

# Yale Physics



## Week of October 22-28, 2023

### Events

#### Monday, October 23

- 3:30 pm **Physics Club:** *Exploring Quantized Flux: Insights into Superconductivity*, Kathryn Moler, Stanford University, SPL 57 + zoom (password: 595687). Hosts: Steve Girvin & Karsten Heeger.
- 3:30 pm **Department of Molecular Biophysics & Biochemistry Seminar:** *Evolution of Protein Dynamics and its Exploitation for Enzyme and Drug Design*, Dorothee Kern, Brandeis University, Bass 305. Hosts: Sara Gelles-Watnick & Klarissa Hollander.

#### Tuesday, October 24

- 9:00 am **Physics Dissertation Defense:** *Toward the Quantum Control of the Motional State of Superfluid  $^4\text{He}$  in a Optomechanical Resonator*, Jiaxin Yu, Department of Applied Physics, Yale University, SPL 56 + zoom. Thesis Advisor: Jack Harris.
- 1:00 pm **NPA Seminar:** *Precision measurements with multi-strange baryons at the LHC with the ALICE experiment*, Romain Schotter, University of Strasbourg, WL 216. Host: Laura Havener.
- 4:00 pm **Particle Theory Seminar:** *Parity Domain Walls and the Cosmology of Nelson-Barr*, Qianshu Lu, IAS and NYU, SPL 48.

#### Wednesday, October 25

- 10:00 am **Physics and QBio Hageromo Hour:** *The evolution of kinetic proofreading*, Kabir Husain, University of Chicago, Bass 405. Hosts: Michael Abbott, Isabella Graf, and Mason Rouches.
- 12:00 pm **Yale School of Medicine, Center for Systems and Engineering Immunology Seminar:** *Engineering Immune Signaling for Cancer Therapy*, Xiaolei Su, Yale School of Medicine, 100 College, 11th Floor, rm. 1116. Host: John S. Tsang.
- 4:00 pm **Department of Molecular, Cellular and Developmental Biology Seminar:** *The nuclear envelope: a paradigm for membrane dynamics and function*, Shirin Bahmanyar, Yale University, Bass 305. Tea at 3:45.

4:00 pm **Earth & Planetary Science Colloquium:** *Title - To Be Announced*, Darryn Waugh, Johns Hopkins University, KGL 123.

4:00 pm **Department of Mathematics Colloquium:** *Title - To Be Announced*, Akhil Mathew, University of Chicago, KT 219.

## Thursday, October 26

1:00 pm **Condensed Matter Theory Seminar:** *Long-range entanglement from frustrated measurements: Kitaev spin liquids*, Zhu-Xi Luo, Harvard University, SPL 51.

1:00 pm **NPA Seminar:** *Towards Quantum Tests and Dark Matter Searches with Magnetically-Levitated Superconductors*, Gerard Higgins, Institute for Quantum Optics and Quantum Information (IQOQI), Vienna, WL 216. Host: Jiaxiang Wang.

2:30 pm **Yale Astronomy Colloquium:** *Galaxy clusters as dark matter laboratories*, Benedikt Diemer, University of Maryland, KT 509 A & B.

4:00 pm **Yale School of Engineering & Applied Science Recruitment Event:** *From Yale Sciences to Goldman Sachs: Rick Li ('05 PhD Physics) discusses his career path, lessons learned, and career opportunities*, Rick Li, Goldman Sachs, DL 220.

## Friday, October 27

10:30 am **AMO Seminar, Quantum Gases Day:** *Ultracold fermions in quantum waveguides: when is 1D no longer 1D?*, Frédéric Chevy, Ecole Normale Supérieure, SPL 51. Host: Nir Navon.

11:15 am **AMO Seminar, Quantum Gases Day:** *Orbital interactions between strongly confined fermions*, Joseph Thywissen, University of Toronto, SPL 51. Host: Nir Navon.

2:00 pm **Physics Dissertation Defense:** *Many-Body Physics in a Ultracold Uniform Fermi Gas*, Yunpeng Ji, Yale University, SPL 59. Thesis committee: Nir Navon (advisor), Yoram Alhassid, Leonid Glazman, Jack Harris.

## Saturday, October 28

6:30 pm **Yale Physics Halloween Demo Show:** SPL. Yale Physics will host "Haunted Hallway" demonstrations and a Halloween-themed demo show for the public at Sloane Physics Laboratory from 6:30-8:30 p.m. For more information, contact Stephen Irons.

[More events](#)

## News



### Yale Physics plays role in U.S. nuclear physics priorities

Yale Physics researchers, including several members of Yale's Wright Lab, lead experiments and initiatives that were recommended in the 2023 Long Range Plan for Nuclear Science as highest priority for new projects with major discovery potential.

## Community

### Climate and Diversity Committee News

#### The Belonging at Yale Series, Do We Need A Deeper Dive?

Friday, October 27 | 12 - 1:15 PM | Zoom | [RSVP](#)

The Future Leaders of Yale (FLY), the Office of Diversity and Inclusion, Belonging at Yale, Working Women's Network, Yale Latino Networking Group, and Yale Veterans Network presents The Belonging at Yale Series. Next Friday's dialogue, "Do We Need A Deeper Dive?," is part one of a three-part event series focusing on belonging in a complex workplace and environment. These events will explore what the new term of belonging at an organization means and offer diverse experiences and pathways to show and be authentic in a workspace. This panel series will host several speakers and conclude how we can continue and or begin to share these complex spaces with others.

