anomalous diffusion and characterizing the fluctuating fields of finite sized ….	**I. Eliazar**
09.50 - 10.25	**N. Watkins**	Volatility clustering, 'mild' multifractals and the Kesten process	
10.30 - 11.00		Coffee break	
11.00 - 11.35	**I. Eliazar**	Randomized Central Limit Theorems	**Chair**
11.40 - 12.15	**R. Voituriez**	Normal and anomalous transport in transcription kinetics	**A. Lindenberg**
12.20 - 12.55	**B. Meyer**	Universality classes of first-passage time distribution in confined media	
13.00 - 15.00		Lunch	

Workshop — MATHEMATICAL PHYSICS (Room B) — Tuesday 12

15.00 - 15.35	**P. Damianou**	Intermediate Toda Systems	**Chair**
15.40 - 16.15	**F. Magri**	Some remarks on Frobenius Manifolds	**C. Sophocleous**
16.20 - 16.55	**O. Ragnisco**	Integrable Maps from classical Gaudin models	
17.00 - 17.30		Coffee break	
17.30 - 17.55	**St. Charalambides**	so(p,q) Toda Lattice	**Chair**
18.00 - 18.25	**Z. Tsvir**	A description of the evolution of quantum states by means of the kinetic equation	**A. Veselov**
18.30 - 18.55	**A. Karlis**	A consistent approach for the treatment of Fermi acceleration in time ….	

	Workshop	COMPLEX NETWORKS (Room C)	Tuesday 12
15.00 - 15.35	**L. Leuzzi**	The Levy lattice: a new kind of small world lattice and its implementation to ….	**Chair**
15.40 - 16.15	**A. Astillero**	Temporal evolution of a granular gas in the uniform longitudinal flow. A ….	**J.W. Lee**
16.20 - 16.55	**D. Cellai**	Critical phenomena in heterogeneous k-core percolation	
17.00 - 17.30		Coffee break	
17.30 - 17.55	**J.W. Lee**	Network Properties of Bipartite Ecological Networks	**Chair**
18.00 - 18.25	**J. Ochab**	Dynamics of Maximal Entropy Random Walk: Solvable Cases	**V. Constantoudis**
18.30 - 18.55	**S. Wieland**	Steady-State Topologies of Adaptive Networks	

	Workshop	ECONOPHYSICS & SOCIOPHYSICS (Room D)	Tuesday 12
15.00 - 15.35	**M. Milakovic**	Statistical euilibrium and the process of competition	**Chair**
15.40 - 16.15	**A. Vignes**	Modeling urban housing market dynamics: can the socio-spatial	**S. Thurner**
16.20 - 16.55	**S. Solomon**	Economic Complexity, Crisis and Recovery	
17.00 - 17.30		Coffee break	
17.30 - 17.55	**A. Carbone**	Self-Similarity of Higher-Order Moving Averages	**Chair**
18.00 - 18.25	**B. Cabella**	Data Collapse, Scaling Functions and New Analytical Solutions of Generalized….	**L. Pietronero**
18.30 - 18.55	**G. Bormetti**	Multiplicative noise, moment scaling, and fast convolution	
19.00 - 19.25	**A. Zaccaria**	Universal Relation between Skewness and Kurtosis in Complex Dynamics	

	Workshop	NANOPHYSICS (Room E)	Tuesday 12
15.00 - 15.35	**M. Fromhold**	The interplay between ultracold atoms, semiconductor surfaces and quantum….	**Chair**
15.40 - 16.15	**A. Balanov**	Effects of temperature on charge transport in semiconductor superlattice in….	**E. Andrei**
16.20 - 16.55	**F. Kusmartsev**	A stable form of two-dimensional crystals: is graphene a glass?	
17.00 - 17.30		Coffee break	
17.30 - 18.00	**N. Janson**	Automatic and unsupervised discovery and recognition of patterns by a….	**Chair**
18.00 - 18.30	**M. Milosevic**	Two-band superconductors in Ginzburg-Landau theory	**M. Saarela**
18.30 - 19.00	**M. Telo da Gama**	From molecules to network fluids: Condensation or percolation?	
19.00 - 19.30	**G. Kharlamov**	Surface tension calculations of nanodrops and Thomas Hewett, extraordinary ….	
19.30 - 19.55	**T. J. Arruda**	Electromagnetic field energy within concentric infinite cylinders at oblique incidence ….	

