

MONDAY

08.30 - 11.00	Registration desk		
	Plenary	Welcome Addresses & Opening Ceremony (Ballroom)	Monday 7
11.30 - 11.40	Kaniadakis G.	Conference Chairman	Chair
11.40 - 11.50	Mayor of Rhodes	Rhodes Municipality	Carbone A.
11.50 - 12.00	Luczka J.	European Physical Society - Nonlinear and Statistical Physics Division Chair	
12.30 - 12.45	Group Photo		
13.00 - 15.00	Lunch		
	Workshop	Economic Complexity (Zeus)	Monday 7
15.00 - 15.25	Pietronero L.	<i>Economic Complexity</i>	Chair
15.30 - 15.55	Tacchella A.	<i>The complex nested structure of the Countries-Products matrix</i>	Chiarotti G.L.
16.00 - 16.15	Garuccio E.	<i>A complex network approach for rating of socio-economic indicators. The UN...</i>	
16.20 - 16.35	Rapisarda A.	<i>Micro and Macro Benefits of Random Investments in Financial Markets</i>	
16.40 - 16.55	Almog A.	<i>Binary versus non-binary information in real time series: empirical results ...</i>	
17.00 - 17.30	Coffee break		
17.30 - 17.55	Bianconi G.	<i>Evolution, information and entropy of multiplex networks</i>	Chair
18.00 - 18.25	Saracco F.	<i>Reconstructing countries diversification by a simple competitive model</i>	Tacchella A.
	Workshop	Econophysics & Risk (Ialysos)	Monday 7
15.00 - 15.25	Di Matteo T.	<i>Dependency structure and scaling properties of financial time series are related</i>	Chair
15.30 - 15.55	Vodenska I.	<i>Interdependencies and causality in coupled financial networks</i>	Tasca P.
16.00 - 16.15	Modanese G.	<i>Discretized kinetic theory on a network as a tool for the study of economic...</i>	
16.20 - 16.35	Gontis V.	<i>Financial herding of three agent groups under the impact of exogenous noise</i>	
16.40 - 16.55	Rajkovic M.	<i>Instabilities in the topological structure of financial simplicial networks</i>	
17.00 - 17.30	Coffee break		
17.30 - 17.55	Battiston S.	<i>Credit Default Swaps networks and systemic risk</i>	Chair
18.00 - 18.25	Tasca P.	<i>Virtual Currencies. A Risk Analysis</i>	Garlaschelli D.
	Workshop	Biophysics (Elafos)	Monday 7
15.00 - 15.25	Buyukdagli S.	<i>Statistical physics of charged liquids under nanoconfinement</i>	Chair
15.30 - 15.55	von der Heydt A.	<i>Cross-link induced stiffening of weakly bending biopolymers</i>	Pennetta C.
16.00 - 16.25	Benetatos P.	<i>Tension-induced binding of semiflexible biopolymers</i>	
16.30 - 16.55	Zavadlav J.	<i>Adaptive Resolution Simulation of an Atomistic Protein in MARTINI Water</i>	
17.00 - 17.30	Coffee break		
17.30 - 17.50	Bohinc K.	<i>A field theoretic approach to the electric double layer</i>	Chair
17.55 - 18.15	Gonnella G.	<i>Effective temperature in an active matter system</i>	Carbone A.
18.20 - 18.40	Nechaev S.K.	<i>Fractal globules: new approach to handmade molecular machines</i>	
	Workshop	Anomalous Diffusion (Ballroom B)	Monday 7
15.00 - 15.10	Boon J.P.	<i>Welcome and introduction</i>	Chair
15.10 - 15.40	Lutsko J.F.	<i>Anomalous diffusion from particle interactions</i>	Boom J.P.
15.45 - 16.15	Gabrielli A.	<i>Structural disorder and anomalous diffusion in random packing of spheres</i>	
16.20 - 16.55	Krapf D.	<i>An actin fractal compartmentalizes the surface of mammalian cells</i>	
17.00 - 17.30	Coffee break		
17.30 - 17.55	Yoon P.H.	<i>Kappa distribution of quiet-time solar wind electrons as turbulent quasi-equil...</i>	Chair
18.30 - 18.55	Sheng N.	<i>Asymmetrical free diffusion with orientation-dependence of molecules in finite...</i>	Lutsko J.F.
19.00 - 19.25	Sauga A.	<i>Memory-induced sign reversals of the spatial cross-correlation for particles in...</i>	
	Workshop	Sociophysics (Ariadne)	Monday 7
15.00 - 15.25	Neda Z.	<i>Distance versus time scaling in human travel</i>	Chair
15.30 - 15.55	Korniss G.	<i>The Impact of Heterogeneous Threshold Distribution on Cascades in the ...</i>	Helbing D.
16.00 - 16.25	Asimakopoulou A.	<i>Geographic location, network distribution and population statistics of rural ...</i>	
16.30 - 16.55	Garlaschelli D.	<i>Reciprocity and optimal scales of weighted networks</i>	
17.00 - 17.30	Coffee break		
17.30 - 17.55	Argyris P.	<i>Key player countries in FP7 collaboration network</i>	Chair
18.00 - 18.25	Toyoizumi H.	<i>Evaluating advertisement on social network by extended sir model</i>	Neda Z.
18.30 - 18.55	Piotrowski E.W.	<i>Do classical or quantum transitive preferences always result in indifferent ...</i>	
	Workshop	Quantum Computation and Quantum Information (Ballroom A)	Monday 7
15.00 - 15.25	Jizba P.	<i>Feynman checkerboard picture and neutrino oscillations</i>	Chair
15.30 - 15.55	Knysh S.	<i>Quantum Annealing of Hopfield Model</i>	Sladkowski J.
16.00 - 16.25	Eremeev V.	<i>Sudden changes and freezing of the correlations between two qubits in ...</i>	
16.30 - 16.55	Magazzu L.	<i>Dynamics of a dissipative multi-state quantum system</i>	
17.00 - 17.30	Coffee break		
17.30 - 17.55	Sladkowski J.	<i>Thermal environments in quantum games</i>	Chair
18.00 - 18.25	Somsikov V.M.	<i>Transition from the mechanics of material point to the mechanics of ...</i>	Jizba P.
18.30 - 18.55	Guarcello C.	<i>Sine-Gordon Breathers generation in driven long Josephson junctions</i>	

