

Subject: NewsLetter in Statistical Physics: July 2 2021

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

CONFERENCES

Second workshop: "Criticality on networks and socio-economic systems".

Satellite workshop of the Conference on Complex Systems 2021 (CCS2021 Lyon).

Invited speakers: Geoffrey West, Raissa D'Souza and Sergey Dorogovsev.

Call for abstracts -> <https://yerali.github.io/criticalitysys>

The scope of coverage includes any phenomenon presenting signs of criticality, for example, absence of characteristic scale, tipping points, critical slowing-down:

Theory and/or observation. Organized by Y. Gandica and P. Holme

From: Yerali Gandica <ygandica@gmail.com>

4th hybrid (on site + virtual) edition of the ReACT satellite "Robustness, Adaptability and Critical Transitions in Living Systems" during the Conference on Complex Systems in Lyon, France - 25-29/10/2021.

Confirmed invited speakers: A. Levina (University of Tübingen) and S. Valverde (CSIC-Universitat Pompeu Fabra). Organizing committee: S. Suweis (UNIPD), G. Nicoletti (UNIPD), S. Azaele (UNIPD), J. Grilli (ICTP).

Abstract submission open through EasyChair. Deadline 31 July 2021

<https://liphlab.github.io/REACT2021/>

From: Sandro Azaele <sandro.azaele@unipd.it>

POST-DOC POSITIONS

Post-doctoral research position at the University of Lyon, France, Water and aqueous salt solutions under extreme conditions

Viscosity measurements and Raman spectroscopy of light and heavy water and aqueous solutions in diamond anvil cells. Starting January 2022.

Groups of Frédéric Caupin (Institute of Light and Matter, ILM) and Isabelle Daniel (Laboratoire de Géologie de Lyon, LGL-TPE), ANR-DFG project H2D2OX. Duration: 12 months, renewable once

http://ilm-perso.univ-lyon1.fr/~fcaupin/pdf/H2D2OX_post-doc_2021.pdf

From: Frédéric Caupin <frederic.caupin@univ-lyon1.fr>

2-year Postdoc position in the theoretical biophysics at the Network Biology Research Labs Technion, Haifa, Israel.

Position is now open for a post-doctoral researcher working in the framework of a theory-experiment collaboration between N. Brenner (Technion) and H. Salman (University of Pittsburgh). Position funded by the US-Israel Binational Science Foundation. We seek to understand homeostasis of bacterial growth,

division and protein production, as well as the physiology of stress response and exploratory adaptation in bacteria. Research directions include developing models, analyzing single-cell data and applying methods of statistical physics, control theory and nonlinear dynamical systems. Required: a keen interest in biophysics, curiosity, and ability for team work. Appropriate background: physics/math/engineering. Highly qualified PhD students will be considered as well.

<http://biophysics.net.technion.ac.il/>

From: Naama Brenner <nbrenner@technion.ac.il>

MISCELLANEOUS

Announcing the \$1000 US Snook prizes for 2021

The fractal information dimension can be computed in three ways :
[1] mapping points, [2] mapping regions (two-dimensional areas) and
[3] applying the Kaplan-Yorke conjecture. For the simplest non-equilibrium
Baker N2 Map these three approaches give different results !
Exploration and explanation of this situation is the 2021 Ian Snook
Prize Problem. See also the June issue of CMST at CMST.eu.

From : william hoover <hooverwilliam@yahoo.com>

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