	Workshop	BIOPHYSICS (Room F)	Tuesday 12
15.00 - 15.35	**E. Domany**	Complex dynamics of transcriptional response: how do cells get on the fast….	**Cheir**
15.40 - 16.15	**E. Carlon**	Anomalous dynamics in DNA hairpin closing times	**M. Lassig**
16.20 - 16.55	**Y. Kafri**	Target Location on DNA	
17.00 - 17.30		Coffee break	
17.30 - 17.55	**V. Morozov**	Generalized Model of Polypeptide Chain (GMPC) and the helix-coil transition….	**Chair**
18.00 - 18.25	**A. Kabakcioglu**	Writhe and twist in DNA circles and their melting behavior	**Y. Kafri**
18.30 - 18.55	**D. Valenti**	Monte Carlo study of external noise influence on polymer translocation	
19.00 - 19.25	**J. Karschau**	Optimal Origin Placement in DNA Replication	

19.30 - 22.00 **Board Meeting of the NSP-EPS**
Nonlinear and Statistical Physics Division of the European Physical Society

WEDNESDAY, JULY 13

MAIN CONFERENCE (Room A) — **Wednesday 13**

08.30 - 09.05	**M.A. Nowak**	Multiplication and addition laws for large random matrices	**Chair**
09.10 - 09.45	**A.Y. Abul-Magd**	κ-deformed random matrix theory based on Kaniadakis entropy	**P. Harremoës**
09.50 - 10.25	**M. Trovato**	A proper nonlocal formulation of the Quantum Maximum Entropy Principle in ….	
10.30 - 11.00		Coffee break	
11.00 - 11.35	**P. Harremoës**	Exergy and information	**Chair**
11.40 - 12.15	**A. Ohara**	Conformal geometry of escort probabilities and its application to Voronoi….	**M.A. Nowak**
12.20 - 12.55	**G. Pistone**	Algebraic Statistics and Information Geometry of Reversible Markov Chains	
13.00 - 15.00		Lunch	

MAIN CONFERENCE (Room B) — **Wednesday 13**

08.30 - 09.05	**S. Ruffo**	Self-consistent steady states in Hamiltonian mean field dynamics	**Chair**
09.10 - 09.45	**A. Robledo**	Stationary states of the Hamiltonian mean-field model and a renewal ….	**S. Fauver**
09.50 - 10.25	**P.-H. Chavanis**	Recent results on long-range interacting systems: the example of the HMF model	
10.30 - 11.00		Coffee break	
11.00 - 11.35	**B. Marcos**	Relaxation of quasi-stationary states in long range interacting systems and….	**Chair**
11.40 - 12.15	**A. Giacometti**	Self-Assembly mechanism in colloids	**S. Ruffo**
12.20 - 12.55	**A. Gordillo-Guerrero**	Characterizing a strong first order phase transition on a 3D diluted system	
13.00 - 15.00		Lunch	

MAIN CONFERENCE (Room C) — **Wednesday 13**

08.30 - 09.05	**S. Sarkar**	Superstatistics in Models of Space-Time foam in String Theory	**Chair**
09.10 - 09.45	**Z. Wlodarczyk**	The imprints of superstatistics in multiparticle production processes	**C. Beck**
09.50 - 10.25	**P. Jizba**	Superstatistics approach to Special and Doubly Special Relativity	
10.30 - 11.00		Coffee break	
11.00 - 11.35	**C. Beck**	Statistical mechanics of the vacuum	**Chair**
11.40 - 12.15	**P. Ván**	Kinetic theory and relativistic thermodynamics	**S. Sarkar**
12.20 - 12.55	**D. Mostacci**	Quantum relativistic distribution function for bosons and fermions	
13.00 - 15.00		Lunch	

