Istituto Veneto di Scienze, Lettere ed Arti Palazzo Franchetti, Venezia 14th to 18th October 2018

Sunday, 14th October 2018	
15:30 - 18:00	Excursion Guided tour through the city of Venice. We will start at Don Orione Artigianelli, the conference hotel.

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Monday, 15th October 2018	
	Opening remarks:
	Gherardo Ortalli
	President Istituto Veneto Scienze, Lettere, Arti
8:45 – 9:00	Attilio Stella
	University of Padova and I.N.F.N. Padova
	Ralf Metzler
	University of Potsdam
9:0 - 9:30	Steve Granick
	Enzymes are active matter
9:30 - 10:00	Daniela Kraft Reconfigurable colloidal structures: from colloidal joints to flexible
9.30 - 10.00	colloidal molecules
10:00 - 10:30	Diego Krapf
	$1/f\beta$ power spectral densities of individual trajectories
10:30 - 11:00	Coffee Break & Poster
11:00 - 11:30	Stefano Ruffo
	Fluctuations in quantum measurements Enrico Carlon
11:30 - 12:00	DNA elasticity beyond the Twistable Wormlike Chain
	Denis Grebenkov
12:00 - 12:30	Strong defocusing of molecular reaction times: geometry and
	reaction control
12:30 - 13:00	Elizaveta Dubrovina - Phil Browu
13:00 - 14:30	Publishing with Nature Communications and Journal of Physics A Lunch break & Poster
	Marcin Magdziarz
14:30 - 15:00	Lamperti transformation - cure for ergodicity breaking
	Christine Selhuber-Unkel
15:00 - 15:30	The phagocytic catch: Acanthamoeba in microstructured
	environments
15 00 16 00	Christian Beck
15:30 – 16:00	Superstatistical methods for complex systems: Some recent applications
16:00 - 16:30	Coffee Break & Poster
	Ulrich Schwartz
16:30 – 17:00	Robust ligand discrimination by asymmetric receptor dimerization
17:00 – 17:30	Iva Tolic
11.00 11.00	new twist in the mitotic spindle
17:30 - 18:00	Matthieu Wyart
	Complex landscapes in deep learning Kathleen Stebe
18:00 - 18:30	Bacteria on fluid Interfaces
00.00	
20:00	Welcome party at San Trovaso Restaurant

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Tuesc	lay, 16th October 2018	
09:00 - 09:30	Udo Seifert From stochastic thermodynamics to thermodynamic inference	
09:30 – 10:00	Matthias Weiss Active vs. thermal fluctuations in living cells	
10:00 - 10:30	Eli Barkai Infinite ergodic theory for single molecule tracking in thermal setting	
10:30 - 11:00	Coffee Break & Poster	
11:00 - 11:30	Cristian Micheletti Knotted DNA: conformational, dynamical and translocation properties	
11:30 - 12:00	Olga Dudko Chromosome fluctuations in living cells	
12:00 - 12:30	Barbara Capone Design of macromolecular building blocks: coarse graining, multiscale and theoretical predictions in material science	
12:30 - 13:00	Hye Yoon Park Watching single endogenous mRNA in neurons in vivo	
13:00 - 14:30	Lunch & Poster	
14:30 - 15:00	Rina Schumer Scale-free waiting times, reactions, and estimation	
15:00 - 15:30	Diogo Bolster Incomplete mixing and reactions in porous media	
15:30 – 16:00	Stefan Egelhaaf Anomalous diffusion due to an external potential, crowding and/or obstacles	
16:00 - 16:30	Coffee Break & Poster	
16:30 – 17:00	Stanislav Shvartsman A simple model of clonal dominance	
17:00 - 17:30	Yael Roichman Long range correlated motion of plasma membrane proteins	
17:30 - 18:00	Paolo De Los Rios Non-equilibrium protein folding (and unfolding) in the cell	
18:00 - 18:30	Poster	

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PROGRAMME

Wednes	sday, 17th October 2018
09:00 - 09:30	Clemens Bechinger Active Suspensions with Controlled Interaction Rules
09:30 – 10:00	Pascal Viot Stochastic and non-stochastic models of multi-channel particulate transport with blockage: similarities and discrepancies
10:00 - 10:30	Olivier Bénichou First-passage times of Markovian and non-Markovian random walkers
10:30 - 11:00	Coffee Break & Poster
11:00 - 11:30	Jacques Prost (*) Emergence and resurgence in elementary contractile unit
11:30 – 12:00	Elena Agliari (*) Looking for collective features in leukocyte migration
12:00 – 12:30	David Mukamel (*) Absolute negative mobility in tracer dynamics
12:30 - 13:00	Jeremy Smith (*) Protein Dynamics and Drug Discovery
13:00	Lunch & Poster
14:30 - 15:00	Thomas Franosch Non-equilibrium dynamics of active agents
15:00 – 15:30	Marco Baiesi Correlation between self-entanglement and amino acid sequence in proteins
15:30 – 16:00	Lene Oddershede Small fluctuations decisive for stem cell differentiation and organ development
16:00 - 16:30	Coffee Break & Poster
16:30 - 17:00	Hartmut Löwen Passive and active colloidal particles in complex environments
17:00 – 17:30	Fulvio Baldovin Active particles, pressure equation, swarming and useful work
17:30 – 18:30	Poster

(*) EPS Invited speakers

Excursion
Guided nocturnal visit to St Mark's including
the crypt and the Pala d'Oro.