TUESDAY

MAIN CONFERENCE (Ballroom A)

Tuesday 8

08.30 - 09.05	Ohara A.	<i>Construction of Legendre dualities for generalized entropies via conformal ...</i>	Chair
09.10 - 09.45	Matsuzoe H.	<i>Statistical manifolds on deformed exponential families and their applications</i>	Naudts J.
09.50 - 10.25	Wada T.	<i>Information geometry on the κ-thermostatistics</i>	
10.30 - 11.00	Coffee break		
11.00 - 11.25	Apenko S.	<i>Clausius inequality and H-theorems for Ulam's redistribution problem</i>	Chair
11.30 - 11.55	Kharlamov G.V.	<i>Molecular dynamics simulation of self-diffusion of gases and liquids in...</i>	Ohara A.
12.00 - 12.25	Greshnov A.A.	<i>Fokker-Planck approach to propagation of light in one-dimensional disordered ...</i>	
12.30 - 12.55	Tay B.A.	<i>Reduced dynamics of dimer subsystem in a molecular chain</i>	
13.00 - 15.00	Lunch		

MAIN CONFERENCE (Ballroom B)

Tuesday 8

08.30 - 09.05	Luczka J.	<i>Brownian motors: Enhancement of efficiency by noise</i>	Chair
09.10 - 09.45	Rittenberg V.	<i>Conformal invariant stochastic processes</i>	Fantoni R.
09.50 - 10.25	Gitterman M.	<i>Stochastic oscillator with a random mass</i>	
10.30 - 11.00	Coffee break		
11.00 - 11.25	Fantoni R.	<i>Quantum Gibbs ensemble Monte Carlo</i>	Chair
11.30 - 11.55	Fassihi M.	<i>Application of the Confined Quantum Field Theory in the Statistical Physics.</i>	Luczka J.
12.00 - 12.25	Tuncer A.	<i>Spectral Renormalization Group for a scalar ϕ^4 theory on the Cayley tree</i>	
12.30 - 12.55	Kessal S.	<i>Thermodynamics of bosonic systems in the canonical ensemble</i>	
13.00 - 15.00	Lunch		

MAIN CONFERENCE (Ariadne)

Tuesday 8

08.30 - 09.05	Spicka V.	<i>Fast dynamics of mesoscopic systems and fluctuation - dissipation theorem</i>	Chair
09.10 - 09.45	Spineanu F.	<i>Comparative studies of the statistical and field theoretical descriptions of ...</i>	Aydin A.
09.50 - 10.25	Deo N.	<i>Penner matrix models inspired by interacting RNA</i>	
10.30 - 11.00	Coffee break		
11.00 - 11.25	Lozada-Cassou M.	<i>Complex fluids at finite concentration: A theoretical approach</i>	Chair
11.30 - 11.55	Corominas-Murtra B	<i>Maximum Entropy Principle and Path Dependence</i>	Spicka V.
12.00 - 12.25	Maciolek A.	<i>Action at the distance</i>	
12.30 - 12.55	Aydin A.	<i>Dimensional Transition Point in Thermodynamic Properties of Maxwell-Boltz....</i>	
13.00 - 15.00	Lunch		

MAIN CONFERENCE (Kamiros)

Tuesday 8

08.30 - 09.05	Mendes J.F.	<i>Structural properties of complex networks</i>	Chair
09.10 - 09.45	Obliger A.	<i>Pore network model of electrokinetic transport through charged porous media</i>	Siudem G.
09.50 - 10.25	Prellberg T.	<i>The pressure of surface-attached polymers and vesicles</i>	
10.30 - 11.00	Coffee break		
11.00 - 11.25	Siudem G.	<i>Exact Expression for Number of Energy States in the Two-Dimensional Ising ...</i>	Chair
11.30 - 11.55	Zukovic M.	<i>Entropy of frustrated Ising spin clusters</i>	Mendes J.F.
12.00 - 12.25	Perez-Madrid A.	<i>New clues on the thermodynamic behaviour in small systems</i>	
12.30 - 12.55	Levis D.	<i>Emergent structures and effective thermodynamics in systems of active particles.</i>	
13.00 - 15.00	Lunch		

Workshop

Economic Complexity (Zeus)

Tuesday 8

15.00 - 15.25	Cristelli M.	<i>Country Development as a Complex Dynamical System: Weather-Like...</i>	Chair
15.30 - 15.55	Pugliese E.	<i>The Determinants of the Distribution of Wealth and Income</i>	Chiarotti G.L.
16.00 - 16.15	Baldovin F.	<i>Growth in the global products network</i>	
16.20 - 16.35	Fronczak P.	<i>International trade network: fractal properties and globalization puzzle</i>	
16.40 - 16.55	di Clemente R.	<i>On the spatial distribution of the Italian primary school-size</i>	
17.00 - 17.30	Coffee break		
17.30 - 17.55	Caldarelli G.	<i>The rise of China in the international trade network: a community core ...</i>	Chair
18.00 - 18.25	Zaccaria A.	<i>Memory effects in stock price dynamics: evidences of technical trading</i>	Cristelli M.
18.30 - 18.45	Chiarotti G.L.	<i>Subsidization of Production and Financialization of Trade in Agricultural ...</i>	

