

**Sunday, July 09, 2023**

**IMPERIAL CONGRESS HALL**

**15.00 - 20.00**

**Registration desk**

**Sunday 09**

# Monday, July 10, 2023

## IMPERIAL CONGRESS HALL

08.00 - 11.00

Registration desk

Monday 10

## MINOS MAIN HALL

Plenary		MAIN CONFERENCE	Monday 10
11.45 - 12.00	Kaniadakis G.	<i>Welcome Addresses &amp; Opening Ceremony</i>	Chair Argyrakis P.
12.00 - 12.10	Metzler R.	<i>European Physical Society</i>	
12.10 - 12.20	Major of Chania	<i>Chania municipality</i>	
12.20 - 12.30	Kaniadakis G.	<i>Sigmaphi Prizes Cerimony</i>	
12.30 - 13.00	Group Photo		
13.00 - 14.30	Break		

## MINOS MAIN HALL

Area A		MAIN CONFERENCE	Monday 10
14.30 - 15.00	Motter A.	<i>Converse symmetry breaking in network dynamics</i>	Chair Saad D.
15.00 - 15.30	Field T.	<i>Dynamical Theory of Spin Noise and Relaxation - Beyond the Lorentzian</i>	
15.30 - 15.50	Kantor Y.	<i>Correlated percolation of sites not removed by a random walker in <math>2 \leq d \leq 6</math> dim....</i>	
15.50 - 16.10	Łeppek M.	<i>Coagulating systems revisited with combinatorial approach - possibilities and....</i>	
16.10 - 16.30	Corberi F.	<i>Ordering kinetics in systems with long-range interactions</i>	
16.30 - 16.50	Dubkov A.	<i>Probability analysis of nonlinear dynamical systems driven by Ornstein-....</i>	
16.50 - 17.10	Randon-furling J.	<i>First-passage time below the diagonal for the Brownian maximum</i>	
17.10 - 17.30	Coffee break		
17.30 - 18.00	Kosztolowicz T.	<i>Application of g-subdiffusion equations with the fractional Caputo time ...</i>	Chair Field T.
18.00 - 18.30	Sollich P.	<i>Exponential increase of transition rates in metastable systems driven by .....</i>	
18.30 - 18.50	Um J.	<i>Coherence-enhanced quantum-dot heat engine</i>	
18.50 - 19.10	Yuste S.B.	<i>Diffusion of an intruder in a molecular/granular gas as a random walk</i>	

## ARIADNE HALL

Area C		MAIN CONFERENCE	Monday 10
15.00 - 15.30	Boccaletti S.	<i>The transition to synchronization of networked systems</i>	Chair Modanese G.
15.30 - 15.50	Deroulers C.	<i>Surprising spatial profiles in steady flows of living cells which polarize to move</i>	
15.50 - 16.10	Gallo A.	<i>Strong, weak or no balance? Testing structural hypotheses against real networks</i>	
16.10 - 16.30	Kim G.	<i>Tradeoff of generalization error in unsupervised learning</i>	
16.30 - 16.50	Wilinski M.	<i>Network reconstruction from noisy and incomplete spreading dynamics</i>	
16.50 - 17.10	Malarz K.	<i>Ranking sequences of continents and countries in affiliations of scientific papers ...</i>	
17.10 - 17.30	Coffee break		
17.30 - 18.00	Modanese G.	<i>Rewiring of scale-free networks vs. degree correlation properties</i>	Chair Tadic B.
18.00 - 18.20	Neda Z.	<i>Gintropic limits and scaling for the Hirsch index</i>	
18.20 - 18.40	Ochab J.	<i>Fractal and multifractal organisation of neuroimaging signals in cognitive tasks and...</i>	
18.40 - 19.00	Xenikos D.	<i>Spatial effects on epidemics diffusion: Network topological characteristics leading ....</i>	
19.00 - 19.20	Tutajewski M.	<i>Classification of short-term memory tasks in ROI-based fMRI data</i>	

## PASIPHAE HALL

Workshop 1		Quantum Physics and Machine Learning	Monday 10
15.00 - 15.20	Caruso F.	<i>Quantum machine learning: overview and perspectives</i>	Chair
15.20 - 15.40	Barkoutsos P.	<i>Quantum scientific machine learning for multiphysics simulations</i>	Nowak M.
15.40 - 16.00	Peano V.	<i>How can a machine automatically discover better feedback strategies for quantum devices?</i>	
16.00 - 16.20	Pittorino F.	<i>Loss landscapes of neural networks through the lens of flat regions and symmetries</i>	
16.20 - 16.40	Ellinas D.	<i>Physics-informed neural network (PINN) for solving quantum master equation....</i>	
16.40 - 17.00	Tsironis G.	<i>Application of machine learning methods in the targeted energy transfer nonlinear model</i>	
17.00 - 17.30	<b>Coffee break</b>		
17.30 - 17.50	Marino R.	<i>Phase transitions in mini-batch size for sparse and dense deep neural networks</i>	Chair
17.50 - 18.10	Nowak M.	<i>From multiplicative matrix-valued diffusion to isometry of residual networks in....</i>	Caruso F.
18.10 - 18.30	Fuchizaki K.	<i>Can memory hysteresis in a neural network judge the continuity/discontinuity ....</i>	
18.30 - 18.50	Giampaolo S.M.	<i>Testing the neural network approach in the presence of topological frustration</i>	

## THESEUS HALL

Special Session 1		Spin glass theory and far beyond	Monday 10
15.00 - 15.20	Lucibello C.	<i>The exponential capacity of modern associative memories</i>	Chair
15.20 - 15.40	Boettcher S.	<i>Finite-size corrections in spin glasses and combinatorial optimization problems</i>	Leuzzi L.
15.40 - 16.00	Malatesta E.M.	<i>Structure and connectivity of solutions in non-convex continuous optimization ....</i>	
16.00 - 16.20	Contucci P.	<i>Disordered systems beyond the permutation symmetry paradigm</i>	
16.20 - 16.40	Mingione E.	<i>On a multiscale mean-field spin glass</i>	
17.00 - 17.30	<b>Coffee break</b>		
17.30 - 17.50	Leuzzi L.	<i>Spin-glass models for random lasers: how to expose the inner structure of the....</i>	Chair
17.50 - 18.10	Niedda J.	<i>Glass and pseudo-localization transitions in the Mode-Locked p-spin model for ....</i>	Martin-Mayor V.
18.10 - 18.30	Perrupato G.	<i>Theory of kinetically-constrained-models dynamics</i>	
18.30 - 18.50	Ricci-Tersenghi F.	<i>Surprises from the out-of-equilibrium dynamics of mean-field spin glasses</i>	
18.50 - 19.10	Bernaschi M.	<i>Large scale simulations of the Ising quantum spin glass transition</i>	
19.10 - 19.30	Nechaev S.	<i>Devil's staircase and modular invariance: from spectral statistics of random ...</i>	
19.30 - 19.50	Prykarpatski A.	<i>On integrable parametric generalization of the Kardar-Parisi-Zhang equation....</i>	