MAIN CONFERENCE (Room D) — **Wednesday 13**

08.30 - 09.05	**I. Procaccia**	The elusive length scale characterizing the glass transition	**Chair**
09.10 - 09.45	**M. Magdziarz**	Ergodic properties of anomalous diffusion	**S. Chapman**
09.50 - 10.25	**R. Metzler**	Random motion in complex systems, ergodicity breaking, and single-particle….	
10.30 - 11.00		Coffee break	
11.00 - 11.35	**A. Santos**	Velocity cumulants and correlations in a granular gas of rough spheres	**Chair**
11.40 - 12.15	**J. Talbot**	Kinetics of a frictional granular motor	**P.H Chavanis**
12.20 - 12.55	**R.J. Wijngaarden**	Experimental investigations of power laws and self organized criticality in….	
13.00 - 15.00		Lunch	

Workshop — **MATHEMATICAL PHYSICS (Room B)** — **Wednesday 13**

15.00 - 15.35	**T. Koide**	Derivation of Navier-Stokes equation using Stochastic variational method	**Chair**
15.40 - 16.15	**F. Caltagirone**	On the Decay Exponents of Mode Coupling Theory	**M. Milosevic**
16.20 - 16.55	**K. Lewandowska**	Hyperbolic subdiffusive impedance	
17.00 - 17.30		Coffee break	
17.30 - 17.55	**P. Paradisi**	Diffusion scaling analysis based on renewal theory: an application to …	**Chair**
18.00 - 18.25	**T. Motoike**	Hierarchical Structures of Periodic Orbits and Multifractal Structure of Fully …..	**T. Koide**
18.30 - 18.55	**M. Milosevic**	Two-band superconductors in Ginzburg-Landau theory	

	Workshop	COMPLEX NETWORKS (Room C)	Wednesday 13
15.00 - 15.35	**A. Gabrielli**	Ranking and clustering countries and their products: a network analysis	**Chair**
15.40 - 16.15	**G. Tsironis**	Discrete nonlinear Schrödinger equation dynamics in complex networks	**S. Melnik**
16.20 - 16.55	**J. G. Gardenes**	Explosive Synchronization Transition in Complex Networks	
17.00 - 17.30		Coffee break	
17.30 - 17.55	**C. Cianci**	Non Gaussian corrections and finite size effects in a model of autocatalytic….	**Chair**
18.00 - 18.25	**S. Melnik**	Multi-stage cascades	**G. Tsironis**
18.30 - 18.55	**G. Palla**	Rotated multifractal network generator	

	Workshop	ECONOPHYSICS & SOCIOPHYSICS (Room D)	Wednesday 13
15.00 - 15.35	**H. Takayasu**	Temperature dependence of consumption behaviors and optimization of sales…	**Chair**
15.40 - 16.15	**G. Stanley**	Economic fluctuations and statistical physics: Quantifying extremely rare….	**G. Caldarelli**
16.20 - 16.55	**A. Stella**	How to model asset dynamics on the basis of dependence, anomalous scaling….	
17.00 - 17.30		Coffee break	
17.30 - 17.55	**F. Kusmartsev**	Statistical Mechanics of Economics	**Chair**
18.00 - 18.25	**L. Kristoufek**	Multifractal Height Cross-Correlation Analysis	**G. Stanley**
18.30 - 18.55	**D. Delpini**	Minimal model of financial stylized facts	

	Workshop	NANOPHYSICS (Room E)	Wednesday 13
15.00 - 15.35	**S. Kravchenko**	Metal-Insulator Transition in two-dimensional electron gas	**Chair**
15.40 - 16.15	**M. Saarela**	Nanoscale structures and giant Nernst effect below the pseudogap in under….	**G. Montambaux**
16.20 - 16.55	**A. Zagoskin**	Quantum engineering: From artificial atoms to quantum metamaterials	
17.00 - 17.30		Coffee break	
17.30 - 17.55	**A. Klushin**	Tunable oscillators based on Josephson junctions	**Chair**
18.00 - 18.25	**A. Sanchez**	Modelling the effect of magnetic dots on the transport and magnetic ….	**A. Balanov**
18.30 - 18.55	**S. Charfi-Kaddour**	Inhomogeneous superconductivity: effect of disorder on Carbon nanotubes….	