Workshop

Econophysics & Risk (Ialyssos)

Tuesday 8

15.00 - 15.25	Olsen R.	<i>From World Time To Event Time: Why Time Matters</i>	Chair
15.30 - 15.55	Germano G.	<i>Spitzer identities and Wiener-Hopf factorisations through fast Hilbert transform...</i>	Battiston S.
16.00 - 16.15	Maskawa J.-I.	<i>Collective behaviors of market participants during special offer quote in stock ...</i>	
16.20 - 16.35	Livan G.	<i>Pricing in a complex financial market: instability from local measures</i>	
16.40 - 16.55	Kononovicius A.	<i>Controlling the Dynamics of Herding Dominant Financial Markets</i>	
17.00 - 17.30	Coffee break		
17.30 - 17.55	Garlaschelli D.	<i>Early-warning signals of topological collapse in interbank networks</i>	Chair

Workshop

Complex Networks (Ariadne)

Tuesday 8

15.00 - 15.35	Barabási A.-L.	<i>Taming Complexity: Controlling Networks</i>	Chair
15.40 - 16.15	Caldarelli G.	<i>Self healing networks</i>	Scala A.
16.20 - 16.55	Niven R.K.	<i>Analysis of Flow Networks by the Maximum Entropy Method</i>	

17.00 - 17.30	Coffee break		
17.30 - 17.55	Tarasevich Y.Yu.	<i>Is percolation of long rods possible?</i>	Chair
18.00 - 18.25	Donnelly I.C.	<i>Pattern Formation on Networks: a Continuous Time Random Walk approach</i>	Niven R.K.
Workshop		Complex Networks (Ballroom B)	Tuesday 8
15.00 - 15.35	Aste T.	<i>Information filtering networks</i>	Chair
15.40 - 16.15	Tria F.	<i>Exploiting networks of concepts in learning paths</i>	Kahng B.
16.20 - 16.55	Advani M.	<i>Optimal High Dimensional M-estimation</i>	
17.00 - 17.30	Coffee break		
17.30 - 17.55	Laut I.	<i>Network analysis of 3D complex plasma clusters in a rotating electric field</i>	Chair
18.00 - 18.25	Evangelatos S.	<i>Statistical mechanics approach for the detection of multiple wireless sources...</i>	Zlatic V.
18.30 - 18.55	Kahng B.	<i>Non-trivial discontinuous percolation model in cluster aggregation processes</i>	
19.00 - 19.25	Yevin I.	<i>Works of art as multilayer networks</i>	
Workshop		Anomalous Diffusion (Kamiro)	Tuesday 8
15.00 - 15.25	Boon J.P.	<i>Anomalous diffusion in reaction-diffusion systems</i>	Chair
15.30 - 15.55	Gudowska-Nowak E.	<i>Work distribution and fluctuation-dissipation relations for systems driven by ...</i>	Krapf D.
16.00 - 16.25	Lee S.B.	<i>Manna universality class is independent from the directed percolation class</i>	
16.30 - 16.55	Chan H.-K.	<i>Scaling analysis of negative differential thermal resistance</i>	
17.00 - 17.30	Coffee break		
17.30 - 18.15	Kharcheva A.A.	<i>Effect of potential barrier on correlation characteristics of steady-state Levy ...</i>	Chair
18.20 - 18.45	Illien P.	<i>Geometry-induced superdiffusion and velocity anomaly in driven crowded...</i>	Gudowska-Nowak E.
18.50 - 19.15	Rossani A.	<i>Spintronics Of A Bipolar Semiconductor With Fermi-Dirac Statistics</i>	
19.20 - 19.45	Nobre F.D.	<i>Consistent Thermodynamic Framework for Interacting Particles by Neglecting...</i>	
Workshop		Quantum Computation and Quantum Information (Ballroom A)	Tuesday 8
15.00 - 15.25	Mülken O.	<i>Quantum Walks on Complex Networks</i>	Chair
15.30 - 15.55	Sladkowski J.	<i>Quantum auctions and quantum mechanism design</i>	Knysh S.
16.00 - 16.25	Montenegro V.	<i>Entanglement stabilization assisted by a nonlinear oscillator coupled to a ...</i>	
16.30 - 16.55	Chen H.	<i>Photonic Simulation Of The Dirac Equation In Metamaterials</i>	
17.00 - 17.30	Coffee break		
19.30 - 22.00	Board Meeting of the NSP-EPS		
Nonlinear and Statistical Physics Division of the European Physical Society			

WEDNESDAY

MAIN CONFERENCE (Ballroom A)

Wednesday 9

08.30 - 09.05	Pistone G.	<i>Information geometry formalism for the spatially homogeneous Boltzmann ...</i>	Chair
09.10 - 09.45	Hristopoulos D.	<i>The Kappa-Weibull distribution and Weakest-Link scaling</i>	Naudts J.
09.50 - 10.25	Chavanis P.-H	<i>Isothermal collapse of self-gravitating Brownian particles</i>	
10.30 - 11.00	Coffee break		
11.00 - 11.25	Birò T.S.	<i>Statistical power law due to reservoir fluctuations and the universal thermostat...</i>	Chair
11.30 - 11.55	Naudts J.	<i>Large deviation estimates involving q-deformed exponential functions</i>	Pistone G.
12.00 - 12.25	Wlodarczyk Z.	<i>Tsallis distribution decorated with log-periodic oscillation</i>	
12.30 - 12.55	Wilk G.	<i>Power laws in multiparticle production processes</i>	
13.00 -	Lunch		