### Yale Tango Club - Beginners Bootcamp

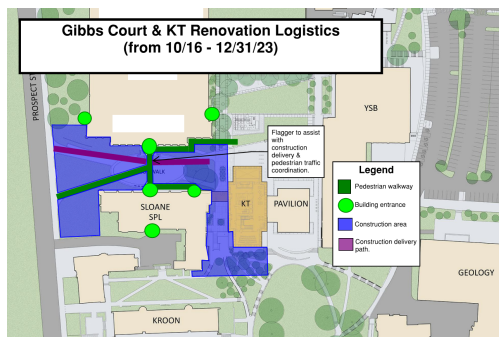
Sunday, October 29 | 1:00-3:00 PM | 367 Cedar St, Harkness Ballroom

Come learn tango in a comfortable and open environment! Experience hours of fun with dancing, followed by a 3 week class series, dance parties, social events and a wonderful community! [Register here](#). Contact [Rafael Dajpra](#) for further information.

*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](mailto: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).



## Science Hill Logistics & Pedestrian Routing Changes

Please note changes to pedestrian routing and construction fence lines in the SCL and SPL area, effective through 12/31/23.

## COVID-19 Update

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

## Opportunities

## Faculty Opportunities

Faculty position in Radiation and Nuclear Physics - University of Memphis (deadline **October 20, 2023**)

**Associate/Full Professor, Experimental Atomic, Molecular, and Optical Physics - Yale University (deadline November 1, 2023)**

Assistant Professor in Quantum Information Science - UC Berkeley (deadline **November 13, 2023**)

Assistant Professor position in the fields of Neutrino Physics, Particle Astrophysics, Cosmology and Gravitational Waves - UC Riverside (deadline **November 19, 2023**)

Tenure-track faculty position in Quantum Condensed Matter Theory- Brown University (application deadline **November 30, 2023**)

Assistant, Associate, Full Professor positions - Princeton University (application deadline **December 31, 2023**)

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

Tenure-Line Faculty hire in Experimental Dark Matter/Neutrinos - Brown University (application deadline **March 15, 2024**)

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

Dicke Fellow - Princeton University (deadline **October 20, 2023**)

**2024 Yale Quantum Institute Postdoctoral Fellowship - Yale University, YQI (deadline October 29, 2023 at 11:59pm ET)**

**2024 Yale Prize Postdoctoral Fellowship - Yale University (deadline October 31, 2023)**

**Yale Center for Astronomy & Astrophysics Postdoctoral Fellowship - Yale University (deadline November 3, 2023)**

2024 Postdoctoral Fellowships - Perimeter Institute (deadline **November 6, 2023** for positions to start in September 2024.)

Linus Pauling Postdoctoral Fellowship- Pacific Northwest National Laboratory (deadline **November 9, 2023**)

**Yale Mossman Fellowship - Yale University (deadline November 15, 2023)**

Edwin Thompson James Fellowship- Washington University in St. Louis (deadline **November 15, 2023**)

Harvard Quantum Initiative in Science and Engineering Postdoctoral Fellowships - Harvard University (deadline **November 15, 2023**)

**Postdoctoral Associate in Experimental Cosmology - Yale University (deadline December 15, 2023)**

[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](#)

## Graduate Student Opportunities

[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)**)

[Foreign Affairs Information Technology Fellowship](#) - U.S. Department of State (deadline **January 16, 2024**), [Webinar](#) for more information.

[Perimeter Scholars International](#)- Perimeter Institute for Theoretical Physics (deadline **February 1, 2024**)

[The Department of the Airforce Science & Technology Fellowship Program](#)

## Undergraduate Student Opportunities

[Fellowship Program](#) - D.E. Shaw & Company (deadline **November 13, 2023**), [Summer 2024 internships available for Class of 2025](#)

[Research Assistant](#) - Yale School of Medicine (contact [Navin Kumar](#) for further information)

- Research Assistant – Harm Reduction (send CV to Keyu Chen [keyuchen2020@gmail.com](mailto:keyuchen2020@gmail.com))
- Research Assistant – Data Analysis & Harm Reduction (send CV to Keyu Chen [keyuchen2020@gmail.com](mailto:keyuchen2020@gmail.com))

[Foreign Affairs Information Technology Fellowship](#) - U.S. Department of State (deadline **January 16, 2024**), [Webinar](#) for more information.

## Meetings, Schools, Workshops, and Conferences

[American Physical Society Webinars](#) - PULSE Undergraduate Research Webinar: Understanding Independent Research, October 25, 2023 @ 10:00am ET.

[American Physical Society March Meeting 2024](#), March 3-8, 2024 - Minneapolis, MN and virtual (dates to be announced). American Physical Society March Meeting is a scientific research conference that brings together more than 13,000 physicists from around the world to showcase their work, connect with others, and discover groundbreaking physics research. Join us in 2024 for an extra special week as we celebrate the 125th anniversary of APS.

**Registration opens November 2023. Submit your abstract through October 20, 2023.**

[American Physical Society Conferences for Undergraduate Women in Physics \(CUWiP\)](#), January 19-21, 2024 - nearest locations are: Boston University & Wellesley College; City University of New York, Graduate Center; or United States Military Academy, West Point. The 2024 Millie Dresselhouse CUWiP Keynote Speaker is [Dr. Jocelyn Bell Burnell](#), Royal Society of Edinburgh. **Applications close October 23, 2023.**



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

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