

Weekly newsLetter in Statistical Physics: conferences, academic jobs and post-doc positions

CONFERENCES

**Higgs Centre Workshop on "Fundamentals of Growing Active Matter"
May 14-15, 2020, Edinburgh, UK**

A wide variety of physical properties of living systems arise from interplay between activity and growth. These include pattern formation in bacterial colonies, ordering in actin networks and the emergence of resistance in tumours. The workshop's main goal is to gather together researchers working on different systems and using different techniques (theory, simulations, and experiments). We hope that the meeting will help to identify universal characteristics of growing active matter and reveal unifying general principles (if they exist).

<https://higgs.ph.ed.ac.uk/workshops/fundamentals-of-growing-active-matter/>

From: Richard Blythe <r.a.blythe@ed.ac.uk>

**2020 CSI Workshop: Molecular Simulation with Machine Learning,
July 13-14, 2020, Princeton University, NJ**

A two-day workshop covering theory and hands-on tutorials on the software package for molecular simulation with machine learning (ML) tools developed at the Computational Chemical Science Center "Chemistry in Solution and at Interfaces". The package includes codes to construct and use deep neural network models of the potential energy surface and electronic properties of multi-atomic systems that reproduce the results of electronic density functional theory. The deadline for the application is May 15, 2020. Further information and application details can be found at <http://chemlabs.princeton.edu/ccsc/upcoming-events/>

From: Clarice Gethers-Mubarak (cgethers@princeton.edu)

**Ghent Summer of DANS 2020, September 14-18, 2020
Ghent University, Ghent, Belgium**

The Complex Systems Institute (www.csi.ugent.be) at Ghent University invites you to the Ghent Summer School in Data and Network Science with a focus on socio-economic problems.

For more information: <https://csi.ugent.be/events/summerofdans/>

From: Luis Rocha <lecrocha@yahoo.com>

**School on "Clean and disordered systems out of equilibrium",
Cargèse, 14-18 September 2020.**

This school* is oriented to Master, PhD students, and young postdocs and it will take place at the Institut d'Etude Scientifique de Cargèse. The lectures will be: "Quantum Quenches" by P. Calabrese, "Out of Equilibrium Dynamics of Classical and Quantum Complex Systems" by L. F. Cugliandolo, "Quantum

Transport” by B. Doyon, “Numerical methods in out of equilibrium” by R. Konik, and “The basics of many body localization” by A. Scardicchio. To apply go to <https://nonequilibrium.sciencesconf.org/> (deadline 15th of May 2020).

*Introductory to the long term workshop “Systems out of equilibrium: Interplay between statistical, quantum and disorder dynamics” to be held at IHP, Paris, Sept-Dec. 2020, organised by D. Bernard, L. F. Cugliandolo, L. Foini and G. Mussardo.

From: Laura Foini <laura.foini@ipht.fr>

**First School of the Italian Statistical Physics Society
31 August - 10 September, 2020 (Lucca, Italy)**

The school is structured in two main, morning courses by Roberto Benzi (Hydrodynamics and Turbulence) and Alessandro Sarracino (Stochastic Thermodynamics), and in four afternoon seminar courses.

School directors: Roberto Livi & Tiziano Squartini

Website for details and applications: <https://sifsschool2020.imtlucca.it/>

Deadline: April 15th

From: Roberto Livi <roberto.livi@unifi.it>

POST-DOC POSITIONS

Post-doctoral position in theoretical soft-matter at the "Interdisciplinary Laboratory on Nanoscale and Supramolecular Organization" , CEA-Saclay, France

The theoretical understanding of solvation properties of molecules/ macromolecules/interfaces in the domains of biology, colloidal physics, electrochemistry and material sciences requires an explicit molecular solvent level of description with atom-atom classical force-fields. Beside the standard and time-consuming numerical simulation, we have developed recently a powerful liquid physics theory based on 3D classical density functional theory. Up to now, it is solved within the HNC approximation which neglects the so-called "bridge" correlation functions. The project consists in developing the theory beyond this standard approximation by constructing various bridge functionals or functions which extend simple spherical liquid approaches to molecular solvents and solutes governed by highly anisotropic interactions and correlations. The new theory will be implemented in the existing MDFT code and its results compared to molecular simulations performed in parallel. See: <http://iramis.cea.fr/Pisp/luc.belloni/>

From: Luc Belloni luc.belloni@cea.fr

Postdoc theory position on DNA replication at Simon Fraser University, near Vancouver, BC (Canada)

This position is for a theorist interested in working with experimentalists, as well as interacting with a strong theory group with expertise in stochastic thermodynamics, bioinformatics, and biophysics. Start date Sept. 1, 2020. Ideal candidates should have a Ph.D. in physics or a related field, as well as an interest in biological and statistical physics. Further information and application details can be

found at <http://www.sfu.ca/chaos/opportunities.htm>. If attending the APS March Meeting in Denver March 2-6, please contact John Bechhoefer (johnb@sfu.ca).

From: John Bechhoefer <johnb@sfu.ca>

Postdoctoral position available at King's College London, UK

2-yr Postdoctoral position available (deadline: 19th March) on Taming the Complexity of the Law. The post is available from 1st April 2020, or as soon as possible thereafter. Informal enquiries are welcome at +44 (0)207 848 2864/pierpaolo.vivo@kcl.ac.uk .
<https://www.timeshighereducation.com/unijobs/listing/197362/research-associate/?LinkSource=PremiumListing&fbclid=IwAR0dz1PqH4KSslsknVYykC0UtTTtL4IbhCC7vecgD1285BI1j7pNebQfeeA>

From: Pierpaolo Vivo <pierpaolo.vivo@kcl.ac.uk>

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