MAIN CONFERENCE (Ballroom B)

Wednesday 9

08.30 - 09.05	Grigolini P.	<i>Emergence of complexity from cooperative interaction</i>	Chair
09.10 - 09.45	Lee M.H.	<i>Chaos in ergodicity</i>	Constantoudis V.
09.50 - 10.25	Leyvraz F.	<i>Undamped periodic oscillations in many-body systems</i>	
10.30 - 11.00	Coffee break		
11.00 - 11.25	Tarasov S.V.	<i>Universal scaling in the statistics and thermodynamics of the Bose-Einstein ...</i>	Chair
11.30 - 11.55	Matveev L.V.	<i>Influence of mobile second phase on impurity behavior in double porous media...</i>	Grigolini P.
12.00 - 12.25	Constantoudis V.	<i>Model-aided hybrid metrology and characterization of surface nanoroughness</i>	
12.30 - 12.55	Vlad M.	<i>Trajectory statistics and turbulence evolution</i>	
13.00 -	Lunch		

MAIN CONFERENCE (Ariadne)

Wednesday 9

08.30 - 09.05	Manneville P.	Dynamical systems and the direct transition to turbulence in subcritical flows	Chair
09.10 - 09.45	Field T.R.	Dynamical theory of spin noise and relaxation: prospects for real time NMR...	Fogedby H.
09.50 - 10.25	Lutsko J.F.	Generalization of classical nucleation theory to include multiple order ...	
10.30 - 11.00	Coffee break		
11.00 - 11.25	Fogedby H.	<i>Large deviations, fluctuation theorems and model systems</i>	Chair
11.30 - 11.55	Greshnov A.A.	Modelling the integer quantum Hall effect at finite temperature in the quantum...	Field T.R.
12.00 - 12.25	Grebenkov D.	<i>Rigorous results on first-passage times for surface-mediated diffusion</i>	
12.30 - 12.55	Kolovos A.	<i>Methodology for Deployment of Optimally Distributed Solar Monitoring Networks</i>	
13.00 -	Lunch		

MAIN CONFERENCE (Kamiros)

Wednesday 9

08.30 - 09.05	Yamada K.	<i>Realistic order book model based on real data analysis</i>	Chair
09.10 - 09.45	Tadic T.	Understanding Dynamics of Emotions and Emergent Collective Phenomena in...	Aneja P.
09.50 - 10.25	Meyer-Ortmanns H.	<i>Aging of Classical Oscillators during a Noise-Driven Migration of Oscillator Phases</i>	
10.30 - 11.00	Coffee break		
11.00 - 11.25	Aneja P.	<i>Inference of optimality in constrained thermodynamic processes with prior...</i>	Chair
11.30 - 11.55	Bazzani A.	<i>Transient states and congestion in simple dynamical models on networks</i>	Tadic B.
12.00 - 12.25	Delfino G.	<i>Order parameter profiles in presence of topological defect lines</i>	
12.30 - 12.55	Adler P.M.	<i>Geometrical characterization of blocks in fractured media</i>	
13.00 -	Lunch		

THURSDAY

MAIN CONFERENCE (Ballroom A)

Thursday 10

08.30 - 09.05	Spagnolo B.	<i>Noise-induced Effects in Nonlinear Relaxation of Condensed Matter Systems</i>	Chair
09.10 - 09.45	Shalymov D.S.	<i>Speed Gradient and MaxEnt principle for Shannon and Tsallis entropies</i>	Karlis A.K.
09.50 - 10.25	Tria F.	<i>The dynamics of correlated novelties</i>	
10.30 - 11.00	Coffee break		
11.00 - 11.25	Kalogeropoulos N.	<i>Geometric aspects of a non-extensive entropy</i>	Chair
11.30 - 11.55	Karlis A.K.	<i>A universal mechanism for long-range cross-correlations</i>	Spagnolo B.
12.00 - 12.25	Bianucci M.	<i>Non conventional fluctuation - dissipation approach in Geophysical Fluid Dynamics</i>	
12.30 - 12.55	Ooshida T.	<i>Analytical calculation of four-point correlations as indicators of collective...</i>	
13.00 - 15.00	Lunch		

MAIN CONFERENCE (Ballroom B)

Thursday 10

08.30 - 09.05	Nowak M.A.	<i>Burgers dynamics in random matrix models</i>	Chair
09.10 - 09.45	Dietrich S.	<i>Critical Casimir Forces</i>	Garzò V.
09.50 - 10.25	Gammaitoni L.	<i>Fundamental energy limits in the physics of small-scale computing systems</i>	
10.30 - 11.00	Coffee break		
11.00 - 11.25	Garzò V.	<i>Instabilities in granular fluids at moderate densities</i>	Chair
11.30 - 11.55	Gialampoukidis I.	<i>Time Operator, Age and Mixing of Markov chains</i>	Nowak M.A.
12.00 - 12.25	Izmailyan N.	<i>Exact finite-size corrections and corner free energies for the $c=-2$ universality...</i>	
12.30 - 12.55	Dubinín N.E.	<i>The square-well model within the mean spherical approximation as a reference...</i>	
13.00 - 15.00	Lunch		

MAIN CONFERENCE (Ariadne)