	Workshop	BIOPHYSICS (Room F)	Wednesday 13
15.00 - 15.35	**V. Muñoz**	Downhill Protein Folding Peculiarities of Living in a World without Barriers	**Cheir**
15.40 - 16.15	**A. Irbäck**	Monte Carlo studies of protein aggregation	**A. Laio**
16.20 - 16.55	**B. Zagrovic**	Microscopic analysis of protein oxidative damage: effect of carbonylation on ….	
17.00 - 17.30		Coffee break	
17.30 - 17.55	**P. Cossio**	Exploring the universe of protein structures beyond the Protein Data Bank	**Chair**
18.00 - 18.25	**A. Trovato**	A new physics-based approach to model quality assessment of protein …..	**A. Irbäck**
18.30 - 18.55	**P. Tamamis**	Molecular Dynamics Simulations Tackle the Species Specificity of the ….	

20.30 - 23.30

Gala Dinner

During the dinner the FuturICT FET Flagship Program of the European Commission will be presented to the SigmaPhi Community

THURSDAY, JULY 14

MAIN CONFERENCE (Room A) — Thursday 14

08.30 - 09.05	**G. Parisi**	Theoretical advances in off-equilibrium behavior	**Chair**
09.10 - 09.45	**H.S. Wio**	Recent developments on the KPZ equation	**J.P. Boon**
09.50 - 10.25	**F. Pétrélis**	Effects of multiplicative noise on instabilities	
10.30 - 11.00		Coffee break	
11.00 - 11.35	**G.K. Er**	The Probabilistic Solutions of Some Large Nonlinear Stochastic Dynamic ….	**Chair**
11.40 - 12.15	**X.-X. Guo**	The Probabilistic Solutions of Stochastic Oscillators with Even Nonlinearity in …..	**H.S. Wio**
12.20 - 12.55	**F. Raischel**	Diffusion Eigensystems of Stochastic Processes	
13.00 - 15.00		Lunch	

MAIN CONFERENCE (Room B) — Thursday 14

08.30 - 09.05	**S. Fauve**	Random reversals of the magnetic field generated by turbulent flows	**Chair**
09.10 - 09.45	**A. Alexakis**	On-Off instability in a dynamo flow	**H. Touchette**
09.50 - 10.25	**J. Vanneste**	Passive-scalar decay in chaotic flows	
10.30 - 11.00		Coffee break	
11.00 - 11.35	**F. De los Santos**	Renormalisation group determination of the order of the DNA denaturation….	**Chair**
11.40 - 12.15	**G. Delfino**	New universal results for two-dimensional percolation. Connectivities and ….	**E. Marinari**
12.20 - 12.55	**S.N. Dorogovtsev**	Why the "explosive percolation" transition is actually continuous	
13.00 - 15.00		Lunch	

MAIN CONFERENCE (Room C) — Thursday 14

08.30 - 09.05	**C. Tsallis**	Exploring the region where the hypothesis validating Boltzmann-Gibbs ….	**Chair**
09.10 - 09.45	**F. Nobre**	Nonlinear Fokker-Planck Equations with Competing Diffusive Terms: Solutions….	**A. Robledo**
09.50 - 10.25	**T. Oikonomou**	Is Shannon entropy always additive?	
10.30 - 11.00		Coffee break	
11.00 - 11.35	**A. Rodríguez**	A generalization of the cumulant expansion. Application to a scale-invariant ….	**Chair**
11.40 - 12.15	**T. Kosztolowicz**	Nonextensive entropy approach versus fractional model to describe….	**C. Tsallis**
12.20 - 12.55	**G. Livadiotis**	Thermostatistics of plasmas in nonequilibrium stationary states	
13.00 - 15.00		Lunch	

MAIN CONFERENCE (Room D) — Thursday 14

08.30 - 09.05	**J. Luczka**	Distance between states of an open quantum system	**Chair**
09.10 - 09.45	**M. Kastner**	Diverging equilibration times in long-range quantum spin models	**B. Spagnolo**
09.50 - 10.25	**J. Naudts**	Supersymmetry in models of strongly correlated electrons	
10.30 - 11.00		Coffee break	
11.00 - 11.35	**B. Spagnolo**	Relaxation phenomena in classical and quantum systems	**Chair**
11.40 - 12.15	**S. Deffner**	Nonequilibrium entropy production for open quantum systems	**J. Luczka**
12.20 - 12.55	**M. Saikhanov**	Quantization Of Nonequilibrium Nonstationary System	
13.00 - 15.00		Lunch	