## AMALTHEA HALL

Workshop 8		Thermalization of Nonintegrable Many-Body Systems	Monday 10
14.30 - 14.55	Campbell D.	<i>The metastable state of the Fermi-Pasta-Ulam-Tsingou (FPUT) problem</i>	Chair
14.55 - 15.20	Paleari S.	<i>Approximate integral of motion for macroscopic lattice systems</i>	Flach S.
15.20 - 15.45	Shimizu A.	<i>A key observable that guarantees linear thermalization of all macroscopic ....</i>	
15.45 - 16.10	Lepri S.	<i>Thermalization of isolated harmonic networks under conservative noise</i>	
16.10 - 16.30	Rumpf B.	<i>Cold discrete breathers</i>	
16.30 - 16.50	Danieli C.	<i>Dynamical chaos in the integrable Toda chain induced by time discretization</i>	
16.50 - 17.10	Chiba Y.	<i>Timescale of linear thermalization</i>	
17.10 - 17.30	<b>Coffee break</b>		
17.30 - 17.50	Flach S.	<i>Thermalization universality classes for weakly nonintegrable many-body ...</i>	Chair
17.50 - 18.10	Lando G.	<i>Thermalization of weakly non-integrable Josephson junction networks</i>	Campbell D.
18.10 - 18.30	Makris K.	<i>Optical thermodynamics of nonlinear systems</i>	
18.30 - 18.50	Christodoulidi H.	<i>Energy localisation and dynamics of a mean-field model with non-linear dispersion</i>	
18.50 - 19.10	Many Manda B.	<i>Nonlinear topological edge states: From dynamic delocalization to thermalization</i>	

# MINOTAUR HALL

Workshop 10	Non-Extensive Statistical Mechanics and Kappa Distributions		Monday 10
14.30 - 14.35		<i>Welcome / Introduction</i>	Chair
14.35 - 15.30	Tsallis C.	<i>Inanimate and living matter, Earth &amp; outer space - Why are nonadditive....</i>	Summer D.
15.30 - 15.55	Zhdankin V.	<i>Generalized entropy production and nonthermal particle acceleration in ....</i>	
15.55 - 16.20	Ilić V.	<i>Statistical complexity of kappa distribution</i>	
16.20 - 16.45	Davis S.	<i>Temperature and its uncertainty in nonequilibrium steady state plasmas</i>	
16.45 - 17.10	Livadiotis G.	<i>Entropy defect in thermodynamics</i>	
17.10 - 17.30	<b>Coffee break</b>		
17.30 - 17.55	Summers D.	<i>Kappa distributions and power-law spectra in space plasmas</i>	Chair
17.55 - 18.20	Randol B.	<i>Possible explanation for power law tails of the solar wind ion distribution function....</i>	Nicolaou G
18.20 - 18.45	Pierrard V.	<i>Regularized kappa distributions to model the solar wind electrons</i>	
18.45 - 19.10	Arbutina B.	<i>Kappa distribution as a description of spectrum of supra-thermal particles at ....</i>	
19.10 - 19.30	Davelaar J.	<i>The usage of kappa distributions in the context of accreting black hole modeling</i>	
19.30 - 19.50	Zharkova V.	<i>Pitch-angle distribution of accelerated electrons in 3D current sheets with ....</i>	
19.50 - 20.10	Shen C.	<i>Nonthermal broadening of IRIS FeXXI line caused by turbulent plasma flows in ....</i>	

# Tuesday, July 11, 2023

## MINOS MAIN HALL

Plenary	MAIN CONFERENCE	Tuesday 11
09.00 - 09.40	Kosterlitz J.M. <i>State Selection in Driven Out of Equilibrium Systems – Noisy Stabilized ...</i>	Chair
09.40 - 10.20	Aharony A. <i>The Wilson-Fisher renormalization group after 50 years</i>	Marinari E.
10.20 - 11.00	Kurths J. <i>Stability of power grid concerning tropical cyclones: Increasing resilience by ...</i>	
11.00 - 11.30	<b>Coffee break</b>	

## MINOS MAIN HALL

Area A	MAIN CONFERENCE	Tuesday 11
11.30 - 12.00	Łuczka J. <i>Classical equipartition theorem and its universal quantum counterpart</i>	Chair
12.00 - 12.30	Spiechowicz J. <i>Periodic potential can enormously boost free particle transport induced by ...</i>	Gudowska-Nowak E.
12.30 - 12.50	Mishra P. <i>Structures in a 2D colloids interacting via modified inverse-power potentials ...</i>	
12.50 - 13.10	Nakajima C. <i>Random Field Ising Model for Random Single Vertex Origami</i>	
13.10 - 13.30	Kalogeropoulos N. <i>On the origin of the escort distributions</i>	
13:30 - 15.00	<b>Break</b>	
15.00 - 15.30	Gudowska-Nowak E. <i>Freeness in cognitive science</i>	Chair
15.30 - 16.00	Hanel R. <i>About a curious equivalence: Boltzmann Entropy as measure of information....</i>	Łuczka J.
16.00 - 16.20	Chacon-Acosta G. <i>Fourth-order term effects in the Fick-Jacobs equation for diffusion in narrow....</i>	
16.20 - 16.40	Strecka J. <i>Ising-Heisenberg diamond-decorated square lattice in a magnetic field: exact...</i>	
16.40 - 17.00	Gerasimenko V. <i>On hierarchies of evolution equations for correlations of many quantum ....</i>	
17.00 - 17.30	<b>Coffee break</b>	
Special Session 1	Spin glass theory and far beyond	
17.30 - 17.50	Kent-Dobias J. <i>How to count in hierarchical landscapes: quenched complexity for the....</i>	Chair
17.50 - 18.10	Tonolo T. <i>Marginal stability in the spherical spin-glass: on the competition between ...</i>	Ricci-Tersenghi F.
18.10 - 18.30	Martin-Mayor V. <i>The mystery of rejuvenation and memory in spin-glasses</i>	
18.30 - 18.50	Paga I. <i>On the Nature of Memory in spin glasses</i>	
18.50 - 19.10	Moreno-Gordo J. <i>Numerical study of the six-dimensional Ising spin glass on a field</i>	
19.10 - 19.30	Nicoletti F. <i>Low energy excitations in vector spin glasses</i>	
19.30 - 19.50	Cammarota C. <i>Signal reconstruction in rough landscapes: The BBP transition and beyond</i>	

