

Yale Physics



Week of December 10-16, 2023

Events

Monday, December 11

- 9:00 am - 1:45 pm **Department of Molecular, Cellular and Developmental Biology Symposium.** *Gene regulation and cell type-specific mechanisms underpinning plant defense*, Alex Cantó-Pastor, University of California, Davis; *Function Genomics of Adaptation to Abiotic Stresses*, Allison Gaudinier, University of California, Berkeley; *The right place and time: exploring heterogeneity of single cells across development*, Travis Lee, The Salk Institute for Biological Studies; and *Peroxisomal quality control: A multi-omic investigation*, DurreShahwar (Durre) Muhammad, Rice University in YSB Marsh Lecture Hall.
- 4:00 pm **Department of Molecular Biophysics & Biochemistry: Thomas A. Steitz Lecture.** *Turbo-Charging Synaptic Transmission*, James Rothman, Yale University, OML 202. Host: Donald Engelman. Refreshments served at 3:45 pm.

Tuesday, December 12

- 10:30 am **Physics Dissertation Defense.** *Stealth Dark Matter with Lattice Field Theory*, Kimmy Cushman, Yale University, SPL 56 + zoom. Thesis advisor: George Fleming.
- 1:00 pm **Yale Cell Biology Seminar.** *Machines on Genes: A Single-Molecule Perspective*, Shixin Liu, The Rockefeller University, TAC N107. Host: Yongli Zhang.

Wednesday, December 13

- 12:00 pm **YPPDO Seminar:** *Elliptical Career Paths*, Ellie Hadjiyska Schmelzer, Collins Aerospace, WL 216. Host: Victoria Misenti.
- 3:00 pm **Special Physics Club:** *P5 Committee Report*, Karsten Heeger & Sarah Demers, Yale University, SPL 57 + zoom, password: 595687.

Thursday, December 14

8:30 am - **Yale Quantum Institute Event:** *QuantumCT Research/Industry panel - Imagining a Quantum Future*, University of Connecticut School of Business. Register [here](#).

5:00 pm **Women and Gender Minorities in Science at Yale (WISAY) Event:** *WISAY Winter Social*, HQ 131. [RSVP](#) by 12/12/2023.

7:00 pm **Final Examinations begin.**

Friday, December 15

All day **Final Examinations** - held 9:00 am, 2:00 pm, and 7:00 pm

9:00 am - **Physics Event.** *Undergraduate Research Symposium - Fall 2023*, poster presentations of undergraduate research in physics, Kline Tower 14th Floor.

2:00 pm **Department of Molecular, Cellular and Developmental Biology Symposium.** *Unveiling Spatiotemporal Control of Arabidopsis Root Growth and Development*, Trevor Nolan, Duke University in Bass 305.

Saturday, December 16

All day **Final Examinations** - held 9:00 am, 2:00 pm, and 7:00 pm

[More events](#)

News



Congratulations Dr. Alex Sandomirsky

On December 1, Alex Sandomirsky successfully defended the thesis, “Explicit Conformal Blocks” (advisor: Witold Skiba).



Congratulations Dr. Jacob Curtis

On November 17, Jacob Curtis successfully defended the thesis “Error Mitigation and Detection in Circuit Quantum Electrodynamics Powered by QND Measurements” (advisor: Robert Schoelkopf).

[More news](#)

Community

Climate and Diversity Committee News

Join Women and Gender Minorities in Science at Yale for our winter social on **Thursday 12/14** from 5:00-7:00 in **Humanities Quadrangle 131**. The theme is “hygge”, a Danish word that

describes a mood of warmth, coziness, and conviviality. All are welcome! Come relax and socialize with other WISAY members over an assortment of warm beverages and light snacks. Take part in some with cookie decorating and fun crafts while listening to some holiday tunes. And definitely be sure to be there for a visit from the one and only Handsome Dan!

Please RSVP!

If interested in joining the CDC, please contact Rona Ramos, Chair of CDC. You may contact the whole committee at physics-cdc@mailman.yale.edu.

Lost and Found

Reminder, there is a Lost and Found box in the Chair's Office. [Please check our flickr album](#) to see what has been collected over the last AY. If you have an item go missing or think you have left it behind somewhere, please check with Kirstin or Jen in the Chair's Office (SPL 34).

COVID-19 Update

[Yale COVID-19 Information](#) - including updates on [testing](#) and [vaccinations](#).

Opportunities

Faculty Opportunities

[Next-Generation Fellowship](#) - Physicists Coalition for Nuclear Threat Reduction (deadline **December 15, 2023**)

[Assistant, Associate, Full Professor positions](#)- Princeton University (anticipated start date September 1, 2024; application deadline **December 31, 2023**)

[Tenure Track Position - Physics](#) - Cal Poly (anticipated start September 16, 2024; application deadline **January 2, 2024**)

[Assistant Professor, Condensed Matter and Materials Theory](#) - University of California, Santa Cruz (anticipated start July 1, 2024; initial deadline **January 2, 2024** and final deadline **June 30, 2024**)

[Assistant Professor Position in Quantum Computing & Quantum Information \(Computational/Theory\)](#) - Rensselaer Polytechnic Institute (deadline **January 8, 2024**)

[2024 Simons Emmy Noether Fellowship](#) - Perimeter Institute for Theoretical Physics (application deadline **January 15, 2024**)

[Spring 2024 Awards](#) - NASA CT Space Grant Consortium (deadline **January 17, 2024**). Our campus representative is [Andrew Szymkowiak](#).

