Title: Job Opportunities at Intel

Speaker: Panel of Intel Recruiters

Date: Thursday, January 24

Time/Location: 11:00 am / 204 Loomis (Interaction Room)

Abstract: An overview of all groups at Intel that are hiring PhDs from our Intel Labs group to our Logic and Technology Division. Representatives will be on hand answer questions regarding Intel’s development of advancement of Silicon process technology, how they brought advanced technologies to High Volume Manufacturing years ahead of its competitors, and what its like to do R&D at Intel on a day to day basis.
Theoretical Physics at the Graduate Center of the City University of New York: Available Faculty Position

Assistant, Associate or Full Professor – Initiative for the Theoretical Sciences, Ph.D. Program in Physics in New York, New York

Faculty Vacancy Announcement - Performs teaching, research and guidance duties in area(s) of expertise. Shares responsibility for committee and department assignments including administrative, supervisory, and other functions.

Qualifications - For Assistant, Associate, or Full Professor: Ph.D. degree in area(s) of experience or equivalent. Also required are the ability to teach successfully, demonstrated scholarship or achievement, and ability to cooperate with others for the good of the institution. A preferred candidate should have: an outstanding record of external funding, strong leadership skills to organize a research group, previous research in the traditions of theoretical physics, but may have an interest that extends across conventional disciplinary boundaries, ability to demonstrate an outstanding record of independent research accomplishment and creativity, as well as an interest in mentoring and community building.

Compensation - CUNY offers faculty a competitive compensation and benefits package covering health insurance, pension and retirement benefits, paid parental leave, and savings programs. We also provide mentoring and support for research, scholarship, and publication as part of our commitment to ongoing faculty professional development.

How to Apply - Click on "Apply Now" below which will bring you to the registration screen. If you are a new user, you must register to apply. If you already have a user ID, please use your existing ID to apply. Make sure to upload a CV, research statement, and contact information for three (3) professional references (name, title, organization, phone number, and email address). Please upload all documents in Word or PDF format as one file.

Closing Date - Open until filled with review of applications to begin on January 28, 2019
Monday, January 21: Martin Luther King Jr. Day: Classes will not meet

Wednesday, January 23: Physics Colloquium: "From 3d to 2d and Back Again"

Thursday, January 24: Physics Careers Seminar: "Job Opportunities At Intel"

Visitors:

Condensed Matter Theory group at Argonne National Laboratory: Available Postdoctoral Position

The areas of research are electronic structure of strongly correlated electron systems, and electronic structure and transport in topological materials and heterostructures. Current staff members of the group include Mike Norman, Olle Heinonen, Peter Littlewood, Ivar Martin, Kostya Matveev, and Hyowon Park.

Condensed Matter Theory research at Argonne covers broad areas of condensed and soft matter physics, including superconductivity, magnetism, low-dimensional systems, quantum mesoscopic phenomena, non-equilibrium systems, and active self-assembled systems. We place strong emphasis on collaboration with various experimental programs at Argonne. Our long-term goals are to make fundamental advances in condensed and soft matter physics as it relates to DOE basic energy sciences mission goals. Our primary research thrusts involve: high-temperature cuprate and pnictide superconductors; other transition metal compounds with novel properties (such as quantum spin liquids and charge density waves); superconductor-superinsulator transitions; topological properties of metallic and nanostructured magnets and topological excitations in mesoscopic systems; quantum phase transitions in strongly correlated electron systems; transport in quantum wires, quantum dots, and spintronic devices; optimization of transport properties of superconductors by large-scale simulations; magnetization textures and dynamics in nanostructured magnetic systems; quantum thermodynamics and irreversibility; and fundamental interactions in active self-assembled systems.

To apply send CV by email, along with three letters of reference, to norman@anl.gov. The deadline for receiving applications is March 1, 2019. Information on the Condensed Matter Theory group can be found at https://www.anl.gov/msd/condensed-matter-theory.
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27th IUPAP Conference on Statistical Physics

Location: Buenos Aires, Argentina

Date: July 8-12, 2019

Submissions of contributions are now being accepted. Registration at the early fee is also available. For details on registration, submission and request of financial support, please visit: https://statphys27.df.uba.ar/registration.html.
STATPHYS27 Satellite Workshop

Title: Yielding Phenomena in Disordered Systems

Location: Centro Atómico Bariloche in Patagonia Argentina

Date: July 2019

Abstract Submissions Deadline: January 31, 2019

There are at least 8 slots for contribution talks and there will be 1-2 poster sessions. Bariloche is a tourist destination and July is a winter high-season. It is recommended that travel and accommodations are booked in advance.

