

# Yale Department of Physics

Yale Physics Newsletter

June 14/June 21, 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).

During the summer months the newsletter will be produced every two weeks.

## Hints & Tips!

Welcome to our 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.

## Purchase orders

This is a reminder that for a purchase order to be processed the email **must** include the accounting information (where being charged and how much). So that the approval from the PI contains that information.

## Spending categories

Please note that there are now **separate** travel spending categories for domestic and international, please make sure to use the correct one when preparing a travel reimbursement.

## Climate and Diversity Committee News

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

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)

## News

Summer is upon us and I need items to keep our Facebook (<http://www.facebook.com/YalePhysicsDept>) page busy. Please send me a photo and brief statement of your summer research projects so that I can post them – it is exciting to see where everyone goes and what they are doing!

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Congratulations to **Danielle Norcini** on the successful defense of her dissertation “First search for eV-scale sterile neutrinos and precision measurement of the U-235 antineutrino spectrum with the PROSPECT experiment”! Thesis Advisor: Karsten Heeger.

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## Save the Date

Yale Summer Sessions, dates are: Summer Session A: May 27-June 28, 2019 and Summer Session B: July 1-August 2, 2019; University Preparations 3-week Program: July 1-19, 2019.

## Seminars

### Monday, June 17

9:00am-4:45pm in West Campus Conference Center (800 West Campus Drive). Yale Systems Biology Institute and Cancer Systems Biology at Yale Symposium 2019 “Advances in Systems Analysis of Aggressive Cancers”. [Click here for the program](#). [Registration required](#).

### Tuesday, June 18

10:00am in Wright Lab 216. EHS Orientation for Wright Lab Research Shop Users. Charles B. Watts, Yale University. [Registration required](#).

11:00am in Sloane Physics Lab 52. Atomic Physics Seminar. Lothar Maisenbacher, Max Planck Institute for Quantum Optics, “Precision spectroscopy of the 2S-6P transition in atomic hydrogen”. Host: David DeMille.

11:00am in YQI Seminar Room. Yale Quantum Institute Seminar. Rafael Alexander, Center for Quantum Information and Control, “Towards scalability and fault tolerance in continuous-variable quantum computation”. Hosts: Liang Jiang & Steve Girvin.

### Monday, June 24

4:00pm in Sloane Physics Lab 59. PEB Distinguished Speaker. Prof. Jack Wei Chen, Zhejiang University, Hangzhou, China, “Mechano-regulation of T-cell receptor’s antigen recognition”. Host: Prof. Xiaolei Su.

### Wednesday, June 26

9:30am-5:30pm in YQI Seminar Room. Yale Quantum Institute Symposium – Mesoscopic Quantum Physics & Beyond. [Click here for further information](#).

11:30am-12:30pm in Sloane Physics Lab 52. Gravitational Physics Seminar. Dr. Alissa Platania, Universität Heidelberg, “From renormalization group flows to black-holes spacetimes”. Host: Vincent Moncrief.

### Thursday, June 27

9:30am-5:30pm in YQI Seminar Room. Yale Quantum Institute Symposium – Mesoscopic Quantum Physics & Beyond. [Click here for further information](#).

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

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Congratulations to **Savannah Thais** on the successful defense of her dissertation “Utilizing Electrons in the Search for Associated Higgs Production with the ATLAS Detector: Higgs decaying to a tau pair and vector boson decaying leptonically”! Thesis Advisor: Sarah Demers.

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**Steve Lamoreaux** (Professor of Physics) and **Reina Maruyama** (Professor of Physics) HAYSTAC in *Physics Today* **72**(6), 48(2019). [Click here for full article.](#)

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**Meg Urry** (Israel Munson Professor of Physics) in Yale News (June 13, 2019), "Cold quasars could rewrite our understanding of a galaxy's lifecycle". [Click here for full story.](#)

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#### **EHS Safety Bulletin: June 2019**

[Read the June Safety Bulletin](#)

Topics include:

- S'mores and Safety
  - EHS Staff Member Honored
  - Chemical Waste Disposal in Sanitary Sewers
  - Backyard Pool Safety Tips
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#### **WorkLife Newsletter: June 2019**

- Summer Classes at Payne Whitney Gym
  - Openings at Yale-Affiliated Child Care Centers
  - Slim Down for Summer with Weight Watchers
  - Yale Outdoor Education Center
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[Click here for full issue.](#)

#### **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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#### **Kline Biology Tower KBT Café news**

The KBT Café will be closed for the entire month of August to facilitate their move to their new space between KBT and YSB.

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#### **EH&S Lab Safety Spot Checks**

To All PIs, Lab Assistants and Lab Contacts,

This notice is to inform you that Environmental Health and Safety (EHS) staff and interns will again be performing summer safety spot checks of Yale laboratories. The purpose of these spot checks is to assess personal protective equipment (PPE) practices and emergency preparedness. These random spot checks will occur during normal business hours, at night and on weekends. They augment the annual comprehensive safety inspections conducted by EHS staff.

EHS staff and interns will identify themselves (they carry a Yale ID), but will not interrupt laboratory work. Staff will observe laboratory practices, ask questions when feasible and are available to answer safety questions and provide information about Yale's safety

policies. Results of these spot checks will be reviewed by the Laboratory Safety Committee to seek ways to improve the safety of faculty, staff and students.

Please remember that Yale requires all people working in hazardous material laboratories to wear safety glasses or prescription glasses at all times. Yale also requires people in laboratories to always wear 1) safety glasses, 2) gloves, and 3) a lab coat when they handle hazardous material. Wearing PPE reduces injuries. For more information on PPE requirements, please see the Personal Protective Equipment Procedures for Laboratories.

If you ever work alone in a laboratory, EHS recommends that you and your PI: a) evaluate your risks before starting work, b) have a plan for contingencies, and c) have a way to get help quickly in an emergency.

Please let me know if you have any questions. Thank you for your cooperation.

Cathleen King, CIH

#### **Opportunities**

**CANADIAN-AMERICAN-MEXICAN**  
Graduate Student Physics Conference



**Deadline Extended! Apply by July 1.**

#### **Travel Support Available.**

The APS Forum on Graduate Student Affairs (FGSA) invites all physics graduate students at U.S. institutions to submit abstracts for this year's [Canadian-American-Mexican Graduate Student Physics Conference \(CAM 2019\)](#).

#### [Submit an Abstract](#)

**Abstracts are due Monday, July 1, 2019.** All conference participants will present their research through a poster and/or contributed talk. To apply, students must submit an abstract, CV, and letter of support from an advisor or supervisor. Travel support is available.

CAM is a biennial scientific conference and networking opportunity organized by and for graduate students from Canada, the United States, Mexico, and more recently, Cuba. The conference provides a space to develop professional skills, explore trending physics topics, and establish relationships with colleagues across geographical borders.

APS, the Canadian Association of Physicists, the Sociedad Mexicana de Fisica, Laurentian University, and SNOLAB have partnered to organize CAM 2019. Tours of SNOLAB, Canada's deep underground research laboratory, will be offered. Learn more by visiting the [conference website](#).

If you have any questions, please contact the local organizers ([info@cap.ca](mailto:info@cap.ca)) or the U.S. organizing committee/APS Forum on Graduate Student Affairs ([cam2019@aps.org](mailto:cam2019@aps.org)).