[Two tenure-track Assistant Professor positions in experimental physics](#) - Illinois Wesleyan University

[Faculty positions in experimental and theoretical physics](#) - King Fahd University of Petroleum and Minerals, Physics Department

Postdoctoral Opportunities

[Postdoc Position on Gravitational Wave and Multi-Messenger Astrophysics with the LISA Mission](#) - University of Amsterdam (preferred start date October 1, 2024; deadline **December 15, 2023**)

Postdoctoral Associate in Experimental Cosmology - Yale University (preferred start time, Fall 2024; deadline December 15, 2023)

Next-Generation Fellowship - Physicists Coalition for Nuclear Threat Reduction (deadline December 15, 2023)

Postdoctoral Fellowships in Physics and Astronomy - Johns Hopkins University (deadline February 29, 2024)

Postdoc Position in Theoretical Condensed Matter and Computational Biophysics - UC Riverside

Experimental Postdoctoral Position in Electron-Positron Plasmas - UC Riverside

Postdoctoral Position in the Quantum Monte Carlo Group - Washington University in St. Louis

Postdoctoral Research Position in Experimental Neutrino Physics - University of Pittsburgh

Graduate Student Opportunities

Next-Generation Fellowship - Physicists Coalition for Nuclear Threat Reduction (deadline December 15, 2023)

Graduate Research Fellowships - Jane Street (deadline December 17, 2023)

NRC Research Associateship Programs - National Academies for Sciences, Engineering, Medicine (Online applications open as follows December 1 (closes February 1), March 1 (closes May 1), June 1 (closes August 1), and September 1 (closes November 1))

Stewardship Science Graduate Fellowship - Department of Energy National Nuclear Security Administration (deadline January 10, 2024).

Foreign Affairs Information Technology Fellowship - U.S. Department of State (deadline January 16, 2024).

Spring 2024 Awards - NASA CT Space Grant Consortium (deadline January 17, 2024). Our campus representative is [Andrew Szymkowiak](#).

Perimeter Scholars International- Perimeter Institute for Theoretical Physics (deadline February 1, 2024)

The Department of the Airforce Science & Technology Fellowship Program

Undergraduate Student Opportunities

Foreign Affairs Information Technology Fellowship - U.S. Department of State (deadline January 16, 2024).

Spring 2024 Awards - NASA CT Space Grant Consortium (deadline January 17, 2024). Our campus representative is [Andrew Szymkowiak](#).

Research Experience for Undergraduates - The Center for Neutrino Physics, Virginia Tech (application deadline February 15, 2024)

Undergraduate Research - Yale School of Medicine

Meetings, Schools, Workshops, and Conferences

American Physical Society Webinars - Careers, Activating Industry Careers: Artificial Intelligence and the Physics Industry, December 12, 2023 @ 12:00pm ET.

CircuitQED@20, January 10-12, 2024 - New Haven, CT. A celebration of the 20 years of circuit quantum electrodynamics.

[Gordon Research Seminar: The Bounds of Mechanical Systems From Probes of New Physics to Hardware for Quantum Technologies](#), March 2-3, 2024 - Ventura, CA. Applications for this meeting must be submitted by **February 3, 2024**.

[Gordon Research Conference: Mechanical Systems in the Quantum Regime](#), March 3-8, 2024 - Ventura, CA. Applications for this meeting must be submitted by **February 4, 2024**.

[American Physical Society March Meeting 2024](#), March 3-8, 2024 - Minneapolis, MN. In-person and virtual. Early bird registration through January 17, 2024).

[American Physical Society April Meeting 2024](#), April 3-6, 2024 - Sacramento, CA. [Abstract submissions](#) open Monday, November 13, 2023 and will **close on January 5, 2024, at 4:00 p.m. ET**.

[American Physical Society 55th Annual Meeting of the APS Division of Atomic, Molecular and Optical Physics](#), June 3-7, 2024 - Fort Worth, TX. Registration has yet to open.

[Undergraduate School on Experimental Quantum Information Processing](#), June 3-14, 2024 - University of Waterloo. Application deadline **January 2, 2024**.

[Boulder School for Condensed Matter and Materials Physics: Self-Organizing Matter](#), July 1-26, 2024 - University of Colorado Boulder. Application deadline **January 15, 2024**.

[MCQST Summer Bachelor Program](#), August 3-30, 2024 - Munich, Germany. Application period **1 Nov. 2023 - 31 Jan. 2024**.



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For further information email [Daphne Klemme](#). Please click on the links to contribute to the newsletter or update alumni information.

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