

# Yale Department of Physics

Yale Physics Newsletter

March 1, 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](mailto:daphne.klemme@yale.edu) with any helpful tips that will help us work to our best ability.

With tax season coming [click here for instructions on how to print the current year W-2 form](#) through Workday. If you cannot access through Workday call employee services at 203-432-5552 for help.

As required by the Affordable Care Act ("ACA") in early March, Yale will provide to many employees a **1095-C tax form** that will contain important information about health care coverage in 2018. These forms will arrive later than the date you receive your 2018 W-2. However, you may proceed without them in preparing your federal tax returns. The IRS does not require you to attach these forms to your return or to wait to file your return until you have them. [Click here for further information](#).

## Climate and Diversity Committee News

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

As the opening sentence of this article (<https://www.nytimes.com/2016/04/03/magazine/who-s-they.html>) states "We are witnessing a great explosion in the way that human beings are allowed to express their gender identities." An example in our daily life is the use of personal pronouns, the pronouns you choose to use for yourself. She/her/hers and he/him/his are the most commonly used pronouns, but gender-neutral versions are also becoming common. Letting your class know your preferred pronouns when you introduce yourself at the start of a semester, and inviting your students to let you know theirs, is a simple small step to make your classroom more welcoming. In addition, you can now enter and display your pronouns of choice in the physics department's public directory page.

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

## Save the Date

The American Physical Society March Meeting 2019 will be held March 4-8, 2019 at the Boston Convention and Exhibition Center (BCEC). Spring recess runs from 5:30pm on Friday, March 8, 2019 through Sunday, March 24, 2019. The Graduate Recruitment Open House is being held Thursday, March 28 and Friday, March 29, 2019.

## Seminars

### Saturday, March 2

10:00am in Sterling Chemistry Lab. Science on Saturdays at Yale. Larry Gladney, Yale University, "Peering into the Dark Side of the Universe". Refreshments will be served. Parking is available at the Sachem-Prospect Garage on Prospect Street.

### Tuesday, March 5

1:00pm in Wright Lab 216. Nuclear Particle Astrophysics (NPA) Seminar. Felix Aharonian, Max Planck Institute, "Gamma-rays and antiparticles in galactic cosmic rays". Host: Karsten Heeger. Lunch in Wright Lab-Connector 245 prior to seminar. [RSVP required](#).

4:00pm in Sterling Chemistry Lab 253. Department of Chemistry Lecture in Physical Chemistry. Wei Xiong, University of California, San Diego, "Ultrafast Nonlinear IR Spectroscopy for Exotic Molecular Materials".

### Thursday, March 7

10:00am in Sloane Physics Lab 52. Special Theoretical Physics Seminar. Jacob Bourjaily, Niels Bohr Institute, University of Copenhagen, Denmark, "The Surprising Simplicity of Scattering Amplitudes". Host: Jack Harris.

2:30pm in Watson Center A-51. Yale Astronomy & Astrophysics Colloquium. Daniel Angles-Alcazar, Flatiron Institute, Center for Computational Astrophysics, "Stimulating supermassive black hole growth and feedback in realistic environments".

2:00pm in Mann Engineer Student Center, Dunham Lab 107. Special Solid State & Optics Seminar. Stefan Rotter, Institute for Theoretical Physics, Vienna / University of Technology (TU Wien), Vienna, Austria, "Introducing the random anti-laser: coherent perfect absorption in disordered media". Host: Hui Cao.

### Friday, March 8

12:00pm in Mann Student Center, Dunham Lab 107. YINQE Seminar. Luis Perez Lorenzo, Department of Mechanical Engineering & Materials Science, Yale University, "Electrohydrodynamic Acceleration of ES Jets" and Ayomiposi Loye, Department of Biomedical Engineering, Yale University, "Bulk Metallic Glasses for Biomedical Applications". Host: Professor Corey O'Hern.

4:00pm in Kline Geology Lab 123. Geology & Geophysics Colloquium. Kathleen Ritterbush, University of Utah, "Title TBA".

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

## News

**Robert Schoelkopf** (Sterling Professor of Applied Physics and Director of the Yale Quantum Institute) in Yale News, “Yale researchers create a ‘universal entangler’ for new quantum tech”. [Click here for full story](#).

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**Meng Cheng** (Assistant Professor of Physics) has been awarded an NSF Career Award, “Interplay of Symmetry and Topology in Condensed Matter Systems” to start April 1, 2019.

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Congratulations to **Dandan Ji** on the successful defense of her dissertation “Modeling of the dynamics large-scale coherent structures in the system of Rayleigh-Bernard Convection”, her thesis advisor was Eric Brown.

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Congratulations to **Meredith Powell** on the successful defense of her dissertation “The Environments of Accreting Supermassive Black Holes”, her thesis advisor was Meg Urry.

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Congratulations to **Matthew Steinecker** on the successful defense of his dissertation “Sub-Doppler Laser Cooling and Magnetic Trapping of SrF Molecules”, his advisor was David DeMille.

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The **6th Annual Yale Biophysics and Structural Biology Symposium** will take place April 26, 2019 in SCL 160. Yale graduate students and professors will present their research throughout the day. Breakfast and lunch will be provided, followed by a social hour. Graduate students/post-docs are encouraged to present a poster. [Please follow the link to register](#).

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### News from the Library

The Yale University Library is trialing **Films on Demand: Master Academic Collection** until 3/15/2019. The database includes videos from the physical and earth sciences from academic and popular culture producers ranging from museums to A&E to the TED franchise. If you want to look over the collection, use this link: <https://fod.infobase.com/PortalPlayLists.aspx?wid=98527>

If you have feedback on the collection's content and usefulness, please contact me at [kayleigh.bohemier@yale.edu](mailto:kayleigh.bohemier@yale.edu) by the trial's end on 3/15 so I can forward it on to those coordinating the trial.

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If you are interested in YQI events/news, please be sure to subscribe to their email list at <https://quantuminstitute.yale.edu/subscribe> in order to receive notifications of talks, etc..

## 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.

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### Workday News

#### *Coming soon – Expense report email notifications*

In the coming weeks, individuals will begin receiving email alerts about expense reports needing their approval in Workday. Faculty, staff and student employees, who have an expense report pending their approval, will receive a summary email every Monday. Recipients will be prompted to login to Workday and review the pending reports in their inbox.

As a reminder, expense reports with cash impact (money due payee or money due Yale) require payee approval. PCard only reports, with no personal expenses, do not route to the payee for approval.

If you have any questions, please contact the Finance Services Center at [sharedservices@yale.edu](mailto:sharedservices@yale.edu) or call 203-432-5394.

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### Workday Upgrade March 9, 2019 – What to Expect

On Saturday, March 9, Workday will be upgraded to a new version. Below you will find some helpful information to prepare you for the changes.

- *Workday Homepage Change* – “Inbox worklet” removed
- *Finance Updates* – Create Requisition – Deliver-To changes
- *Mobile Expenses renamed to Quick Expenses*
- *Payroll Accounting Adjustment* – Costing Company column
- *For Business Offices, Faculty Affairs and HR only* – Leave requests new routing

#### *Workday Extended Outage*

Workday will be unavailable for a maximum of 8 hours on Saturday, March 9 from 2:00 a.m. – 10:00 a.m.

[Click here for full information on the Workday updates](#).