

Yale Department of Physics

Yale Physics Newsletter

January 25, 2019

For further information on any of the items included here or if you would like to contribute to the next newsletter, send email to [Daphne Klemme](mailto:Daphne.Klemme).

Hints & Tips!

Welcome to our new hints and tips section! Please email daphne.klemme@yale.edu with any helpful tips that will help us work to our best ability. See below for a wrap-up of all hints and tips for Fall 2018:

Important information on Yale's hazardous weather policy

With winter approaching, it is a good time to review Yale's hazardous weather policy and to prepare for storms. [Click here for further information](#).

Climate and Diversity Committee News

A Note from the [Climate and Diversity Committee](#) (CDC).

This Monday we observed MLK day in recognition of Dr. King's leadership of nonviolent activism in the Civil Rights Movement. While much progress has been made since his assassination in 1968, more remains to be done. [This recent PEW report comparing survey data on workers in STEM and non-STEM jobs](#) shows that Black and Hispanic workers continue to be underrepresented in the STEM workforce, with a higher share of STEM employed blacks reporting experiencing racial/ethnic discrimination than others in STEM positions.

The CDC convenes once a month. If interested in joining please contact Helen Caines (helen.caines@yale.edu, Chair of CDC). You may contact the whole committee at physics-cdc@mailman.yale.edu

News

Congratulations to **Zack Lasner** on the successful defense of his dissertation, "Order-of-magnitude-tighter bound on the electron electric dipole moment". His thesis advisor was David DeMille. He will be continuing his research as a postdoctoral researcher at Harvard University.

Save the Date

Save the date! February 7, 2019 at 4:00pm is the book signing for "Physics & Dance" by Emily Coates and Sarah Demers.

Seminars

Monday, January 28

- 10:30am in Mann Engineering Student Center (Dunham Lab 107). Department of Chemical and Environmental Engineering Special Seminar. Dr. Yaping Zang, Columbia University, "Manipulating Chemical Reactions of Single Molecule with Electricity". Refreshments at 10:00am.
- 2:00pm in Mann Engineering Student Center (Dunham Lab 107). Special Solid State & Optics Seminar. David Mason, The University of Copenhagen, Denmark, "Quantum Measurement and Control of a Mechanical Resonator". Host: Prof. Peter Rakich.
- 2:00pm in Wright Lab 216. Environmental Health and Safety (EHS) Shop Orientation. The EHS shop orientation is offered each semester and is required to be taken once by anyone who would like to gain access and make use of the [research shops at Wright Lab](#). This includes the Teaching Shop, the Wood Shop, and the Advanced Prototyping Lab. [Click here to RSVP](#).
- 2:30pm in Mason Lab 107. Department of Mechanical Engineering & Materials Science Seminar. Jesse T. Ault, Oak Ridge National Laboratory, "Coupled fluid, solute, and particle dynamics in confined systems". Host: Prof. Udo Schwarz. Refreshments served at 2:15pm.
- 3:30pm in Sloane Physics Lab 57. Physics Club. Sarah Veatch, University of Michigan, "Phases and fluctuations in cell membranes". Host: Ben Machta. Tea after the talk outside the lecture hall.
- 4:00pm in A.K. Watson 200. Computer Science Recruit Colloquium. Cesar Torres, University of California, Berkeley, "Hybrid Aesthetics: Composing Digital and Physical Materials within Computational Design. Host: Holly Rushmeier.
- 4:00pm in Bass 305. Molecular Biophysics & Biochemistry Seminar. Sharon Hammes-Schiffer, Yale University, "Proton-Coupled Electron Transfer in Enzymes and Photoreceptor Proteins".

Tuesday, January 29

- 12:00pm in Wright Lab-Connector 245. WIDG Seminar. Gianantonio Pezzullo, Yale University, "Mu2e: A Search for Charged Lepton Flavor Violation in $\mu N \rightarrow e N$ conversion with a Sensitivity $< 10^{-16}$ ". Lunch will be served beginning at 11:45am. [Click here to RSVP](#).
- 4:00pm in Sterling Chemistry Lab Room TBA. Department of Chemistry Lecture in Biophysical Chemistry. Professor Ivan Dmochowski, University of Pennsylvania, "Title TBA"

Thursday, January 31

12:30pm in Poorvu Center Room 120A. Faculty Diversity and Education Series. Andrew Houck, Princeton. "Improving Access with an Application-focused Approach to Engineering Requirements. [Click here to register.](#)

1:00pm in Wright Lab 216. YPPDO Panel. Kyungeun Lim (NBCUniversal Media), Danti Chen (Webster Shandwick), and Patrick Young (YNHH), "Transitioning to Data Science. Lunch will be served. [Click here to RSVP.](#)

2:30pm in Watson Center A51. Yale Astronomy & Astrophysics Colloquium. Kyoung-Soo Lee, Purdue, "Cosmic Mega-city: galaxy constituents in a Coma progenitor at $z>3$ ".

Friday, February 1

12:00pm in Yale Quantum Institute Seminar Room. Yale Quantum Institute/Poorvu Center for Teaching & Learning Colloquium. Andrew Houck, Princeton, "Many-body quantum optics in superconducting circuits". Host: Steven Girvin.

4:00pm in Kline Geology Lab 123. Geology & Geophysics Colloquium. Andreas Kappler, Eberhard Karls Universität Tübingen, "Title TBA".

For more seminars see: <http://physics.yale.edu/calendar>

Announcements

[Please click here for updates on the Yale Science Building, including a new logistics plan.](#) The project encompasses the construction of a new state of the art sciences laboratory at the approximate location of the demolished J.W. Gibbs building, a comprehensive renovation of the KBT Plaza, a lecture hall, and a common area at the south end of KBT Plaza.

Update from the USPS

Effective January 27, 2019 the USPS will implement postage rate changes. First Class postage stamps will increase to \$.55 while First Class metered postage will increase to \$.50.

To see a full list on all postal changes, [please click here.](#)