Workshop — ECONOPHYSICS & SOCIOPHYSICS (Room B) — Thursday 14

15.00 - 15.35	**M. Ifti**	Electoral Systems and Distribution of Votes	**Chair**
15.40 - 16.15	**K. Yamada**	Collective human behavior in the cyber space communication	**G. Ballot**
16.20 - 16.55	**R. Kenna**	The sociophysics of collaborative research: Critical mass and the dependence….	
17.00 - 17.30		Coffee break	
17.30 - 17.55	**W. Li**	Reinforcement Learning in Complementarity Game and Population Dynamics	**Chair**
18.00 - 18.25	**E.-O. Lungu**	Patterns in the occupational mobility networks of the higher education….	**M. Ifti**
18.30 - 18.55	**N. Destefano**	Unification of the psychophysical laws and the additive property of the….	
19.00 - 19.25	**D.Y. Kenett**	Amplification of uniformity and multiformity in the stressed global market	

	Workshop	ECONOPHYSICS & SOCIOPHYSICS (Room D)	Thursday 14
15.00 - 15.35	**L. Pietronero**	Complexity from Natural to Socio-Economic Sciences	**Chair**
15.40 - 16.15	**A. Nowak**	Social dynamics of financial markets	**H. Takayasu**
16.20 - 16.55	**P. Argyrakis**	Worldwide spreading of economic crises	
17.00 - 17.30		Coffee break	
17.30 - 17.55	**E. Piotrowski**	Binary bets revisited: physicist point of view	**Chair**
18.00 - 18.25	**G. Livan**	The fine structure of spectral properties for random correlation matrices: an ….	**Z. Burda**
18.30 - 18.55	**T. Tokar**	Multi-agent analysis of financial data	
19.00 - 19.25	**E.-O. Lungu**	Power law and scaling analysis for the Bucharest Stock Exchange	

	Workshop	COMPLEX NETWORKS (Room C)	Thursday 14
15.00 - 15.35	**J.F. Mendes**	Bootstrap Percolation on Complex Networks	**Chair**
15.40 - 16.15	**T. Aste**	A network approach to capture both local clustering and global organization in….	**W. Miura**
16.20 - 16.55	**E. Sloutskin**	Long-range orientational correlations and rotational anisotropy in random….	
17.00 - 17.30		Coffee break	
17.30 - 17.55	**L. Lacasa**	Feigenbaum graphs: a complex network perspective of chaos	**Chair**
18.00 - 18.25	**W. Miura**	Statistical properties of Japanese business firm network and a probabilistic….	**T. Aste**
18.30 - 18.55	**F. Perez-Reche**	Synergy in complex spreading processes on networks	

	Workshop	NANOPHYSICS (Room E)	Thursday 14
15.00 - 15.35	**Y.W. Park**	Carbon nano-electronics - The super M conductivity and more	**Chair**
15.40 - 16.15	**K. Hirata**	Vortices in superconducting nano-networks with anti-dot arrays	**J.-M. Triscone**
16.20 - 16.55	**K. Kadowaki**	THz radiation from superconducting nano-sources	
17.00 - 17.30		Coffee break	
17.30 - 17.55	**V. Kabanov**	Current-voltage characteristic of narrow superconducting wires: bifurcation….	**Chair**
18.00 - 18.25	**N. Combe**	Nanoscale self-organization using standing surface acoustic waves	**E. Sonin**
18.30 - 18.55	**D. Elford**	Matryoshka locally resonant sonic crystal	
19.00 - 19.25	**U. Marini B. M.**	Dynamic approach to flowing liquids in confined systems	
19.30 - 19.55	**M. Cirillo**	Tunnelling and weak localization in carbon nanotube bundles aggregates	

	Workshop	BIOPHYSICS (Room F)	Thursday 14
15.00 - 15.35	**U. Alon**	Design principles of biological circuits	**Cheir**
15.40 - 16.15	**M. Lässig**	Survival of the Fattest, the Flattest, or the Fastest? The role of fluctuations in ….	**E. Carlon**
16.20 - 16.55	**I. Pagonabarraga**	Transport and pattern formation in internally actively driven systems	
17.00 - 17.30		Coffee break	
17.30 - 17.55	**G. Aquino**	Optimal receptor-cluster size determined by intrinsic and extrinsic noise	**Chair**
18.00 - 18.25	**R. Guantes**	Trade-offs and noise tolerance in signal detection by genetic networks	**B. Zagrovic**
18.30 - 18.55	**L.R. Zastrow**	The sarcomere as a structured ensemble of molecular motors	
19.00 - 19.25	**K. Lee**	Dynamics of neural network with depressing synapses: synchronization, global ….	