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Thur	sday, 18th October 2018	
09:00 - 09:30	Leonid Mirny Active fluctuations in chromosomes	
09:30 - 10:00	Enzo Orlandini Epigenetic dynamics and 3D organisation of chromatin domains	
10:00 - 10:30	Andrew Spakowitz Physical Modeling of the Spreading of Epigenetic Modifications Through Transient DNA Looping	
10:30 - 11:00	Coffee Break & Poster	
11:00 - 11:30	Nikta Fakhri Multiscale time reversal asymmetry reveals scale-dependent force fluctuations in biological active matter	
11:30 - 12:00	Anna Maciolek Current-mediated synchronization of a pair of beating non-identical flagella	
12:00 - 12:30	Alberto Imparato Autonomous thermal motors: duets and soloists	
12:30 - 13:00	Jae-Hyung Jeon Anomalous diffusion in a chromosome-like random geometry	
13:00 - 14:30	Lunch break	
14:30 – 15:00	Elisabeth Bouchaud From flow to fracture through the sol-gel transition in colloidal systems	
15:00 – 15:30	Heiko Rieger Non-equilibrium self-assembly of cholesteric colloids	
15:30 – 16:00	Aljaz Godec Fast and precise reaction kinetics in the few-encounter limit	
16:00 - 16:30	Coffeee Break	
16:30 – 17:00	Felix Ritort Experimental measurement of information-content in nonequilibrium systems	
17:00 - 17:30	Aleksei Chechkin Brownian yet non-Gaussian diffusion in heterogeneous media	
17:30 - 18:00	Carlos Mejia-Monasterio Random skating on ice disorder	
18:00 - 18:30	Closing remarks	

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POSTER SESSION		
Erez Aghion, Ramat Gan	From Non-normalizable Boltzmann-Gibbs statistics to infinite- ergodic theory	
Tomás Aquino, Barcelona	Chemical Continuous Time Random Walks	
Michele Caraglio, Leuven	Diffusion and decay of torus knots in free open polymers	
Sara Cerasoli, Torino	A nanoscale out-of-equilibrium gyrator: new insights on effective temperatures	
Rajarshi Chakrabarti , Mumbai	Dynamics in active bath: from a single colloid to a polymer chain	
Davide Colí, Padova	Magnetic Polymer Models for Epigenomic Organisation and Phase Separation	
Ivan Di Terlizzi, Padova	Kinetic Uncertainty Relation	
Gianmaria Falasco , Luxembourg	Nonequilibrium thermodynamics of chemical reaction networks	
Felix Frey, Heidelberg	Stochastic dynamics of nanoparticle and virus uptake	
David Hartich, Göttingen	Duality Between Relaxation and First Passage in Reversible Markov Dynamics	
Rou Hou, Potsdam	Biased continuous-time random walks: facilitation of diffusion, ergodicity breaking and ageing	
Mario Hidalgo-Soria , Ramat Gan	<i>Effect of elastic colored noise in the hopping dynamics of single molecules in stretching experiments</i>	
Stefano Iubini, Padova	Topological Sieving of Rings According to their Rigidity	
Giulia Janzen, Torino	Clustering of driven particles through a quiescent bath	
Alessio Lapolla , Göttingen	Tagged Particle Histories in Single-File Diffusion: Exact Single- and Two-Tag Local Times Beyond Large Deviation Theory	
Nicolas Moutal, Palaiseau	Diffusion-limited reactions in heterogeneous media	
Amin Padash, Potsdam	First Passage Properties of Asymmetric Lévy Flights	
Jintae Park, Ulsan	Realization of an artificial active bath with controlled activity	
Giovanni Porta, Milano	Comparative assessment of continuum-scale models of bimolecular reactive transport model	
Raya Sorkin, Tel Aviv	Membrane binding, bending and remodeling by calcium sensor proteins	
Jakub Spiechowicz, Katowice	Subdiffusion via dynamical localization induced by thermal equilibrium fluctuations	
Vittoria Sposini , Potsdam	On the first passage problem for Brownian yet non-Gaussian diffusion in heterogenous media	
Stefano Steffenoni, Leipzig	The pressure of active particles	
Fereydoon Taheri, Heidelberg	The effect of viscoelasticity on intracellular mobility	
Samudrajit Thapa , Potsdam	Bayesian inference of single particle tracking data	
Oleg Vasilyev, Stuttgart	Critical Casimir Interactions and Percolation: the quantitative description of critical fluctuations	