Thursday 10

08.30 - 09.05	Rossi P.	<i>Population dynamics and surname distribution</i>	Chair
09.10 - 09.45	Kaski K.	<i>Computational social sciences: studies of in vivo sociality</i>	Liarte D.B.
09.50 - 10.25	Faranda D.	<i>Statistical early-warning indicators based on Auto-Regressive Moving-Average...</i>	
10.30 - 11.00	Coffee break		
11.00 - 11.25	Savvidy G.	<i>The Goniheric Paradigm. Extensions of the Ising Model</i>	Chair
11.30 - 11.55	Mounaix P.	<i>On the Gap and Time Interval between the First Two Maxima of Long Random...</i>	Rossi P.
12.00 - 12.25	Kantor Y.	<i>Entropic forces between polymers and repulsive surfaces</i>	
12.30 - 12.55	Liarte D.B.	<i>Effective-medium theory and simulations of under-coordinated random lattices...</i>	
13.00 - 15.00	Lunch		

MAIN CONFERENCE (Kamiros)

Thursday 10

08.30 - 09.05	Hansen A.	<i>A Monte Carlo method for two-Phase flow in porous media</i>	Chair
09.10 - 09.45	Guttman A.J.	<i>Self-avoiding walks and related models under compression</i>	Fleurke S.R.
09.50 - 10.25	Zotos X.	<i>Finite temperature and magnetic field transport in 1D quantum magnets</i>	
10.30 - 11.00	Coffee break		
11.00 - 11.25	Fleurke S.R.	<i>Growing Layer Capacity In The Multilayer Particle Deposition Process</i>	Chair
11.30 - 11.55	Kaulakys B.	<i>1/f noise from the nonlinear transformations of the variables</i>	Hansen A.
12.00 - 12.25	Rutkevich S.B.	<i>Scaling behavior in the 3d $O(n)$ ϕ^4 model in half-space and slab ...</i>	
12.30 - 12.55	Kastrinakis G.	<i>Variational wavefunction for multi-species spinful fermionic systems-application...</i>	
13.00 - 15.00	Lunch		

Workshop

Sociophysics (Zeus)

Thursday 10

08.30 - 08.55	Helbing D.	<i>Digital Society and Economy 4.0 - The Ultimate Challenges for Complexity ...</i>	Chair
09.00 - 09.25	Lim C.	<i>Random Graphs in Opinion Dynamics</i>	Constantoudis V.
09.30 - 09.55	Di Stefano B.N.	<i>Biomimicri, Imitation & Learning As A Method for Developing Cognitive Agents</i>	
10.00 - 10.25	Toroczkai Z.	<i>A Reciprocity Based Model of Social Networks</i>	
10.30 - 11.00	Coffee break		
11.00 - 11.25	Constantoudis V.	<i>Short and long-range correlations between words in texts: Universality versus...</i>	Chair
11.30 - 11.55	Kazienko P.	<i>Data-driven Seed Selection for Spread of Influence in Temporal Social Networks</i>	Toroczkai Z.
12.00 - 12.25	Szymanski B.K.	<i>Dynamics of opinion spread in Social Networks</i>	
12.30 - 12.55	Najafi E.	<i>Key-phrase Detection using Fractal Patterns of Words in a Text</i>	
13.00 - 15.00	Lunch		

Workshop

Kappa Plasmas (Ialyssos)

Thursday 10

08.30 - 09.05	Livadiotis G.	<i>Understanding Kappa Distributions in space plasmas</i>	Chair
09.10 - 09.45	Lazar M.	<i>Modeling the space plasma microstates with Kappa distribution functions</i>	Lazar M.
09.50 - 10.25	Coffee break		
11.00 - 11.25	Randol B.	<i>Simulations of plasma obeying Coulomb's law and the formation of suprather...</i>	Chair
11.30 - 11.55	Kourakis I.	<i>Modelling electrostatic solitary waves and shocks in non-Maxwellian plasmas...</i>	Livadiotis G.
12.00 - 12.25	Pierrard V.	<i>Kappa distributions in space plasmas: from origin to consequences</i>	
12.30 - 12.55	Berec V.	<i>Fractional entropy and space distillable metric of nonlocal states</i>	
13.00 - 15.00	Lunch		

Workshop

Economic Complexity (Zeus)

Thursday 10

15.00 - 15.25	Cimini G.	<i>Bootstrapping topological properties of complex economic networks</i>	Chair
15.30 - 15.45	Romanovsky M.Y.	<i>Boltzmann distribution with power law tails: new multi-parametric analytical...</i>	Pietronero L.
15.50 - 16.05	Sato A.-H.	<i>An effect of natural disasters to socio-economic systems and a procedure to ...</i>	
16.10 - 16.25	Karlís A.K.	<i>Hedging against Default Risk in a Heterogeneous Leveraged Market</i>	
16.30 - 16.45	Ishii A.	<i>Network analysis of inter-firm payment flows using real monetary transaction ...</i>	
17.00 - 17.30	Coffee break		