FRIDAY, JULY 15

MAIN CONFERENCE (Room A) — Friday 15

08.30 - 09.05	**J.P. Boon**	Generalized Reaction-Diffusion: a microscopic approach	**Chair**
09.10 - 09.45	**H. Touchette**	Limitations of statistical mechanics: Hints from large deviation theory	**E. Curado**
09.50 - 10.25	**P. Tempesta**	Group Entropies	
10.30 - 11.00		Coffee break	
11.00 - 11.35	**E. Curado**	Nonlinear Fokker-Planck equations, entropies and applications	**Chair**
11.40 - 12.15	**M.P. Leubner**	Nonextensive network statistics and hierarchically nested structure scales	**F. Nobre**
12.20 - 12.55	**J. Naudts**	The exponential family in statistical physics and beyond	
13.00 - 15.00		Lunch	

MAIN CONFERENCE (Room B) — Friday 15

08.30 - 09.05	**E. Marinari**	Metabolic networks: a thermodynamical analysis based on the Von Neumann….	**Chair**
09.10 - 09.45	**J.-M. Triscone**	New Phenomena at Oxide Interfaces	**J. Naudts**
09.50 - 10.25	**K. Mallick**	Applications of Non-Equilibrium Relations to Biophysics	
10.30 - 11.00		Coffee break	
11.00 - 11.35	**S. Stramaglia**	Nonlinear analysis of EEG from migraine brains	**Chair**
11.40 - 12.15	**P. Paradisi**	Fractal intermittency in integrated neural dynamics	**H. Fogedby**
12.20 - 12.55	**D. Foster**	Critical behaviour of the generalised two-dimensional self-avoiding trails….	
13.00 - 15.00		Lunch	

MAIN CONFERENCE (Room C) — Friday 15

08.30 - 09.05	**J.M. Parrondo**	Dissipation and irreversibility in stationary trajectories	**Chair**
09.10 - 09.45	**H. Fogedby**	Large deviation functions for systems coupled to two thermostats	**E. Gudowska-Nowak**
09.50 - 10.25	**C. Antoine**	Nonlinear hydrodynamic corrections to exothermic chemical wave fronts	
10.30 - 11.00		Coffee break	
11.00 - 11.35	**E. Gudowska-Nowak**	Dynamical response of systems driven by Lévy-type noises	**Chair**
11.40 - 12.15	**G. Pavlov**	Nonlinear response theory of non-ideal systems	**J.M. Parrondo**
12.20 - 12.55	**M. Clerc**	Coated solitons	
13.00 - 15.00		Lunch	

MAIN CONFERENCE (Room D) — Friday 15

08.30 - 09.05	**T. Arimitsu**	On a new interpretation of turbulence via the scaling relation of A&A model ….	**Chair**
09.10 - 09.45	**D. Hristopulos**	Langevin Equations, Random Fields and Applications to Inverse Problems in….	**S.B. Yuste**
09.50 - 10.25	**A. Fiasconaro**	Models of driven polymer translocation	
10.30 - 11.00		Coffee break	
11.00 - 11.35	**S.B. Yuste**	Finite Difference Methods with Variable Timesteps for Fractional Diffusion….	**Chair**
11.40 - 12.15	**G. Rossi**	A first principle derivation of the stress tensor of a discrete system	**T. Arimitsu**
12.20 - 12.55	**A. Herman**	Inelastic collisions and clustering of sea ice floes - the influence of floe-size ….	
13.00 - 15.00		Lunch	