All the information about the workshop can be found at: https://yielding2019.sciencesconf.org/
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STATPHYS27 Satellite Workshop

**Title:** Physics of Active Matter

**Location:** Viña del Mar, Chile

**Date:** July 15-17, 2019

**Abstract Submissions Deadline:** February 17, 2019

This workshop will focus on general topics in active matter physics, with an emphasis on the statistical mechanics of active systems and on applications to biology and synthetic active materials. It will consider questions such as collective and emergent behavior, topological properties, thermodynamics, and mesoscale descriptions.

All the information about the workshop can be found at: [https://activematter2019.wordpress.com](https://activematter2019.wordpress.com)
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X Brazilian Meeting on Simulational Physics
Satellite Meeting of StatPhys27

Location: Ouro Preto, Brazil

Date: July 15-19, 2019

The X-BMSP will gather scientists specialized in simulations in the most diverse areas of physics, chemistry, biology and materials science, to present the latest advances in methodology and techniques applied to the study of problems through computer simulations.

All the information about the meeting can be found at: xbmsp.ufop.br
Monday, January 21: Martin Luther King Jr. Day: Classes will not meet

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School/Workshop

Title: Statistical Mechanics of Active Matter

Location: Gran Sasso Science Institute, L 'Aquila, Italy

Date: June 12-14, 2019

Registration Deadline: May 10, 2019

Registration is now open. A limited number of grants covering local expenses will be available for Ph.D. students and junior Postdocs. Financial support application can be done while registering.

All the information about the workshop can be found at: https://indico.gssi.it/event/49/
## Entropy Travel Awards 2019

**Application Deadline:** February 28, 2019

Entropy is currently accepting applications and nominations for three Travel Awards to sponsor postdoctoral fellows or PhD students to attend a relevant conference of their choice in 2019.

The three thematic areas for the three Travel Awards are:
- Statistical Mechanics
- Information Theory
- Thermodynamics

Only one of the three can be applied for per person. The award will consist of 800 Swiss Francs.

For more information about the awards and how to apply visit: [https://www.mdpi.com/journal/entropy/awards](https://www.mdpi.com/journal/entropy/awards)
CALENDAR OF EVENTS http://physics.illinois.edu/bluesheet.asp

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Visitors:

Max Planck Institute of Complex Systems, Dresden: Available Postdoctoral Positions

The areas of research range from strongly correlated Fermions and Bosons in and out of equilibrium, transport in quantum matter, frustrated systems and topological phases of matter, via computational many-body physics, to quantum computation and information theory.

The Institute provides a stimulating environment due to an active in-house workshop program and a broad range of other research activities. Strong experimental groups are nearby, in particular in the neighbouring Max Planck Institute for Chemical Physics of Solids.

To apply for a position, please fill the online application form (http://www.pks.mpg.de/CMpd19) and upload your application package (cover letter, curriculum vitae, list of publications, statement of research interests and research proposal as well as the three most relevant publications) in one pdf file. Please arrange for at least two letters of reference should be sent in pdf-format and be submitted online (http://www.pks.mpg.de/reference/) by January 20, 2019 to the Visitors’ Program, or by email (visitors@pks.mpg.de) with subject line CMpd19, or by regular mail: Max Planck Institute for the Physics of Complex Systems, Visitors Program, Nöthnitzer Str. 38, 01187 Dresden, Germany. We especially encourage women to apply.

The Max Planck Society is committed to employing more individuals with disabilities, who in the case of equal qualifications will take precedence.
University of Pittsburgh Department of Physics & Astronomy

Postdoc Positions in Theoretical Condensed Matter and Cold Atom Physics

We invite applications for postdoctoral appointments. The area is broadly defined in theoretical quantum physics. There will be some preference given to those interested in the interface of Cold Atom, Condensed Matter, and Particle Physics. The candidate should have a strong background or future interest in many body physics/field theoretical methods. The position can start September in every academic year or earlier. The initial appointment will be one year, and is expected renewable for another one or two years, subject to funding availability and mutual agreement. The position is funded by continuing and new grants provided by ARO, AFOSR, MURI, etc., together with new support initiatives from the Dean’s office.

Applicants should email a statement of interest, a CV, and a list of publications, and arrange for three letters of reference to be emailed to Professor W. Vincent Liu (University of Pittsburgh, wvliu@pitt.edu). Informal inquiries are also welcome. The position will remain open until filled. But to receive full consideration candidates should apply before February 1, 2019.

