

I Conference of the Italian Society of Statistical Physics

XXV National Conference on Statistical Physics and Complex Systems

June 23rd-25th 2021
Online Conference

WEDNESDAY, JUNE 23rd 2021

14:15 - 14:30	Opening
	<i>Chair: Roberto Livi</i>
14:30 - 15:10	Herbert Spohn - Technical University Munich Hydrodynamic equations for integrable many-body systems: The case of the classical Toda lattice
15:10 - 15:30	Massimo Cencini - Istituto dei Sistemi Complessi (CNR) Learning to hide and seek at low Reynolds number
15:30 - 15:50	Paolo De Los Rios - Institute of Physics and Institute of Bioengineering, EPFL The non-equilibrium nature of thermophoresis
15:50 - 16:10	Coffee Break
	<i>Chair: Ginestra Bianconi</i>
16:10 - 16:50	Ignite talks L. Buffoni - The Thermodynamics of Quantum Annealers A. Gopal - Energetics of critical oscillators in active bacterial baths S. Kundu - Breakdown of universality in random sequential adsorption in the presence of spatially long-range correlated disorder G. De Marzo - Dynamical approach to Zipf's law E. Lippiello - An objective criterion for cluster detection in stochastic epidemic models S. Miccichè - Global network connectivity and critical percolation thresholds in the supervised air traffic socio-technical complex systems C. Lucibello - Reconstruction of Pairwise Interactions using Energy-Based Models D. Alberici - A random deep Boltzmann machine: analytic results about the replica symmetric phase
16:50 - 17:10	Coffee Break
	<i>Chair: Irene Giardina</i>
17:10 - 17:50	Giacomo Livan - University College London Leveraging academic networks to understand scientific impact

17:50 - 18:10 | **Maria Chiara Angelini** - *Sapienza Università di Roma*
Loop expansion around the Bethe solution for disordered models

18:10 - 18:30 | **Diego Garlaschelli** - *IMT School of Advanced Studies, Lucca*
Multiscale network renormalization: scale-invariance without geometry

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THURSDAY, JUNE 24th 2021

10:00 - 12:30

Poster Session I - Rooms 1-5

Room 1 (Chair: G. Gradenigo) - A. Bastianello, G. Di Fresco, R. Franzosi, A. Santini & A. Solfanelli

Room 2 (Chair: A. Vezzani) - F. Baroni, M. Delvecchio, F. Mambretti, L. Rossi

Room 3 (Chair: A. Pelizzola) - M. Becchi, L. E. Coronas & G. Franzese, A. Lamura, L. Puggioni

Room 4 (Chair: A. Sarracino) - C. Campajola, M. D'Achille, D. Notarmuzi, A. Perinelli, T. Radicioni

Room 5 (Chair: M. Baiesi) - F. Borra, D.M. Busiello, H. Christiansen, G. Giachetti, M. Pretti

12:30 - 14:30

Lunch

Chair: **Achille Giacometti**

14:30 - 15:10

Emanuela Del Gado - *Institute for Soft Matter Synthesis and Metrology, Georgetown University*

The physics of cement cohesion

15:10 - 15:30

Andrea Gamba - *Politecnico di Torino*

Optimality in Self-Organized Molecular Sorting

15:30 - 15:50

Coffee Break & Poster Session

Chair: **Francesca Colaiori**

15:50 - 16:10

Anna Paola Muntoni - *Italian Institute for Genomic Medicine - Politecnico di Torino*

Epidemic mitigation by statistical inference from contact tracing data

16:10 - 16:30

Claudio Castellano - *Istituto dei Sistemi Complessi (ISC-CNR)*

Eigenvector localization of the adjacency and non-backtracking matrices in complex networks

16:30 - 16:50

Pierpaolo Vivo - *King's College London*

Rankings and Mean First Passage Time in complex networks: a unified framework

16:50 - 17:10

Coffee Break & Poster Session

17:10 - 18:30

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.

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FRIDAY, JUNE 25th 2021

10:00 - 12:30

Poster Session II - Rooms 7-11

Room 6 (Chair: S. Lepri) - I. Amelio, D. De Santis, A. Lerose, F. Petziol, C. Vanoni

Room 7 (Chair: S. Bianco) - M. Conte, L. Kocillari, T. Skrbic, A. Plati

Room 8 (Chair: F. Corberi) - M. Di Vece, M. Mancastroppa, N. Zagli, A. Somazzi

Room 9 (Chair: F. Ginelli) - M. Bucciotti, F. Caravelli, A. Galvani, F. Mattiotti, T. Squartini

12:30 - 14:30

Lunch

Chair: **Pasquale Calabrese**

14:30 - 15:10

Jorge Kurchan - *Laboratoire de Physique de l'Ecole Normale Supérieure, ENS*

An unexpected bridge between Black Holes and glasses

15:10 - 15:30

Pierfrancesco Urbani - *Université Paris-Saclay, CNRS, CEA, Institut de physique théorique, France*

Isostatic locking and marginally stable glasses

15:30 - 15:50

Coffee Break & Poster Session

Chair: **Giuseppe Gonnella**

15:50 - 16:10

Antonio Celani - *ICTP*

Gone with the wind: learning how to use kites for energy harvesting

16:10 - 16:30

Vittoria Sposini - *University of Vienna*

The random diffusivity approach for diffusion in heterogeneous systems

16:30 - 16:50

Malte Henkel - *LPCT, Université de Lorraine Nancy, France*

Meta-conformal invariance in biased Ising models

16:50 - 17:10

Coffee Break & Poster Session

17:10 - 18:30

Round Table discussion - *"Machine Learning and Big Data"*

E. Aurell, F. Giannotti, R. Sabatini, M. Weigt, R. Zecchina