Workshop — ECONOPHYSICS & SOCIOPHYSICS (Room B) — Friday 15

15.00 - 15.35	**G. Kleppe**	Complexity from strategic choices during ship manuevering	**Chair**
15.40 - 16.15	**K.-T. Tsai**	Effect of overnight gap on financial return and volatility in Taiwan stock market	**A. Nowak**
16.20 - 16.55	**J. Sladkowski**	Generalization of the Aoki-Yoshikawa Sectoral Productivity Model	
17.00 - 17.30		Coffee break	
17.30 - 17.55	**D. Faranda**	Numerical convergence of the block-maxima approach to the Generalized….	**Chair**
18.00 - 18.25	**B. Kaulakys**	Nonextensive statistical mechanics distributions and the dynamics of financial….	**M. Milakovic**
18.30 - 18.55	**A. Petersen**	Quantifying Career Growth and Career Longevity in Academia	

	Workshop	ECONOPHYSICS & SOCIOPHYSICS (Room D)	Friday 15
15.00 - 15.35	**Z. Burda**	Random Matrix Analysis of Financial Data	**Chair**
15.40 - 16.15	**E. Ben-Jacob**	The US market stays prone to systemic collapses	**P. Argyrakis**
16.20 - 16.55	**G. Caldarelli**	Interdisciplinary applications of statistical physics	
17.00 - 17.30		Coffee break	
17.30 - 17.55	**C. Lucheroni**	Price Spikes in Electricity Markets and Stochastic Resonating Spiking	**Chair**
18.00 - 18.25	**T. Ohnishi**	Characteristics of bubble in house price distribution of Japan	**E. Ben-Jacob**
18.30 - 18.55	**M. Takayasu**	Empirical laws and mathematical models for the statistics and structure of….	

	Workshop	NANOPHYSICS (Room C)	Friday 15
15.00 - 15.35	**K. Kugel**	Nanoscale phase separation in materials with strongly correlated electrons	**Chair**
15.40 - 16.15	**A. Carbone**	Quasiparticle fluctuation power spectra in layered superconductors	**K. Kadowaki**
16.20 - 16.55	**E. Shimshoni**	Superconductor-insulator magneto-oscillations in superconducting strips	
17.00 - 17.30		Coffee break	
17.30 - 17.55	**M. Ferrier**	Probing the dynamics of Andreev states in a coherent Normal….	**Chair**
18.00 - 18.25	**G. Berdiyorov**	Intermediate-state flux structures in mesoscopic type-I superconductors -….	**P. Hedegård**
18.30 - 18.55	**M. Forrester**	Analytical and numerical studies of magnetic nanodiscs and their responses to ….	
19.00 - 19.25	**B. Rutten**	Cooling by heating	