## ARIADNE HALL

Area B	MAIN CONFERENCE	Tuesday 11
11.30 - 12.00	Kovacs I. <i>Spatial and temporal cluster tomography</i>	Chair
12.00 - 12.30	Eapen J. <i>Phonon Modes in Disordered Systems</i>	Hristopulos D.
12.30 - 12.50	Materassi M. <i>Irregular space plasmas dynamics: entropy production vs fractality</i>	
12.50 - 13.10	Ettori F. <i>The Effects of Defects on Magnetization Reversal Processes</i>	
13.10 - 13.30	Pica Ciamarra M. <i>The energy cost of local rearrangements makes glasses solid</i>	
13:30 - 15.00	<b>Break</b>	
15.00 - 15.30	Son C.Y. <i>Universal dipole correlation in homogeneous bulk and interfacial water</i>	Chair
15.30 - 16.00	Špička V. <i>Non-equilibrium dynamics of open systems, fluctuation-dissipation theorems...</i>	Palmisano C.
16.00 - 16.30	Consolini G. <i>On the nature of space plasma turbulent fluctuations at sub-ion scales: ....</i>	
16.30 - 16.50	Garzó V. <i>Shear viscosity of granular mixtures: Assessment of kinetic theories</i>	
16.50 - 17.10	Kadioğlu S. <i>Locally driven spin collision battery</i>	
17.10 - 17.30	<b>Coffee break</b>	
Meeting	MDPI	Tuesday 11
17.30 - 19.00	Auwerter L. <i>Entropy Editor Meeting</i>	

## PASIPHAE HALL

Area C	MAIN CONFERENCE	Tuesday 11
11.30 - 12.00	Ejtehadi M.R. <i>Evolution in spatially heterogeneous environments</i>	Chair
12.00 - 12.30	Saad D. <i>Message passing for routing and network design in optical communication</i>	Bertotti M.L.
12.30 - 13.00	Serrano M.A. <i>Renormalization of complex networks</i>	
13.00 - 13.30	Talbot J. <i>Application of statistical physics to agroecology: an adsorption-desorption ....</i>	
13:30 - 15.00	<b>Break</b>	
15.00 - 15.20	Alberti T. <i>The predictable chaos of rare events in complex systems</i>	Chair
15.20 - 15.40	Annibale A. <i>Dynamical analysis of sparse Boolean networks</i>	Ejtehadi M.R.
15.40 - 16.00	Ansell H. <i>Signatures of universal criticality in the anatomic structure of the brain</i>	
16.00 - 16.20	Qureshi B. <i>A universal method for analysing copolymer growth</i>	
16.20 - 16.40	Rojas-Ochoa L.F. <i>Non-gaussian diffusion and long-time correlations in the magnetosphere-....</i>	
16.40 - 17.00	Bekiaris S. <i>Small size, high connectance networks – the case of the artistic social....</i>	
17.00 - 17.30	<b>Coffee break</b>	
Workshop 6	Statistical Physics Methods for Power Grids	Tuesday 11
17.30 - 18.00	Motter A. <i>Scalable control and observability: Power grids and other large-scale networks</i>	Chair
18.00 - 18.30	Meyer-Ortmanns H. <i>Methods of dimensional reduction to assess rare events of blackouts in power...</i>	Odor G.
18.30 - 18.55	Oberhofer U. <i>Data-driven stochastic modelling of power-grid</i>	
18.55 - 19.20	Rydin Gorjão L. <i>The complexity of power-grid frequency dynamics – An application in....</i>	Chair
19.20 - 19.45	Odor G. <i>Non-local synchronization and electric power-grid outages</i>	Beck C.
19.45 - 20.10	Papp O. <i>Study of heterogeneity effects in power grid networks on the community level</i>	

## THESEUS HALL

Area A	MAIN CONFERENCE	Tuesday 11
11.30 - 12.00	Skokos H. <i>Numerical investigation of spatiotemporal chaos in nonlinear lattice models</i>	Chair
12.00 - 12.20	Ovchinnikov I. <i>Dynamics Beyond Statistics and Topological Supersymmetry</i>	Flach S.
12.20 - 12.40	Paillusson F. <i>Ergodicity in theory and in practice</i>	
13:00 - 15.00	<b>Break</b>	
Workshop 3	Complex Networks: Hidden Geometry and Dynamics	Tuesday 11
15.00 - 15.30	Serrano M.A. <i>Detecting the ultra low dimensionality of real networks</i>	Chair
15.30 - 16.00	Eroglu D. <i>Reconstruction of Complex Networks Dynamics from Data: Emergent</i>	Tadic B.
16.00 - 16.30	Morozov A. <i>From networks to spin glasses: Machine learning and statistical inference</i>	
16.30 - 16.50	Biham O. <i>The distribution of cover times of random walks on random regular graphs</i>	
16.50 - 17.10	CheonT. <i>Phase transition in urban agglomeration and segregation</i>	
17.10 - 17.30	<b>Coffee break</b>	
17.30 - 18.00	Soresina C. <i>Cross-diffusion-induced instability on networks</i>	Chair
18.00 - 18.30	Shapoval A. <i>Bak-Tang-Wiesenfeld Sandpile as the Mechanism that Generates the</i>	Dankulov M.M.
18.30 - 18.50	Draskovic-Bracun A. <i>Acoustic metafluids based on random microstructure networks</i>	
18.50 - 19.10	Moelter J <i>Preserving Bifurcations through Moment Closures</i>	
19.10 - 19.30	Bertotti M.L. <i>Innovation diffusion and Bass model on complex networks</i>	
19.30 - 20.00	Gupte N. <i>Climate network analysis of extreme events: Tropical Cyclones</i>	