Additional information about our research is available at http://liu.phyast.pitt.edu/ and http://liu.phyast.pitt.edu/wiki/.

The University of Pittsburgh is an Equal Opportunity/Affirmative Action Employer.
### PHYSICS COLLOQUIUM

**Title:** From 3d to 2d and Back Again

**Speaker:** Cory Dean (Columbia University)

**Date:** Wednesday, January 23

**Time/Location:** 4:00 pm / 141 Loomis Lab

**Abstract:** Graphene, a single layer of carbon atoms arranged in a hexagonal lattice, is probably the best known, and most extensively characterized two-dimensional material. However, this represents just one of a larger class of layered materials, in which weak interlayer-forces make it possible to mechanically isolate monolayers from the bulk. This weak interlayer bonding also makes it possible to interleave monolayers from different crystals together to form entirely new layered structures. Fabricating materials by the mechanical assembly of individual layers provides a new and unprecedented level of control in device engineering where crystals with wildly different properties can be mixed and match, virtually at will. In this talk I will describe some of the techniques we have developed to make this possible and highlight new quantum phases that emerge as a result. I will additionally discuss recent efforts where, by tuning the geometry of these heterostructures at the nanoscale, we realize the capability to induce and dynamically control novel electronic phases in these systems, in ways that are not possible in conventional materials.
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Postdoctoral positions on soft-mater physics, biophysics, and statistical-mechanics for the following research groups from Tel Aviv University, Israel

Visitors:

Roy Beck – roya@tauex.tau.ac.il | http://www3.tau.ac.il/beck/ |

Yael Roichman - roichman@tauex.tau.ac.il | https://m.tau.ac.il/~roichman/

Yoav Lahini - lahini@tauex.tau.ac.il | https://en-exact-sciences.tau.ac.il/profile/lahini

Applications should be submitted via email to the relevant PI and include a single PDF containing: A cover letter, Curriculum vitae including a list of publications, A short research statement (<1 page) describing how the candidate’s current achievements is correlated to the research he/she is applying for. In addition, 3 recommendation letters should be sent directly from the recommender to the relevant PIs.
The Rome-Sapienza Unit of the Institute for Complex Systems (ISC-CNR) is looking for two outstanding postdocs one experimental and one theoretical. Both postdocs will join an interdisciplinary team of nanoscience scientists, material science specialists, and theoreticians with the aim to study and characterize complex materials for quantum technologies. The team will study unconventional and strongly disorder superconductors to exploit the extreme sensitivity and non-linearity of these materials for quantum technological applications like kinetic inductance detectors. The experimental postdoc will characterize the superconducting insulator transition on some selected materials and their response to external perturbations like THz radiation. He/She will assist in the fabrication of devices and perform their low-temperature characterization. The theoretical postdoc will do material modeling using techniques such as density functional theory, quantum field theories, Lanczos exact diagonalization, and Monte Carlo simulations. He/She will also assist in the design of the devices and interpretation of the experimental results.

The positions are for two years. ISC-CNR operates in the Department of Physics of Sapienza University, ranked among top Physics Departments in the world (https://www.usnews.com/education/best-global-universities/physics?page=2).

Applications should be sent to jose.lorenzana@cnr.it. They should contain a CV and the contacts of senior scientists who can provide recommendation letters (only upon our request). Earlier applications will be given higher priority. Interested candidates are encouraged to send the application immediately.
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**Visitors:**

Postdoctoral positions within the SISSA Statistical Physics Group are available starting in autumn 2019. The positions have a total duration of two years and the successful candidates are expected to work on the general area of quantum field theory and statistical physics. Some positions are fully funded within the European ERC project NEMO (New Entangled states of Matter Out of equilibrium) with PI Pasquale Calabrese and can be extended to three years.

Short-listed candidates will be contacted to be informed on which positions they are considered.

The scientific interests of the group include quantum and conformal integrable models, tensor network calculations, entanglement in many-body systems, cold atoms, classical and quantum non-equilibrium statistical physics, quantum quenches and thermalization, classical and quantum disorder systems.

A description of the research interests of the group and of the current members can be found at [http://www.sissa.it/statistical/](http://www.sissa.it/statistical/).

We would be grateful if you bring these postdoctoral positions to the attention of potential strong candidates and encourage them to apply.

The application deadline is January 31, 2019, but earlier applications are encouraged.

Applications (which should include a CV with list of publications, a brief research statement, and the names of at least two referees) should be done via the Academic Jobs Online Service.