POSTER SESSION

Posters will be exposed in the hall from Tuesday 08.30 to Friday 14.00

N. Arimitsu	Verification of the scaling relation within Multifractal Probability Density Function Theory by analyzing PDFs from ….
L. Athanasopoulou	Fractal properties revealed in genome sequences through a block entropy approach
A. Bashan	Percolation in networks composed of connectivity and dependency links
A. Bondarev	Monte Carlo Simulation of Spin-Glass Properties of Amorphous Magnets with Random Anisotropy
M. Borowko	A Density Functional Approach to Adsorption of Mixtures on Surfaces Modified with End-Grafted Polymers
M. Bose	Noise-assisted tumor-immune cells reaction
H. Cencarikova	Simple model of magnetization processes in rare-earth tetraborides
R. Corrado	Time fluctuations of vegetation patterns and early warning signals of desertification transition in semi-arid ecosystems
V. Constantoudis	Entropy analysis of word-length series of natural language texts: Effects of ….
M. Daoud	Percolation threshold of a random network of two dimensional sticks
J.I. Deza	Exact solutions to nonlinear Fokker-Planck equations
P. Farkasovsky	Simple model of magnetization processes in rare-earth tetraborides
V. Frette	The time needed to board an airplane: a power law and the structure behind it
A. Fronczak	General, combinatorial formula for the density of states: insights into the energy equipartition principle and the ….
G. Gervino	Nonextensive statistical effects in the quark-gluon plasma formation at relativistic heayy ion collisions energies
M. Golshan	Position Dependent Entanglement of Electronic spin-subband states in a Rashba Nanoloop
M. Golshan	The Dynamical Behavior of Spin-Subband Entanglement in a Rashba-Dresselhaus nanoloop
J. Inoue	Optimization and statistical estimation in image processing via Langevin equations
B. Jiménez de Cisneros	Thermodynamic potentials and non-isolated adiabatic pistons
M. Komatsuzaki	On Cantor sets associated with unstable periodic orbits generated by the logistic map
F. Kusmartsev	Flux-Flow Oscillator (FFO) made with the Fluxon Cloning
F. Kusmartsev	Huge linear magnetoresistance in graphene on graphite
J.W. Lee	Wealth redistribution models on complex network and evolution of nation's wealth in world trade network
J.W. Lee	Effects of Intraday Patterns on Analysis of Stock Market Index
I. Lelidis	Induced magnetic field transition in a strong anchoring Cholesteric-Nematic model
G. Livadiotis	The entire N-particle kappa distribution
A. Losdorfer Bozic	Electrostatic self-energy of a partially formed spherical shell in salt solution: the weak and strong coupling limits
K. Malarz	Simple cubic random-site percolation thresholds for complex neighborhoods
S. K. Mehdi	Canonical and grand canonical ensembles : discrepancy in thermodynamical quantities
S. Menchon	Neuronal (bi)polarity driven by membrane growth
M.A. Moosavi	Entanglement of two-level atoms and two photonic modes in Kerr media
M.A. Moosavi	Dynamics Of Entanglement between Photons and Pi-Electrons in Graphene
D. Mostacci	Wave propagation and landau-type damping in liquids and dense gases
G. Murariu	Stat. analysis for air quality assessment A case study from Iasi region - Romania
G. Olivier	Non-equivalence of ensembles for quantum spin systems
G. Pavlov	Nonlinear response theory of non-ideal systems
A. Patrykiejew	Freezing of mixed submonolayer films of argon and Krypton on graphite
F. Pennini	Fisher Information and Semiclassical Treatments
F. Perez-Reche	Epidemics in soil networks
T. Perlova	BioLCCC: polypeptide chromatography from a physicist's point of view
D. Persano Adorno	External Noise Effects in doped semiconductors operating under sub-THz signals
D. Persano Adorno	Monte Carlo investigation of electron spin relaxation in GaAs crystals during low-field transport
M. Petrakis	Investigation of avalanche recurrence interval statistics in fiber bundle models and connections with earthquake ….
A. Pires	Frustation and quantum phase transition in the anisotropic antiferromagnet on a square lattice
N. Pizzolato	Chronic Myeloid Leukemia: Stochastic modeling of cancer progression under intermittent therapies
F. Pouresmaeeli	Dynamics of Spin Qubits in Graphene
G. Ruiz	Time-Evolving Statistics of Chaotic Orbits of Conservative Maps
A. Santos	Are the virial coefficients and the close-packing of hard disks and hard spheres related?
A. Santos	Couette flow for an impurity immersed in a granular gas
G. Sezgin	The simulation of three dimensional spin-3/2 Ising model on a cellular automata with an external magnetic field
A.M. Scarfone	Relationships between the Legendre structure in the S_{2-q} formalism and the dually flat structure in the space ….
G. Sica	T=0 phase diagram of the 1D Hubbard model with magnetic interactions in the narrow-band limit
S.Sokolowski	Nanostructures in a binary mixture confined in slit-like pores with walls decorated with tethered polymer brushes ….
K. Takechi	Numerical simulation of 2D granular particles and its analyses by means of the micropolar fluid model
R. Tonelli	Pesin Identity at the edge of chaos: Averaging on single trajectories vs ensemble averages
K.-T. Tsai	Enhanced Stochastic Resonance of Individuals in Complex Networks
O. Valba	Matching of RNA-type sequences and statistical analysis of random RNA
R. Venkatesan	Deformed Statistics Framework for Deterministic Annealing
D. Volchenkov	Modularity and Informational Aspects of Classical Dance
D. Volchenkov	Dynamics and Evolution of Languages in the Indo-European and Austronesian Language Families
J. Wouters	Linear response of SRB measures to time-dependent perturbations
S. Yoon	Ising model on clustered complex networks: belief propagation algorithm
Y. Yura	Observation of market potentials by using a particle filter method
N. Zachariou	Self-organized criticality in a model of trade: aggregate fluctuations from independent sectoral shocks investigated ….
M. Zukovic	Dynamics of episodic transient correlations in financial time series and their predictability