## AMALTHEA HALL

Area A		MAIN CONFERENCE	Tuesday 11
11.30 - 12.00	Wada T.	<i>The gradient-flow equations in information geometry: some approaches from...</i>	Chair
12.00 - 12.30	Matsuzoe H.	<i>Invariant and dually flat information geometric structure for deformed ....</i>	Jizba P.
12.30 - 12.50	Tuncer A.	<i>Quantum superposition states: Spin-glasses and magnetic classification over...</i>	
12.50 - 13.10	Bianucci M.	<i>A generalized definition of cumulants, including operators, to obtain statist....</i>	
13:00 - 15:00	<b>Break</b>		
Workshop 2		Data Science and Econophysics	Tuesday 11
15.00 - 15.30	Podobnik B.	<i>The new wealth of nations: How STEM fields generate the prosperity and ....</i>	Chair
15.30 - 15.50	Briola A.	<i>Dependency structures in cryptocurrency market from high to low frequency</i>	Argyris P.
15.50 - 16.10	Gontis V.	<i>Understanding the nature of memory in the order flow of financial markets</i>	
16.10 - 16.30	Kanazawa K.	<i>Quantitative empirical verification of the Lillo-Mike-Farmer hypothesis for.....</i>	
16.30 - 16.50	Makowski M.	<i>A special model of risk based on Radon Transform</i>	
17.10 - 17.30	<b>Coffee break</b>		
17.30 - 17.50	Piotrowski E.	<i>The maximum of financial greed for the algorithm of two agents cooperation</i>	Chair
17.50 - 18.10	Rydin Gorjão L.	<i>Persistence, multifractality, and complexity of the German weather-driven .....</i>	Gontis V.
18.10 - 18.30	Araneda A.	<i>A multifractional option pricing formula</i>	
18.30 - 18.50	Loukeris N.	<i>Optima performance on neural and hybrid networks</i>	

## MINOTAUR HALL

Area A		MAIN CONFERENCE	Tuesday 11
11.30 - 12.00	Tempesta P.	<i>Permutation group entropy: A new route to complexity for real-valued processes</i>	Chair
12.00 - 12.30	Imparato A.	<i>A quantum thermodynamics approach to optimization in complex systems</i>	Oliveira F.
12.30 - 12.50	Trombettoni A.	<i>Tilted 1D Bose gases and atomtronics</i>	
12.50 - 13.10	Maynar P.	<i>Dynamics of an inelastic tagged particle under strong confinement</i>	
13:10 - 15:00	<b>Break</b>		
Workshop 10		Non-Extensive Statistical Mechanics and Kappa Distributions	Tuesday 11
15.00 - 15.30	McComas D.	<i>The outer heliosphere: A zoo of nonequilibrium plasmas</i>	Chair
15.30 - 15.55	Gkioulidou M.	<i>On the energization of pickup ions downstream of the heliospheric termination...</i>	Yoon P.
15.55 - 16.20	Elliott H.	<i>Relationships between solar wind parameters</i>	
16.20 - 16.45	Salem C.	<i>New insights on solar wind electrons at 1 AU: Collisionality, heat flux, and ....</i>	
16.45 - 17.10	Malandraki O.	<i>Unexpected energetic particle observations near the sun by parker solar....</i>	
17.10 - 17.30	<b>Coffee break</b>		
17.30 - 18.00	Ho G.	<i>Energetic and suprathermal particle measurement at the inner heliosphere</i>	Chair
18.00 - 18.25	Balasis G.	<i>Investigation of dynamical complexity in Swarm-derived geomagnetic activity...</i>	Dayeh M.
18.25 - 18.50	Katsavrias C.	<i>Acceleration and loss of relativistic electrons in the outer radiation belt - ....</i>	
18.50 - 19.15	Hoshino M.	<i>Energy partition of thermal and nonthermal particles for a composed....</i>	
19.15 - 19.40	Danos G.	<i>Spacecraft "Clusters" for space weather studies</i>	
19.40 - 20.10	Daglis I.	<i>Space weather predictability</i>	

# Wednesday, July 12, 2023

## MINOS MAIN HALL

	Plenary	MAIN CONFERENCE	Wednesday 12
09.00 - 09.40	Löwen H.	<i>Inertial effects in active matter</i>	Chair
09.40 - 10.20	Geisel T.	<i>Musicians' Synchronization and the Mystery of Swing in Jazz</i>	Aharony A.
10.20 - 11.00	Marinari E.	<i>Memory and dreaming in the Hopfield model</i>	
11.00 - 11.30	<b>Coffee break</b>		

## MINOS MAIN HALL

	Area A	MAIN CONFERENCE	Wednesday 12
11.30 - 12.00	Metzler R.	<i>Long-range correlated processes: confinement, heterogeneity, &amp; tempering</i>	Chair
12.00 - 12.30	Jizba P.	<i>A new class of entropy-power-based uncertainty relations</i>	Ilić V.
12.30 - 12.50	Malarz K.	<i>Searching for universal formula for percolation threshold on two-dimensional ....</i>	
12.50 - 13.10	Morikawa M.	<i>A simple model of 1/f fluctuations from amplitude modulation and demodulation</i>	
13.10 - 13.30	Fang X.	<i>High-dimensional central limit theorem by Stein's method</i>	
13:30 - 15.00	<b>Break</b>		
15.00 - 15.30	Sollich P.	<i>Bringing together two paradigms of non-equilibrium: Driven dynamics of aging ....</i>	Chair
15.30 - 15.50	López J.M.	<i>Lyapunov vectors and the energy levels of the directed polymer in random media</i>	Malarz K.
15.50 - 16.10	Tsori Y.	<i>Generic mean-field model for phase transitions in nonuniform forces</i>	
16.10 - 16.30	Field T.	<i>Dynamics of an entangled state under random magnetic fields</i>	
16.30 - 16.50	Shchur L.	<i>Effect of anisotropy on critical temperature estimation using machine learning</i>	
16.50 - 17.10	Schreiber N.	<i>Ensemble dependence of the critical behavior of a system with long range ....</i>	
17.10 - 17.30	<b>Coffee break</b>		
	Workshop 3	Complex Networks: Hidden Geometry and Dynamics	Wednesday 12
17.30 - 18.00	Odor G.	<i>Higher-order interactions generate mixed order phase transition and Griffiths....</i>	Chair
18.00 - 18.30	Dankulov M.M.	<i>Complex networks analysis of time-series data: finding patterns in socio-....</i>	Gupte N.
18.30 - 18.50	Liang X.S.	<i>Measuring the importance of individual units to the structure integrity of a ....</i>	
18.50 - 19.10	Hlinka J.	<i>Hidden geometry of brain dynamics revealed by persistent homology</i>	
19.10 - 19.30	Watorek M.	<i>Decomposition of cross-correlation networks by means of the concept of q-MST</i>	
19.30 - 20.00	Tadic B.	<i>Emergence of modulated cycles in critical dynamics</i>	



