



WITSP19
Workshop on Interdisciplinary
Topics in Statistical Physics
a meeting in honor of Attilio Stella

Aula "A. Rostagni"
Department of Physics and Astronomy "G. Galilei"
University of Padova

September 19th-20th 2019

Thursday, September 19th

9:00-9:30	Registration
9:30-10:00	Opening Session
10:00-10:30	David Mukamel – Weizmann Institute of Science, Rehovot, Israel <i>"Single file to ballistic transport phase transition in a 1d driven tracer model"</i>
10:30-11:00	Antonio Coniglio – Università di Napoli "Federico II", Italy <i>"Cluster approach to phase transitions from fluid to amorphous solids: gels, glasses and granular materials"</i>
11:00-11:30	Coffe Break
11:30-12:00	Theodore L. Einstein – University of Maryland, College Park, USA <i>"Some Results, Old and Newer, for Noteworthy Critical Behavior on Surfaces"</i>
12:00-12:30	Amos Maritan – Università di Padova, Italy <i>"Adaptive strategies in population dynamics models"</i>
12:30-12:50	Enrico Carlon , KU Leuven, Belgium <i>"Universal properties of Transition Path Time Statistics"</i>
12:50-13:10	Michele Caraglio , Innsbruck University, Austria <i>"Topological Disentanglement Dynamics of Knots on Open Linear Polymers"</i>
13:10-15:00	Lunch Break
15:00-15:30	Roberto Livi – Università di Firenze, Italy <i>"Inverse method applied to data reconstruction from neural activity"</i>
15:30-16:00	Hans Fogedby – Aarhus Univ., Denmark <i>"A minimal model of an autonomous thermal motor"</i>
16:00-16:30	Ferenc Iglói – Wigner Research Center for Physics, Budapest, Hungary <i>"Reentrant random quantum Ising ferromagnet"</i>
16:30-17:00	Coffee Break
17:00-17:30	Maria Rita D'Orsogna – California State University, Los Angeles, USA <i>"How heterogeneous thymic output and T cell proliferation shape immunoclonal abundance distributions"</i>
17:30-17:50	Marco Zamparo – Politecnico Torino, Italy <i>"Apparent multifractality of self-similar Lévy processes"</i>
17:50-18:10	Alkan Kabakcioglu - Koç Univ., Istanbul, Turkey <i>"Machine learning with stochastic gradient descent as a nonequilibrium system"</i>
18:10-18:30	Joseph O. Indekeu – KU Leuven, Belgium <i>"Analytic iteration procedure for solitons and traveling wavefronts with sources"</i>

WITSP19
Workshop on Interdisciplinary
Topics in Statistical Physics

a meeting in honor of Attilio Stella

September 19th-20th 2019

Friday, September 20th

9:30–10:00	Giovanni Jona-Lasinio – Università La Sapienza, Roma, Italy "What recent progress in non-equilibrium physics has taught us about thermodynamics"
10:00–10:30	Bertrand Duplantier – University Paris-Saclay, France "Integral Means Spectrum for SLE"
10:30–11:00	Erio Tosatti – SISSA, Trieste, Italy "Thermolubricity and Jarzynski free lunches in sliding friction"
11:00–11:30	Coffe Break
11:30–12:00	Luciano Pietronero – Università La Sapienza, Roma, Italy "Economic Fitness and Complexity"
12:00–12:30	Claudio Tebaldi – Università Bocconi, Milano, Italy "Scaling, Universality, and Renormalization in economics: what do we know, what are we still missing"
12:30–12:50	Gianluca Teza , Università di Padova, Italy "Memory leaves entropy production fluctuations invariant under coarse-graining"
12:50–14:30	Lunch Break
14:30–15:00	Raffaella Burioni – Università di Parma, Italy "Large Fluctuations in anomalous transport and the Big Jump Principle"
15:00–15:30	Cristian Micheletti – SISSA, Trieste, Italy "Privileged topologies of self-assembling molecular knots"
15:30–16:00	Stuart Whittington – University of Toronto, Canada "Self-avoiding Walks, Polymer Adsorption And Atomic Force Microscopy"
16:00	Closing remarks

Organizing Committee:

M. Baiesi, Univ. Padova
F. Baldovin, Univ. Padova
E. Carlon, Univ. Leuven
J.O. Indekeu, Univ. Leuven
E. Orlandini, Univ. Padova
F. Seno, Univ. Padova
C. Vanderzande, Univ. Hasselt

Secretary:
Adriana Schiavon, Univ. Padova

E-mail: witsp19@dfa.unipd.it
Website: <http://witsp-2019.dfa.unipd.it/index.html>



UNIVERSITÀ DEGLI STUDI DI PADOVA

Dipartimento
di Fisica
e Astronomia
Galileo Galilei