	Workshop	Anomalous Diffusion (Zeus)	
17.30 - 17.55	Zatloukal V.	<i>Local-time representation of one-dimensional Feynman path integral</i>	Chair
18.00 - 18.25	Deroulers C.	<i>Distribution of the positions of the scouts in a population of invaders with...</i>	Lutsko J.F.
18.30 - 18.55	Corberi F.	<i>Condensation of large fluctuations in a thermodynamical system</i>	
19.00 - 19.25	Sheng N.	<i>Asymmetrical free diffusion with orientation-dependence of molecules in finite...</i>	
	Workshop	Econophysics & Risk (Ialyssos)	Thursday 10
15.00 - 15.25	Lillo F.	<i>Systemic price cojumps</i>	Chair
15.30 - 15.55	Takayasu H.	<i>Proposing a project of Financial Observatory of Real-time Market fluctuations</i>	Germano G.
16.00 - 16.15	Peters O.	<i>Evaluating a gamble – a dynamics perspective</i>	
16.20 - 16.35	Mizuno T.	<i>Exogenous shocks in financial markets: Statistical analysis using business news</i>	
16.40 - 16.55	Aste T.	<i>From correlations between assets prices to modeling of economic interactions...</i>	
17.00 - 17.30		Coffee break	
17.30 - 17.55	Takayasu M.	<i>Similarity between colloidal random walks and financial random walks</i>	Chair
	Workshop	Complex Networks (Ariadne)	Thursday 10
15.00 - 15.35	Gabrielli A.	<i>Reconstruction real economic and financial networks from partial information: ...</i>	Chair
15.40 - 16.15	Yanagita T.	<i>The Schottky Anomaly in Easily Synchronizable Oscillator-Networks</i>	Scala A.
16.20 - 16.55	Maragakis M.	<i>A novel finite-size scaling method for the calculation of critical exponents of ...</i>	
17.00 - 17.30		Coffee break	
17.30 - 17.55	Cellai D.	<i>Percolation in multiplex networks with overlap</i>	Chair
18.00 - 18.25	Tibély G.	<i>Hierarchies in tagged data</i>	Gabrielli A.
18.30 - 18.55	von der Heydt A.	<i>Phase behavior of randomly cross-linked diblock copolymers</i>	
19.00 - 19.25	Shimada T.	<i>A novel transition in robustness of open systems</i>	
19.30 - 19.55	Munoz M.A.	<i>Griffiths phases in complex brain networks</i>	
	Workshop	Biophysics (Ballroom B)	Thursday 10
15.00 - 15.30	Meyer-Ortmanns H.	<i>Coupled genetic circuits: a control mechanism for the onset and arrest of ...</i>	Chair
15.35 - 15.55	Patriarca M.	<i>Diversity and noise effects in generalized multi-neuron models of homeostatic...</i>	Paradisi P.
16.00 - 16.20	Virnau P.	<i>Knots In DNA and Proteins</i>	
16.25 - 16.55	Gabrielli A.	<i>Statistical physics approach to quantifying differences in myelinated nerve...</i>	
17.00 - 17.30		Coffee break	
17.30 - 17.50	Rupprecht J.F.	<i>Actin ous mediate a universal coupling between cell speed and cell persistence</i>	Chair
17.55 - 18.15	Doniach S.	<i>Angular correlations of x-rays scattered from nano particles and biomolecules ...</i>	Paradisi P.
	Workshop	Quantum Computation and Quantum Information (Ballroom A)	Thursday 10
15.00 - 15.35	Pachos J.K.	<i>Majorana fermions: a new computational paradigm</i>	Chair
15.40 - 16.15	Brennen G.	<i>Braided statistical physics with anyons</i>	Shikano Y.
16.20 - 16.55	Evangelou S.N.	<i>Immunity of Anderson localization due to Topology</i>	
17.00 - 17.30		Coffee break	
17.30 - 18.05	Shikano Y.	<i>Discrete time quantum walk is quantum dynamical simulator</i>	Chair
18.10 - 18.35	Sanghyun A.	<i>Optimization of Traffic Efficiency under Bounded Information accessibility ...</i>	Pachos J.K.
18.40 - 19.05	Konstandakis C.	<i>Simulating Faulty Quantum Search Algorithm With Quantum Walks</i>	
19.10 - 19.35	Berec V.	<i>Resonant hybrid quantum bit processing with proton channeling</i>	
19.40 - 20.05	Ellinas E.	<i>Phylogenetics as Quantum Computing: Concepts, Tools, Simulations</i>	

FRIDAY

MAIN CONFERENCE (Ballroom)

Friday 11

08.30 - 09.05	Ruseckas J.	<i>Power-law statistics from nonlinear stochastic differential equations driven ...</i>	Chair
09.10 - 09.45	Sakuldee F.	<i>Complex-valued Time Parameter for the Dynamics of Time-dependent Random...</i>	Santalla S.N.
09.50 - 10.25	Tsironis G.P.	<i>Nonlinear Lattices embedded in nonzero Heat baths</i>	
10.30 - 11.00	Coffee break		
11.00 - 11.25	Bertotti M.L.	<i>Microscopic models for the study of economic inequality, tax evasion and ...</i>	Chair
11.30 - 11.55	Santalla S.N.	<i>The role of topology on the Kardar-Parisi-Zhang universality class</i>	Tsironis G.P.
12.00 - 12.25	Lawniczak A.T.	<i>Population of simple cognitive agents their model and performance in dynamic...</i>	
12.30 - 12.55	Rajkovic M.	<i>Nonextensivity as a measure of self-organization and the criterion for the ...</i>	
13.30 -	Lunch		

MAIN CONFERENCE (Ariadne)

Friday 11

08.30 - 09.05	Blumen A.	<i>Exploring the applications of fractional calculus: Hierarchically-Built-Polymers</i>	Chair
09.10 - 09.45	Pearce P.A.	<i>Exact solution of a loop model of critical dense polymers in two dimensions</i>	Gupte N.
09.50 - 10.25	Talbot J.	<i>Stochastic models of blocking in particulate flows</i>	
10.30 - 11.00	Coffee break		
11.00 - 11.25	Garlaschelli D.	<i>The generalized Bose-Fermi distribution: general formalism and applications ...</i>	Chair
11.30 - 11.55	Alcaraz F.C.	<i>Universal behavior of the Shannon and Rényi mutual information of quantum...</i>	Talbot J.
12.00 - 12.25	Lippolis D.	<i>On the resolution of a chaotic phase space</i>	
12.30 - 12.55	Gupte N.	<i>The transition to synchronisation on hierarchical networks</i>	
13.30 -	Lunch		