## ARIADNE HALL

Workshop 9		Fifty years of the renormalization group	Wednesday 12
11.30 - 12.00	Kosterlitz J.M.	Exact results from approximate theories at critical points from a renormalization ...	Chair
12.00 - 12.30	A. Aharony	Open questions on the random field Ising model	Beck C.
12.30 - 13.00	Delfino G.	Universality in nonequilibrium quantum dynamics	
13.00 - 13.30	Dudka M.	Phase transitions in three-dimensional random anisotropy Heisenberg magnets	
13:30 - 15.00	<b>Break</b>		
Workshop 7		Fluctuations in Physics	Wednesday 12
15.00 - 15.20	Barkai E.	<i>Packets of spreading particles exhibit universal exponential tails</i>	Chair
15.20 - 15.40	Dantchev D.	<i>On ensemble dependence of fluctuation-induced forces: Exact results for ....</i>	Rubi M.
15.40 - 16.00	Fariás C.	<i>Temperature distribution in finite systems: Application to the one-dimensional ....</i>	
16.00 - 16.20	Franosch T.	<i>Nonlinear response in dilute colloidal suspensions beyond the fluctuation-....</i>	
16.20 - 16.40	Ghim C.	<i>Anomalous relaxation of a brownian particle in active baths</i>	
16.40 - 17.00	Ghosh A.	<i>Coupled dynamical phase transitions in driven disk packings</i>	
17.00 - 17.30	<b>Coffee break</b>		
17.30 - 17.50	Morikawa M.	<i>Verifications of the origin of 1/f noise -Earthquakes, solar flare, and variable ....</i>	Chair
17.50 - 18.10	Rubi M.	<i>Stochastic resonance for an optimal transport of active particles</i>	Barkai E.
18.10 - 18.30	Oliveira F.	<i>Dynamics, fractal geometry and fluctuation-dissipation relations in the Kardar....</i>	
18.30 - 18.50	Mozyrsky D.	<i>Phase transition in fluctuations of interacting spins at infinite temperature</i>	
18.50 - 19.10	Mukherjee A.	<i>Dynamic correlations in the conserved Manna sandpile</i>	
19.10 - 19.30	Park H.	<i>Classical speed limit and finite-time Landauer's bound</i>	
19.30 - 19.50	Rodriguez-Fernandez E.	<i>Nonequilibrium critical dynamics: upturns from surface kinetic roughening</i>	
19.50 - 20.10	Reis F.	<i>Universal superdiffusion of random walks on lattices with low diffusivity fractal...</i>	

## PASIPHAE HALL

Area C		MAIN CONFERENCE	Wednesday 12
11.30 - 11.50	Burina E.	Modeling hybrid economic systems - money and tokens as incentives for ...	Chair
11.50 - 12.10	Colombini G.	<i>Equivalence of solitonic solutions in a neuron chain and single neuron delay ....</i>	Talbot J.
12.10 - 12.30	Saad D.	<i>Pandemics, marketing and opinion formation – the power of spreading processes</i>	
12.30 - 12.50	Kollas K.	<i>An improved indicator for causal interactions in non-linear systems</i>	
12.50 - 13.10	Lombardi F.	<i>Explaining the coexistence of oscillations and scale-free avalanches in resting ....</i>	
13.10 - 13.30	Mitsokapas E.	<i>Decision-making with distorted memory: Escaping the trap of past experience</i>	
13:30 - 15.00	<b>Break</b>		
Special Session 2		Entropies and Correlations in Complex Systems	Wednesday 12
15.00 - 15.10		<i>Welcome words by the Special Session organizers</i>	Chair
15.10 - 15.40	Wada T.	<i>Nonlinear constitutive relations by using some deformed functions</i>	Jizba P.
15.40 - 16.10	Ván P.	<i>Extensivity of thermodynamic bodies, weak nonlocality of continua and ...</i>	
16.10 - 16.40	Quevedo H.	<i>Quasi-homogeneous black hole thermodynamics</i>	
16.40 - 17.10	Ilić V.	<i>Super-additivity, generalized concavity and quasi-homogeneity in non-additive systems</i>	
17.10 - 17.30	<b>Coffee break</b>		
17.30 - 18.00	Tirnakli U.	<i>Characterization of degree and energy distributions in asymptotically ...</i>	Chair
18.00 - 18.30	Tsallis C.	<i>Statistical mechanics for complex systems – news and views</i>	Loos S.
18.30 - 19.00	Beck C.	<i>Heavy-tailed distributions from superstatistics: Recent applications for power ...</i>	
19.00 - 19.20	Somazzi A.	<i>Learn your entropy from informative data: an axiom ensuring the consistent ...</i>	
19.20 - 19.40	Srdinsek M.	<i>Rényi entropy of quantum anharmonic chain at non-zero temperature</i>	
19.40 - 20.00	Barbosa F.	<i>Residual entropy in the repulsive one-dimensional lattice model of liquid water</i>	

## THESEUS HALL

Workshop 4		Climate and Environments	Wednesday 12
11.30 - 11.50	Livina V.	<i>Statistical physics approach in tipping point analysis</i>	Chair Blesic S.
11.50 - 12.10	Ludescher J.	<i>Forecasting El Niño well before the spring predictability barrier</i>	
12.10 - 12.30	Yuan N.	<i>On the global warming projection: a new approach based on scaling theory</i>	
12.30 - 12.50	Wang B.	<i>Assessing the impact of climate change on fungal pathogens and insect pests ....</i>	
12.50 - 13.10	Blesic S.	<i>Characterization of meteorological drivers for incidences of malaria in South Africa</i>	
13.10 - 13.30	Bianucci M.	<i>Linear or Nonlinear Modeling for ENSO Dynamics?</i>	
<b>Break</b>			
15.00 - 15.20	Venturi D.	<i>Approximation of functional differential equations</i>	Chair Hristopulos D.
15.20 - 15.40	Liang X.S.	<i>Causality as a real physical notion ab initio, and causality analysis in climate and...</i>	
15.40 - 16.00	Žukovič M.	<i>Spin models for efficient prediction of massive spatial data</i>	
16.00 - 16.20	Nerantzaki S.	<i>Interpolation of large precipitation fields with space and space-time stochastic...</i>	
16.20 - 16.40	Hristopulos D.	<i>Boltzmann-Gibbs distributions and applications to data-driven modeling</i>	
16.40 - 17.00	Reis F.	<i>Modeling the deep abiotic weathering of pyrite</i>	
<b>Coffee break</b>			
17.30 - 17.50	Zharkova V.	<i>Periodicities in solar activity, solar radiation and their links with terrestrial ....</i>	Chair Zukovic M.
17.50 - 18.10	Gentili S.	<i>A machine learning approach for strong aftershock forecasting by the NESTORE...</i>	
18.10 - 18.30	Marder M.	<i>Solvable model for the decline of unconventional oil and gas</i>	

