

Yale Department of Physics

Yale Physics Newsletter

February 15, 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.

Please note: New tax laws effective January 1, 2018 impacts household relocation expenses and assistance. Relocation expenses and assistance are now considered taxable income to the employee. This includes expenses incurred in 2017 but submitted for reimbursement in 2018. [Click here for full information.](#)

Climate and Diversity Committee News

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

Yale has just announced the launch of its 2019 Campus Climate Survey on Sexual Misconduct in collaboration with the Association of American Universities (AAU). All students (undergraduate, graduate, and professional school) have been invited to participate. It's important that Yale have as wide and complete a view of the climate at our University, so we urge you to take a few minutes to [complete the survey](#) whatever your campus experience to date. All responses are confidential, and participation is voluntary. This study is a follow-up to the landmark AAU survey from 2015 which surveyed over 150,000 students across 27 universities. For more information visit the Sexual Misconduct Response and Prevention Website.

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

Physics Graduate Students

As part of a campus-wide drive organized with the Graduate Student Assembly ([GSA](#)) and the Graduate and Professional Student Senate ([GPSS](#)), we have set up a donation box in SPL 33 (by the first floor coffee maker) for collecting winter clothing for

Save the Date

The 42nd Annual Hanan Rosenthal Memorial lecture will be held on February 25, 2019 the speaker is Immanuel Bloch, Max-Planck Institute. The title of the talk is "Realizing Fenman's Dream of a Quantum Simulator".

Seminars

Monday, February 18

2:30pm in Mason Lab 107. Department of Mechanical Engineering & Materials Science Seminar. Dr. Milan Delor, University of California, Berkeley, "Watching and controlling energy transport within and between molecules". Host: Prof. Udo Schwarz. Refreshments served at 2:15pm.

3:30pm in Sloane Physics Lab 57. Physics Club. Sean Barrett, Yale University, "Signs of a 'Time Crystal' in a Surprising Place". Host: Ben Machta. Tea will be after the talk outside the lecture hall.

4:00pm in Brady Memorial Laboratory. Molecular Biophysics & Biochemistry Seminar. Kevin Collins, University of Miami, "Modulation of a model serotonin motor circuit by mechanical stretch and homeostatic feedback".

Tuesday, February 19

12:00pm in Wright Lab 216. Yale Instrumentation Lunch. "Quantum Sensors: Opportunities and Applications". Lunch will be provided. [RSVP Required](#).

Wednesday, February 20

9:00am in Sloane Physics Lab 48. BioSoftMatter Journal Club. Ivan Surotsev, Yale University, "Title TBA". Host: Daniel Seara.

10:30am in Sloane Physics Lab 51. Graduate Methods Seminar. Paul Fanto, Yale University, "Self-consistent mean-field theory".

12:00pm in Sloane Physics Lab 56. Special Biological Physics Seminar. Assaf Amitai, MIT, "Geometry and stochastic dynamics in biological systems". Host: Nicholas Read.

2:30pm in Mason Lab 107. Department of Mechanical Engineering & Materials Science Seminar. Pedro J. Sáenz, Massachusetts Institute of Technology, "Interfacial Soft Matter". Host: Prof. Udo Schwarz. Refreshments served at 2:15pm.

4:00pm in Sterling Chemistry Lab 160. Molecular, Cellular and Developmental Biology Seminar. Don Cleveland, University of California, San Diego, "Designer DNA drugs for gene silencing therapy for neurodegenerative disease". Host: Weimin Zhong. Tea at 3:45pm.

4:00pm in William L. Harkness Hall 116. IEEE Electrical Engineering Month. Rajit Manohar, Yale University, "Computer Engineering". Food will be served.

4:15pm in Leet Oliver Memorial Hall 215. Department of Mathematics Colloquium. Kiran Kedlaya, University of California, San Diego/Institute for Advanced Study, "Companions in étal cohomology".

Thursday, February 21

12:00pm in Poorvu Center for Teaching and Learning 120A & 120B. STEM Education Seminar. Dr. Jose J. Vazquez, University of Illinois, Urbana-Champaign, "Curiosity and the Pleasures of Learning! Using Curiosity and Information Gaps to Motivate Students to Learn". Lunch will be provided. [RSVP required](#).

1:00pm in Wright Lab 216. NPA Seminar. Antonia Hubbard, Northwestern University, "1st Flight Engineering Results and Future Dark Matter Searches with the Micro-X Sounding Rocket". Host: Reina Maruyama. Lunch in Wright Lab-Connector 245 prior to seminar. [RSVP required](#).

