

II Conference of the Italian Society of Statistical Physics - SIFS

MONDAY, JUNE 20th 2022

9:00 - 9:30	Opening
9:30 - 9:50	Franco Bagnoli - <i>University of Florence</i> Simple model of collaboration or knowledge percolation
9:50 - 10:10	Oriol Artime - <i>Bruno Kessler Foundation</i> Non-Markovian random walks characterize network robustness to nonlocal cascades
10:10 - 10:50	Giulia Cencetti - <i>Bruno Kessler Foundation</i> Neighbourhood matching creates realist surrogate temporal networks
10:50 - 11:30	Coffee Break
11:30 - 11:50	Valentina Buonfiglio - <i>Physiolab - University of Florence</i> A small ensemble of Myosin motors at work: fitting experimental data with a stochastic model
11:50 - 12:10	Marco Benedetti - <i>Sapienza Università di Roma</i> Approaching optical memory retrieval in Hopfield-like networks
12:10 - 12:30	Victor Buendia - <i>University of Tübingen and Max Planck Institute for Biological Cybernetics</i> The excitatory-inhibitory branching process: a parsimonious view of cortical asynchronous states, excitability, and criticality
12:30 - 12:50	Sandro Azaele - <i>University of Padova</i> Pattern and coexistence in ecological communities
12:50 - 14:30	Lunch
14:30 - 14:50	Giada Forte - <i>The University of Edinburgh</i> Statistics and dynamics of plectonemes in braided structures
14:50 - 15:10	Silvia Lazzardi - <i>University of Turin</i> Emergent statistical laws in single-cell transcriptomic data
15:10 - 15:50	Cristian Micheletti - <i>SISSA, Trieste</i> Nonequilibrium thermodynamics of DNA nanopore unzipping
15:50 - 16:50	Coffee Break & Poster Session
16:50 - 17:10	Elisa Floris - <i>Politecnico di Torino</i> Phase separation and critical size in molecular sorting
17:10 - 17:30	Mattia Conte <i>Università di Napoli "Federico II"</i> Polymer physics of chromosome 3D organization
17:30 - 17:50	Andrea Esposito - <i>Università di Napoli "Federico II"</i> Polymer physics reveals a combinational code linking 3d chromatin architecture to 1D chromatin states
17:50 - 18:10	Pablo Villegas Góngora - <i>Centro Ricerche Enrico Fermi (CREF)</i> Laplacian Renormalization Group for heterogeneous networks: information core and entropic transitions

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TUESDAY, JUNE 21st 2022

9:30 - 9:50	Onofrio Mazzarisi - <i>Max Planck Institute for Mathematics in the Science, Leipzig</i> Maximal diversity and Zip's Law
9:50 - 10:10	Alessandro Sarracino - <i>Università della Campania "L. Vanvitelli"</i> Microscopic theory for the diffusion of an active particle in a crowded environment
10:10 - 10:30	Marco Mancastrappa - <i>Centre de Physique Théorique, CNRS, Aix-Marseille Université</i> Epidemics and sideways contact tracing in simplicial temporal networks
10:30 - 10:50	Sebastiano Stramaglia - <i>Università di Bari</i> High order dependencies in complex systems
10:50 - 11:20	Coffee Break
11:20 - 12:00	Tomaz Prosen - <i>University of Ljubljana</i> Exactly solved models of Non-equilibrium many-body physics: from integrability to chaos
12:00 - 12:20	Vincenzo Alba - <i>University of Pisa</i> Entanglement dynamics in dissipative systems
12:20 - 12:40	Sandro Winberger - <i>Parma University</i> Coherent control by driving and compensation
12:40 - 13:00	Guido Giachetti - <i>SISSA, Trieste</i> Fractal structures in higher-order time crystal
13:00 - 14:30	Lunch
14:30 - 14:50	Francesco Camilli - <i>Università di Bologna - École Normale Supérieure</i> A spin-glass perspective on a mismatched inference problem
14:50 - 15:30	Marc Mézard - <i>Università Bocconi di Milano</i> The challenge of structured disorder in statistical physics
15:30 - 16:30	Coffee Break & Poster Session
16:30 - 18:00	Assemblea dei Soci della Società Italiana di Fisica Statistica - SIFS Durante questa sessione avrà luogo l'Assemblea dei Soci della SIFS, riservata ai soci della Società.
18:00	Giorgio Parisi (Online) - <i>La Sapienza Università di Roma</i> Complexity from the point of view of a physicist
20:30	Social Dinner at "Trattoria al Cortile"

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WEDNESDAY, JUNE 22nd 2022

9:30 - 9:50	Pietro Rotondo - <i>INFN Milano</i> Universal mean field upper bound for the generation gap of deep neural networks
9:50 - 10:10	Lorenzo Chicchi - <i>Università di Firenze - INFN</i> Recurrent Spectral Network (RSN): shaping the basin of attraction of a discrete map to reach automated classification
10:10 - 10:50	Chiara Cammarota - <i>La Sapienza Università di Roma</i> Signal reconstruction in rough landscapes: The BBP transition and beyond
10:50 - 11:30	Coffee Break
11:30 - 11:50	Matteo Becchi - <i>SISSA, Trieste</i> Self-assembling olympic gels
11:50 - 12:10	Davide Carbone - <i>DISMA, Politecnico di Torino</i> Time reversal symmetry and nonequilibrium statistical relations in presence of magnetic fields
12:10 - 12:30	Fulvio Baldovin - <i>Università di Padova</i> Polymers critical point originates Brownian non-Gaussian diffusion
12:30 - 12:50	Fabio Cecconi - <i>Istituto Sistemi Complessi-CNR</i> Understanding causation via correlations and linear-response theory
12:50 - 14:30	Lunch
14:30 - 14:50	Duilio De Santis - <i>Università di Palermo</i> Noise-enhanced stability of breathers in a stochastic sine-Gordon system
14:50 - 15:30	Stefano Lepri - <i>ISC CNR Firenze</i> Thermalization of isolated harmonic networks under conservative noise
15:30 - 16:00	Coffee Break
16:00 - 16:20	Michele Campisi - <i>NEST, Istituto Nanoscience-CNR and Scuola Normale Superiore</i> Spontaneous fluctuation-symmetry breaking and the landauer principle
16:20 - 16:40	Gianmaria Falasco <i>Università di Padova</i> Thermodynamic constraints on nonequilibrium processes
16:40 - 17:00	Claudio Maggi - <i>CNR-NANOTECH</i> Critical dynamics in active particles systems