## AMALTHEA HALL

Workshop 5		Statistical Physics of Biophysical Systems	Wednesday 12
11.30 - 12.00	Fedotov S.	<i>Ensemble self-reinforcement and strong memory effects for the anomalous ...</i>	Chair Hatzikirou H.
12.00 - 12.23	Deo N.	<i>Mutations in Protein Family Networks</i>	
12.23 - 12.45	Fiasconaro A.	<i>Analytical extension/force curve of the freely jointed chain (FJC) and the ...</i>	
12.45 - 13.07	Sung B.	<i>The non-equilibrium nature of the packaging and the ejection processes of viral DNA</i>	
<b>Break</b>			
15.30 - 15.53	Baek Y.	<i>Symmetry-breaking motility and diffusion of a porous object immersed in an...</i>	Chair Deutsch A.
15.53 - 16.16	Frydel D.	<i>The entropy production rate for active matter</i>	
16.16 - 16.39	Hatzikirou H.	<i>On a theory of cell decision-making for multicellular systems</i>	
16.39 - 17.02	Sung J.	<i>Nonclassical Chemical Dynamics in Living Cells and Complex Material Systems</i>	
<b>Coffee break</b>			
17.30 - 18.00	Deutsch A.	<i>Cancer invasion and progression: insights from agent-based models</i>	Chair Fedotov S.
18.00 - 18.23	Po H.F.	<i>Inferring structure from firing patterns of cortical neural networks</i>	
18.23 - 18.45	Spiliotis K.	<i>Combining topological data analysis with equation-free methods to analyse ...</i>	
18.45 - 19.08	Corominas-murtra B.	<i>Phase transitions in embryo morphogenesis</i>	

# MINOTAUR HALL

Area B		MAIN CONFERENCE		Wednesday 12
11.30 - 12.00	Hyeon C.	<i>Irregularity of polymer domain boundaries in two dimensional polymer solution</i>	Chair Spicka V.	
12.00 - 12.20	Constantoudis V.	<i>The challenge of nanostochasticity: Complexity concepts and methods in the....</i>		
12.20 - 12.40	Papia E.-M.	<i>Entropy and complexity analysis of AI-generated and human-made paintings</i>		
12.40 - 13.00	Kim K.-W.	<i>Monte Carlo method for active particle dynamics with thermodynamic consistency</i>		
13.00 - 13.20	Lauditi C.	<i>Learning through atypical "phase transitions" in overparameterized neural ....</i>		
13:20 - 15.00	<b>Break</b>			
Workshop 10		Non-Extensive Statistical Mechanics and Kappa Distributions		Wednesday 12
15.00 - 15.25	Kourakis I.	<i>Nonlinear electrostatic waves in non-Maxwellian space plasmas: overview of....</i>	Chair Viviane P.	
15.25 - 15.45	Lazarides N.	<i>Coupled electrostatic wavepackets in plasmas: on the role of kappa-distributed....</i>		
15.45 - 16.10	Munoz V.	<i>Parametric decays of electromagnetic waves in electron-positron nonextensive...</i>		
16.10 - 16.30	Qureshi N.	<i>Electromagnetic ion cyclotron waves and associated ion velocity distributions: ....</i>		
16.30 - 16.50	Da Silveira F.	<i>Langmuir waves in kappa plasmas</i>		
16.50 - 17.10	Yoon P.	<i>Generation of regularized kappa electron velocity distribution function by ....</i>		
17.10 - 17.30	<b>Coffee break</b>			
17.30 - 18.00	Consolini G	<i>Markov features and kappa distribution of magnetic field fluctuations at ion/sub....</i>	Chair Gkioulidou M.	
18.00 - 18.20	Dialynas K.	<i>Energetic H+ and O+ Moments and Polytropic Index in the Kronian Magnetosphere...</i>		
18.20 - 18.40	Ntormousi E.	<i>Global MHD galaxy simulations: feedback, non-equilibrium chemistry and the ....</i>		
18.40 - 19.05	Vallianatos F.	<i>Gutenberg-Richter, Omori and Cumulative Benioff strain patterns in view of ....</i>		
19.05 - 19.25	Ellinas D.	<i>Quantum computational approach based on quantum <math>\kappa</math>-entropy</i>		
19.25 - 19.45	Kalogeropoulos N.	<i>Power law entropies for parabolic systems?</i>		
19.45 - 20.10	Sarlis N.	<i>Recent advances on statistical physics of earthquakes by combining natural time....</i>		

# Thursday, July 13, 2023

## MINOS MAIN HALL

Plenary		MAIN CONFERENCE	Thursday 13
09.00 - 09.40	Dandouras I.	<i>Atmospheric ion escape: contribution to the early evolution of the terrestrial atmosphere</i>	Chair
09.40 - 10.20	Hoshino M.	<i>Nonthermal particle acceleration and energy partitioning of thermal and nonthermal...</i>	Ruppeiner G.
10.20 - 11.00	Dasgupta C.	<i>Glassy dynamics and jamming in persistent active matter</i>	
11.00 - 11.30	Coffee break		

## MINOS MAIN HALL

Area A		MAIN CONFERENCE	Thursday 13
11.30 - 11.50	Niemi A.	<i>Molecular motors and Brownian time crystals</i>	Chair
11.50 - 12.10	Nikolietatos N.	<i>Nonlinear and non-local FPK equation for probabilistic response of nonlinear systems ....</i>	Wada T.
12.10 - 12.30	Nowak M.	<i>Eikonal formulation of large dynamical random matrix models</i>	
12.30 - 12.50	Curado E.	<i>Relativistic gas: Lorentz-invariant distribution for the velocities</i>	
12.50 - 13.10	Johal R.	<i>Spin based Quantum Otto engines and majorization</i>	
13:10 - 15.00	Break		