Workshop

Biophysics (Zeus)

Friday 11

08.30 - 09.15	Goychuk I.	<i>Molecular motors operating in viscoelastic cytosol: anomalous vs. Normal ...</i>	Chair
09.20 - 09.50	Bunzarova N.	<i>The asymmetric simple exclusion process on chains with a shortcut revisited</i>	Paradisi P.
09.55 - 10.25	Turner M.S.	<i>Connecting the physics of swarming animals and active matter</i>	
10.30 - 11.00	Coffee break		
11.00 - 11.20	Perisic O.	<i>Contact and first layer residues prediction in protein dimers using the Gauss...</i>	Chair
11.25 - 11.45	Markovič R.	<i>Intercellular communication between human lens epithelial cells analyzed ...</i>	Paradisi P.
11.50 - 12.10	delle Side D.	<i>Quorum Sensing: correlation in the bacterial world</i>	
12.15 - 12.35	Gonzalez de Prado S. P.	<i>Modeling the interplay between protein and lipid aggregation in supported ...</i>	
13.30 -	Lunch		

Workshop

Environmental Statistical Physics (Ialyssos)

Friday 11

08.30 - 08.55	Chavanis P.-H.	<i>Statistical mechanics of two-dimensional Euler flows and minimum enstrophy...</i>	Chair
09.00 - 09.25	Pennetta C.	<i>The Desertification transition in semi-arid ecosystems: early indicators and ...</i>	Hristopulos D.T.
09.30 - 09.55	Valenti D.	<i>Reaction-diffusion-taxis model for spatio-temporal dynamics of five picophy...</i>	
10.00 - 10.25	Baldassarri A.	<i>Statistics of erosion events in rocky coasts and percolation theory</i>	
10.30 - 11.00	Coffee break		
11.00 - 11.15	Tsantili I.C.	<i>Karhunen-Loève expansion of Spartan spatial random fields</i>	Chair
11.20 - 11.35	Hristopulos D.T.	<i>Stochastic Local Interaction Model for Scattered Spatial Data</i>	Chavanis P.-H.
11.40 - 11.55	Makowski M.	<i>The intensity of the random variable intercept in the sector of negative ...</i>	
12.00 - 12.15	Ditlevsen P.D.	<i>Understanding the nature of climate transitions from paleoclimatic data</i>	
13.30 -	Lunch		

13.00 - 13.30

Plenary

Closing Ceremony (Ballroom)

SigmaPhi Prizes Declaration

Chair
Carbone A.

Poster Section

Posters will be exposed in the hall from Tuesday 08.30 to Thursday 20.00
Poster discussion will be held Tuesday and Thursday from 16.30 - 18.00