2:30pm in Watson Center A-51. Astronomy & Astrophysics Colloquium. Dan Foreman-Mackey, Flatiron Institute, "Data-driven discovery in the astronomical time domain".

Friday, February 22

12:00pm in Mann Student Center, Dunham Lab 107. YINQE Seminar. Marcos Latorre, Department of Biomedical Engineering, Yale University, "Mechanobiological Stability of Biological Soft Tissues" and Sabyasachi Sutradhar, Department of Molecular Biophysics & Biochemistry, Yale University, "Deciphering the Dendritic Tip Dynamics of Drosophila Class IV Sensory Neuron in Light of a Three-State Model". Host: Corey O'Hern. Light lunch will be served.

12:00pm in Yale Quantum Institute Seminar Room. Yale Quantum Institute Colloquium. Nicole Yunger Halpern, Harvard-Smithsonian ITAMP, "Quantum steampunk: Quantum information, thermodynamics, their intersection, and applications thereof across physics". Host: Steve Girvin. Lunch will be provided at 11:45am.

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

children and families in New Haven with incarcerated parents.

New/unused items such as scarves, hats, gloves, ear muffs, warm socks, and coats would be greatly appreciated and will be distributed to families in need. The box will be available through Feb 21. If you have any questions, please feel free to contact me at jeremy.gaison@yale.edu.

News from the Library

Using the HathiTrust for Older Scientific Works

For most of you, reading documents from before 1920 to support your research will happen rarely. There are a few exceptions (such as Einstein), but for the most part, you're consulting articles and books written within the past half century. Some needs, however, can't be satisfied with current content.

If you need earlier works and prefer digital — let's say for science outreach (see what we did at CSSSI about the solar eclipse as an example) or because you want to show students some 19th century research to get them thinking about today versus yesterday — the HathiTrust is an excellent tool. There are some astronomy data tables in there as well.

The HathiTrust (<https://www.hathitrust.org>) is a partnership of academic and research institutions that offers a place to search through and read millions of digitized titles from around the world. If you want to do substantive dives into old science, it has a better breadth of content than Google Books, and things that we have in our collections are also often available digitally simply because we have them in print. On the HathiTrust, you can download books or page ranges — just make sure you are in Full View because you can't download the full book from the HathiTrust's catalog record.

On the HathiTrust web site, there is a giant yellow button that lets you log in. I recommend doing so because, if you need to read or download something, you must verify your Yale credentials.

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.

2019 International Women's Day

Join the Working Women's Network, Yale Latino Networking Group, Future Leaders of Yale, Asian Network at Yale, Yale African American Affinity Group, DiversAbility at Yale, and Work-Life and Childcare to celebrate [International Women's Day](#) in various locations across campus on Friday, March 8th, from 11:30 AM – 1:30 PM. Stop by a location near you to get a flower for yourself, or someone you know, to celebrate International Women's Day. Suggested cash donations of \$1 per flower are welcomed to benefit the [Connecticut Women's Education and Legal Fund \(CWEALF\)](#).

International Women's Day means different things to different people. For some it's a celebration, for others it's a call-to-action to accelerate gender parity, and for many it's an opportunity to align and promote relevant activity. International Women's Day is the perfect moment for gender-focused action.

This year's theme is: [Balance for Better](#). Balance is not a women's issue, it's a business issue. The race is on for the gender-balanced boardroom, a gender-balanced government, gender-balanced media coverage, a gender-balance of employees, more gender-balance in wealth, gender-balanced sports coverage, etc. Gender balance is essential for economies and communities to thrive. We encourage you to make International Women's Day YOUR day - and do what you can to truly make a positive difference for women everywhere.

LOCATIONS

Yale School of Medicine, 333 Cedar Street, 1st Floor Lobby

25 Science Park, 154 Munson Street, 1st Floor
Lounge

Yale Poorvu Center for Teaching and Learning, 301
York Street

The Women's Table, 175 Elm Street (weather
permitting)

Yale Health, 55 Lock Street, 1st Floor Lobby

Human Resources, 221 Whitney Avenue, 1st Floor
Lobby

Lunarfest 2019 Programming

Lunarfest 2019 is celebrating the Year of the Pig!
Join us in the Lunar New Year festivities that will
culminate on Saturday, February 16, 2019. That
day, we will have visiting Lion Dances from New
York City and a multitude of activities,
performances and workshops in the afternoon. All
Lunarfest programming is free and open to the
public.

[Click here for further details](#)