## ARIADNE HALL

Area B		MAIN CONFERENCE	Thursday 13
11.30 - 11.50	Maciolek A.	<i>Continuous non-equilibrium transition driven by the heat flow</i>	Chair
11.50 - 12.10	Obliger A.	<i>Volterra equations to compute memory kernels and projected cross-correlation....</i>	da Silva S.L.
12.10 - 12.30	Katsavrias C.	<i>Acceleration and loss of relativistic electrons in the outer radiation belt:....</i>	
12.30 - 12.50	Qiao Z.	<i>Integrable peakon models - Scalar case</i>	
13:00 - 15.00	Break		
15.00 - 15.20	Trombettoni A.	<i>Ultracold atoms for quantum sensing and quantum technologies</i>	Chair
15.20 - 15.40	Edet C.	<i>Entropy production rate of a nonlinear hybrid quantum optomechanical system</i>	Maciolek A.
15.40 - 16.00	Tamburrini A.	<i>Non-equilibrium statistical mechanics tool for the study of space plasma; ....</i>	
16.00 - 16.20	Defenu N.	<i>Effective theories in quantum dynamics: the Kibble-Zurek mechanism</i>	
16.20 - 16.40	Subashri V.	<i>Exact calculation of the probabilities of rare events in cluster-cluster aggregation</i>	
17.00 - 17.30	Coffee break		

## PASIPHAE HALL

Area C		MAIN CONFERENCE	Thursday 13
11.30 - 11.50	Watanabe H.	<i>Empirical observations of ultraslow diffusion driven by the fractional dynamics in languages.</i>	Chair Kovacs I.
11.50 - 12.10	Torrisi G.	<i>Inference of Boolean networks from perturbation data</i>	
12.10 - 12.30	Bazzani A.	<i>Stochastic dynamics on graphs and congestion in transport systems: predictive models and..</i>	
12.30 - 12.50	Wątorrek M.	<i>Nonlinear correlations in EEG signals</i>	
12.50 - 13.10	Papp I.	<i>Synchronization and criticality in brain models</i>	
13:10 - 15.00	<b>Break</b>		
Special Session 2		Entropies and Correlations in Complex Systems	Thursday 13
17.10 - 17.30	<b>Coffee break</b>		
17.30 - 18.00	Campa A.	<i>Synchronization properties of noisy coupled Kuramoto oscillators under ...</i>	Chair Hannel R.
18.00 - 18.30	Loos S.A.M.	<i>Stochastic thermodynamics of a particle in a correlated field</i>	
18.30 - 19.00	Corominas-Murtra B.	<i>Typicality, stochastic dynamics and generalized statistical mechanics</i>	
19.00 - 19.20	Bohinc K.	<i>Orientalional ordering of molecules near a charged spherical surface</i>	
19.20 - 19.40	Olguín-Arias V.	<i>A statistical approach to diffusion and waiting times in the problem of melting solids</i>	
19.40 - 20.00	Aizenman M.	<i>A dichotomy for planar loop systems with implications for classical and quantum ....</i>	

## THESEUS HALL

Special Session 3		Holographic and other cosmologically relevant entropies	Thursday 13
11.30 - 11.40	<i>Welcome words by the Special Session organizers</i>		Chair Kirchner S.
11.40 - 12.00	Saridakis E.N.	<i>Gravity-thermodynamics connection and holographic dark energy, with generalized entropies</i>	
12.00 - 12.30	Tsallis C.	<i>Extensive nonadditive entropies for black holes and cosmology</i>	
12.30 - 12.50	Smaldone L.	<i>Bekenstein bound from the Pauli principle</i>	
12.50 - 13.10	Luciano G.	<i>Baryon asymmetry from Barrow entropy: theoretical predictions and observational ....</i>	
13:00 - 15.00	<b>Break</b>		
15.00 - 15.20	Beck C.	<i>Information shift dynamics described by Tsallis <math>q=3</math> entropy on a compact phase ...</i>	Chair Saridakis E.N.
15.20 - 15.40	Jizba P.	<i>Decoherence limit of quantum systems obeying generalized uncertainty principle: new ...</i>	
15.40 - 16.00	Zamora J.	<i>Thermodynamical consistency of entropic cosmological models</i>	
16.00 - 16.20	Kirchner S.	<i>Probing quantum phase transitions through entropy in boundary-critical models</i>	
16.20 - 16.40	Ván P.	<i>Classical holography</i>	
16.40 - 17.00	Giaccari S.G.	<i>Renormalization group irreversibility in conformal gravity</i>	
17.00 - 17.30	<b>Coffee break</b>		

## AMALTHEA HALL

Special Session 4		Quantum Long-Range Systems	Thursday 13
11.30 - 11.50	Trombettoni A.	<i>Criticality and Phase Diagram of Quantum Long-Range Systems</i>	Chair Trombettoni A.
11.50 - 12.10	Campa A.	<i>The unconstrained ensemble and its use in the study of quantum and classical nonadditive...</i>	
12.10 - 12.30	Marcos B.	<i>Experimental observation of violent relaxation and the formation of out-of-equilibrium...</i>	
12.30 - 12.50	Defenu N.	<i>Long-range interacting quantum systems</i>	
12.50 - 13.10	Giuliano D.	<i>Current transport properties and phase diagram of a Kitaev chain with long-range pairing</i>	
13:10 - 15.00	<b>Break</b>		

## MINOTAUR HALL

Workshop 10		Non-Extensive Statistical Mechanics and Kappa Distributions	Thursday 13
11.30 - 12.00	Antiochos S.	<i>The self-organization of the sun's corona</i>	Chair Elliott H.
12.00 - 12.25	Fleishman G.	<i>Solar flare science with microwave imaging spectroscopy</i>	
12.25 - 12.50	Dzifčáková E.	<i>Effects of electron density and multiple ionization on the ionization equilibrium - the....</i>	
12.50 - 13.10	Zhong J.	<i>Turbulence magnetic reconnection experiments driven by intense lasers</i>	
13.10 - 13.30	Gontikakis C.	<i>Emission measure analysis of the transition region of solar flare structures</i>	
13:30 - 15.00	<b>Break</b>		
15.00 - 15.25	Dandouras I.	<i>Space plasma physics from Moon orbit: opportunities provided by the Lunar Gateway</i>	Chair Livadiotis G.
15.25 - 15.45	Dayeh M.	<i>Polytropic behavior in the substructure of interplanetary Coronal Mass Ejections</i>	
15.45 - 16.05	Starkey M.	<i>Polytropic behavior in the compressed solar wind</i>	
16.05 - 16.25	Hristopoulos D.	<i>Applications of Kaniadakis functions beyond statistical mechanics</i>	
16.25 - 16.50	Nicolaou G.	<i>Kappa Distributions in space plasmas: Review of methods and applications</i>	
16.50 - 17.10	Livadiotis G.	<i>Kappa distributions: Connection with thermodynamics</i>	
17.10 - 17.30	<b>Coffee break</b>		