Amour R.	<i>Study of ion acoustic dressed solitons within the theoretical framework of the Tsallis statistical...</i>
Anashkina E.I.	<i>Predator population depending on lemming cycles</i>
Aquino G.	<i>Memory improves precision of cell sensing in fluctuating environments</i>
Arinshteyn E.A.	<i>Variational principle in the theory of partial distributions and matrices.</i>
Barbosa F.	<i>Stability dynamics in pattern formation for a nonlocal population dynamics</i>
Barfuss W.	<i>'LoGo' - From local correlations to a sparse estimate of the global inverse covariance matrix</i>
Buyadzi V.V.	<i>Nonlinear stochastic dynamics of quantum and laser systems</i>
Canosa N.	<i>Discord and information deficit in the XX chain</i>
Casas G.A.	<i>Entropy production in systems described by nonlinear Fokker-Planck equations</i>
Chae H.	<i>Discontinuous phase transition in a core contact process</i>
da Silva Barbosa C.	<i>Statistical analyses of the numerical modelling of geomagnetically induced currents in a Brazilian...</i>
de Sena N.C.	<i>Finite size effects on computer calculations of supercooled liquids</i>
Doria F.	<i>Random field Ising model with finite connectivity</i>
Dubkov A.A.	<i>Superdiffusion as a result of mechanical work</i>
Elskens Y.	<i>Ornstein-Uhlenbeck limit for the velocity process of an N-particle system interacting stochastically</i>
Eremeev V.	<i>Nonlinear electron-phonon interaction mechanism explains the exotic superconducting phase ...</i>
Fernández E.M.	<i>Intrinsic fluid interfaces and non-locality</i>
Fronczak A.	<i>Degree-corrected blockmodel: Benchmark graphs for testing community detection algorithms</i>
Fujie R.	<i>Stability condition for diffusion of artificial language with linguistic neutrality</i>
Gervino G.	<i>Thermodynamic instabilities in high energy heavy-ion collisions</i>
Gervino G.	<i>Fokker-Planck equation and thermodynamic system analysis</i>
Glushkov A.V.	<i>Chaos-geometric attractor and quantum neural networks approach to simulation of chaotic ...</i>
Glushkov A.V.	<i>Global mechanisms in the Earth atmosphere models, energy and angle momentum balance and ...</i>
Gonzalez-Pinto M.	<i>Liquid-crystal patterns of rectangular particles in a square nanocavity</i>
Gubceac G.	<i>A two-order parameter model for the analysis of phase transitions</i>
Haaland J.A.	<i>Sessile drop evaporation from isolating and conducting surfaces</i>
Hai W.	<i>Transparently controlling chaos-assisted quantum transport and localization</i>
Hernandez-Perez R.	<i>How much opinion content do literary texts have?</i>
Hwang D.-U	<i>Functional relation between fluctuation and node degree in coupled stochastic dynamical systems</i>
Inui N.	<i>Thermal fluctuations and stability of a metallic particle levitated by the Casimir effect near a ...</i>
Ishii A.	<i>Mathematical model for hit phenomena and its application to analyze popularity of weekly TV ...</i>
Khetselius O.Yu.	<i>Studying interaction dynamics of chaotic systems within a non-linear prediction statistical ...</i>
Khetselius O.Yu.	<i>Non-linear prediction statistical method to forecasting evolutionary dynamics of environmental ...</i>
Kim Y.	<i>Complete set of phase transition natures in generalized heterogeneous k-core percolation ...</i>
Kourakis I.	<i>A kappa-modified Schamel equation for ion acoustic waves in superthermal plasmas</i>
Krawczyk M.J.	<i>Communities and classes in symmetric fractals</i>
Kürsten R.	<i>Optimal bounds on critical or tricritical points of nonlinear globally coupled systems with additive...</i>
Kuzzay D.	<i>Can we estimate turbulence energy dissipation rate from PIV measurements?</i>
Kyeong S.	<i>Brain network modular structure of two opposite temperament groups in dimensions of novelty...</i>
Latella I.	<i>Thermostatistics of near-field thermal radiation and nanoscale energy harvesting</i>
Lee N.-K.	<i>Biofilaments as Annealed Semi-flexible Copolymers</i>
Lee S.	<i>A new molecular dynamics simulation method of the constant NPT ensemble</i>
Lepreti F.	<i>Turbulent diffusion and pair dispersion of bright points in the Solar photosphere</i>
Lissia M.	<i>Entropic correlations in metals and astrophysical plasmas: their role in nuclear fusion reactions</i>
Lodato M.A.	<i>Noise can enhance stability in Si bulk?</i>
Lotfi N.	<i>Active and passive faults detection by using the page rank algorithm</i>
Lucia U.	<i>Phenomenological model of thermoelasticity of solids</i>
Lushnikov A.A.	<i>Coagulation, gelation, random structures</i>
Malarz K.	<i>Competing contact processes in the Watts-Strogatz network</i>
Martinez-Raton Y.	<i>Phase behavior of liquid-crystal monolayers of rod-like and plate-like particles</i>
Mattheakis M.	<i>Linear and nonlinear photonic rogue waves in complex transparent media</i>
Mederos L.	<i>Molecular dynamics study of the elasticity of a lipid membrane</i>
Mihelich M.	<i>Towards an understanding of the Maximum Entropy Production in climate toy models</i>
Molinari V.	<i>Density distribution of the molecules of a liquid in a semi-infinite space</i>
Mondaini F.	<i>Free energy evaluation in polymer Translocation via Jarzynski Equality</i>
Moschou S.P.	<i>Potential magnetic field extrapolation</i>
Mostacci D.	<i>Dispersion Relation of Longitudinal Waves in Liquid He-4 in the framework of the Bohm inter...</i>
Mostacci D.	<i>Wave propagation and collisionless damping in quantum liquids</i>
Murariu G.	<i>An algorithm for optimizing the urban selective waste collection activity. A case study in Galati</i>
Murariu G.	<i>Comparative discussion on models of evaluation for optical properties of Bi₂O₃</i>
Muscato O.	<i>A hydrodynamic model for silicon carbide semiconductors including crystal ...</i>
Nassisi V.	<i>Quantitative effects of RF and magnetic pulses on drosophila model</i>
Norizoe Y.	<i>Two-dimensional microphase separation of single-component homopolymer brushes</i>
Ogushi F.	<i>Reliability of cell fate decision using a simple multiple cell model with inhibitory interaction</i>
Oh G.	<i>Portfolio selection using complex network</i>
Oliveira J.G.	<i>Structure of viable clusters in interdependent networks</i>
Palmisano C.	<i>The ellipsoidal nested sampling and the expression of the model uncertainty in measurements</i>

Papageorgiou H.	<i>Eliciting praise and criticism from positive and negative Sentiments</i>
Paradisi P.	<i>A renewal model for the Superconcentration Effect</i>
Paradisi P.	<i>Statistical analysis of time series in anomalous diffusion generated by fractal intermittency</i>
Park J.-M.	<i>Evolution dynamics of a model for gene duplication under adaptive conflict</i>
Petrakis M.P.	<i>Non-stationary covariance functions based on local interaction models.</i>
Ramirez J.E.	<i>Random walks in random media</i>
Razzitte A.C.	<i>A non equilibrium thermodynamic model for ferroelectric hysteresis</i>
Rosales D.	<i>Diffusion constants to reaction-spreading on random clusters</i>
Rossignoli R.	<i>Dynamics of entanglement between two harmonic modes in stable and unstable regimes</i>
Rutkevich S.B.	<i>Baryon masses in the three-state Potts field theory in a weak magnetic field</i>
Santalla S.N.	<i>Random geometry and the KPZ universality class</i>
Shimokawa M.	<i>Experimental study of fractal pattern observed in gravitational instability</i>
Vershelde H.	<i>Thermodynamics of string gas in space-time with horizon</i>
Vieira Ribeiro B.	<i>Two-component Hamiltonian Mean Field Model</i>
Vieira Ribeiro B.	<i>Brownian corrections to particle motion in the XY Hamiltonian Mean Field Model</i>
Voznesenskiy M.	<i>Simulation of canonical properties of quantum systems at finite temperatures by path integral ...</i>
Woelki M.	<i>Queuing model of a traffic bottleneck with bimodal arrival rate</i>
Yevin I.	<i>The model of public transport metropolis in the form of a multilayer network</i>
Yuce C.	<i>Geometric phase in Bos-Einstein condensates</i>