## LABYRINTHUS

Poster Session		Thursday 13
17.30 - 19.00		

Friday, July 14, 2023

MINOS MAIN HALL

Plenary		MAIN CONFERENCE	Friday 14
08.20 - 09.00	Rubi M.	<i>Entropic transport in confined soft-matter and biological systems</i>	Chair
09.00 - 09.40	Ruppeiner G.	<i>Pure fluids to black holes: thermodynamics probes microstructures</i>	Metzler R.
09.40 - 10.20	Barkai E.	<i>Boltzmann-Gibbs statistics meets infinite ergodic theory</i>	
10.20 - 11.00	Campbell D.	<i>The Fermi Pasta Ulam Tsingou (FPUT) paradox: The birth of nonlinear science</i>	
11.00 - 11.30	Coffee break		

MINOS MAIN HALL

Plenary		Closing Ceremony	Friday 14
11.30 - 12.00	Kaniadakis G.	<i>Sigmaphi awards</i>	Chair Argyarakis P.

Thursday, July 13, 2023

## LABYRINTHUS

### Poster section

Posters will be exposed in the LABYRINTHUS ROOM from Monday 08.30

Poster discussion will be held Thursday from 17.30 - 19.00

Abbasiv M.M.	<i>Nonlinear ion acoustic waves in dissipative and dispersive magneto-rotating relativistic plasmas with two....</i>
Camporeale C.	<i>A mesoscopic numerical approach to active matter</i>
Cao García F.J.	<i>Dispersal-induced resilience to stochastic environmental fluctuations in populations with Allee effect</i>
Cao García F.J.	<i>Predictability of population fluctuations</i>
Capolupo A.	<i>Fermion mixing in curved spacetime and dark matter</i>
Chang R.	<i>Application of nonequilibrium thermodynamics to polymer collapse dynamics</i>
Contreras Reynoso A.	<i>Normal quantum channels</i>
Crespo M. R.	<i>Single-stranded DNA-binding protein kinetics: theory and experiments.</i>
da Silva S.L.	<i>A <math>\kappa</math>-generalized Wasserstein metric in the graph-space for seismic waveform inversion issues</i>
Demyanenko E.	<i>Measuring the simplicity of neural networks as a function of overparametrization</i>
Du Plessis J.-J.	<i>Instantaneous Lyapunov Vectors in DNA</i>
Fuchizaki K.	<i>A new universal dynamics preceding the early stage of spinodal decomposition</i>
García de Soria M.I.	<i>Kinetic theory of a confined quasi-one-dimensional gas of hard disks</i>
Gergely A.	<i>Fluctuations of CO2 concentration inside a mofette long-term, high-frequency monitoring and a simple model.</i>
Gervino G.	<i>Direct nuclear cross section measures at Big Bang energies and the cosmological lithium problem</i>
Gervino G.	<i>Human health risk estimation from indoor radon measurements</i>
Giannakis O.	<i>TACTICIAN: AI-based applications for knowledge extraction from ESA's missions' scientific publications</i>
Grande M.A.F.	<i>Information in feedback ratchets</i>
Haldar A.	<i>Active XY model on a substrate: Density fluctuations and phase ordering</i>
Horizumi K.	<i>The gradient-flow equations in information geometry and electric circuits.</i>
Janarek J.	<i>How do strokes affect the brain's critical state? Structural and functional aspects of the loss of connectome ....</i>
Johal R.	<i>Thermoelectric generator in endoreversible approximation: The effect of heat-transfer law under finite physical ....</i>
Karlova K.	<i>Frustrated magnetism of a quantum mixed spin-(1, 1/2) Heisenberg octahedral chain from a statistical- ....</i>
Kelemen S.	<i>Handling incomplete information: Gini coefficient from coarse-grained data</i>
Király B.	<i>A game-theory-inspired reinvestigation of the Blume-Capel model</i>
Knap J.	<i>Physical consequences of non-additive and non-extensive entropies</i>
Krasnytska M.	<i>Potts model with invisible states: changeover to the percolation transition</i>
Krasnytska M.	<i>Individual bias and fluctuations in collective decision making: analytical results and simulations</i>
Krishnan G.	<i>Relaxation dynamics in classical and quantum supercooled liquids</i>
Łepke M.	<i>Can we predict performance of diffusion source localization using navigability?</i>
Mohlyna M.	<i>Skyrmion phase in a frustrated triangular lattice with next-nearest neighbours</i>
Palmisano C.	<i>Bayesian expectation of the mean power of several gaussian data</i>
Paraskakis N.	<i>Modeling the number of sunspots using machine learning</i>
Quaranta A.	<i>Axion-like particles and fifth force with neutron interferometry</i>
Ramírez Yañez A.	<i>Studying the stability of a quantum chaotic system at finite temperature via coupling to a 2-level probe</i>
Ravoni A.	<i>Thermodynamic efficiency of autocatalytic networks</i>
Sáinz-agost A.	<i>Polymer translocation driven by transversal and time-dependent end-pulled forces.</i>
Samboni B V.A.	<i>Anomalous sedimentation of erythrocytes in dilute solutions</i>
Separdar L.	<i>Nucleation kinetics in supercooled ZnSe: Computer simulation data corroborate the validity of the classical ....</i>
Serao R.	<i>Phenomenological implications of nonlocal electrodynamics</i>
Sirbu A.	<i>Interplay between algorithmic bias and external information effects in opinion dynamics with bounded confidence</i>
Sourpis A.	<i>The effect of strong electric field in case of Acetonitrile and Water mixtures</i>
Taha Sant'Ana F.	<i>Correlation aspects of interacting quantum systems in one dimension</i>
Vargas Carmona J.A.	<i>Scattering in quantum graphs</i>
Villaluenga J.C.	<i>Spatial scales of population synchrony generally increases as fluctuations propagate in a two species ecosystem</i>
Wójcik D.	<i>Magnetospheric multiscale observations of kappa distributions in the magnetosheath on small scales</i>
Zhdankin V.	<i>Dimensional measures of generalized entropy for statistical physics</i>