

To view this email as a web page, go [here](#).

# Yale Physics



## Week of October 29-November 4, 2023

### Events

#### Monday, October 30

- 3:30 pm **Physics Club:** *Neutrino Astronomy: From Dream to Reality*, Naoko Kurahashi Neilson, Drexel University, SPL 57 + zoom (passcode: 595687). Host: Reina Maruyama.
- 4:00 pm **Molecular Biophysics & Biochemistry Seminar:** *Building Cellular Memories as a Mechanism of Therapy Resistance in Melanoma*, Arjun Raj, University of Pennsylvania, Bass 305. Hosts: Courtney Brown and Isaac Vock.

#### Tuesday, October 31

- 12:00 pm **WIDG Seminar:** *Let There Be Light... in Neutrinoless Double Beta Decay Detectors*, Sierra Wilde, Yale University, WL 216.
- 2:00 pm **AMO Seminar:** *Quantum network based on color centers in diamond nanocavities*, Aziza Suleymanzade, Harvard University, SPL 51. Host: Nir Navon.
- 4:00 pm **Particle Theory Seminar:** *The Virasoro Minimal String*, Scott Collier, MIT, SPL 48.

#### Wednesday, November 1

- 10:00 am **Physics & QBio Hagaromo Hour:** *Energy and information flows in biomolecular machines*, David Sivak, Simon Fraser University, Bass 405. Hosts: Michael Abbott, Isabella Graf, and Mason Rouches.
- 4:00 pm **Department of Mathematics Colloquium:** *Title - To Be Announced*, Xinwen Zhu, Stanford University, KT 219.
- 5:30 pm **History & Foundations of Physics Reading Group Meeting 3.2:** *Non-Empirical Theory Assessment in Theoretical Physics*, KT 501. Hosts: Yarone Tokayer, Molly Watts, and Sebastian Fernandez-Mulligan.

#### Thursday, November 2

- 1:00 pm **NPA Seminar:** *Studying jet substructure with energy correlators at colliders*, Wenqing Fan, Lawrence Berkeley National Laboratory, WL 216. Hosts: Laura Havener and Ian Moulton.
- 1:00 pm **Condensed Matter Theory Seminar:** *Exact fractional Chern insulators in flatbands with ideal quantum geometry*, Jie Wang, Harvard University, SPL 51.
- 2:30 pm **Yale Astronomy Colloquium:** *Cosmic Messengers: The Galaxies' Hidden Secrets*, Marco Ajello, Clemson University, KT 509 A&B.
- 3:00 pm **Yale School of Engineering & Applied Science:** *Cybersecurity*, Royal Hansen, Google, Tsai CITY, 17 Prospect Street, [Register here](#).

## Friday, November 3

- 11:00 am **Special Solid State & Optics Seminar:** *Correlation-enhanced electron-phonon interaction in oxide superconductors from first-principles GW perturbation theory*, Zhenglu Li, University of Southern California, BCT C031. Host: Yu He.

## Saturday, November 4

- 9:00 am - 1:30 pm **Girls' Science Investigations:** *The World of Light*, Sloane Physics Lab. [Register here](#).

[More events](#)

## News



### Puri awarded Landaur and Bennett award in Quantum Computing

Shruti Puri, assistant professor in applied physics and physics, received the Rolf Landauer and Charles H. Bennett Award in Quantum Computing from the American Physical Society. This award recognizes recent outstanding contributions in quantum information science.



### Tseng awarded 2023 GIRA award

Wright Lab graduate student Yu-Han Tseng has been awarded the competitive Graduate Instrumentation Research Award (GIRA) for his project "Development of Quantum Optomechanical Sensors for Dark Matter and Sterile Neutrino Searches"



## Rai elected to Diversity Office for the ALICE collaboration

Graduate student Ananya Rai from the Wright Lab Relativistic Heavy Ion Group (RHIG) was just elected as the junior representative to the Diversity Office of the ALICE Collaboration at the Large Hadron Collider (LHC).



## Congratulations Dr. Suhas Ganjam

On October 18, 2023, Suhas Ganjam, successfully defended the thesis, "Improving the Coherence of Superconducting Quantum Circuits through Loss Characterization and Design Optimization" (advisor: Robert Schoelkopf).



## Yale Physics students experience scientific wisdom of the ages at Yale's Beinecke Library

On October 6, Chiara Mingarelli, assistant professor of physics, organized a viewing at the Yale Beinecke Library of Yale-owned historical scientific works for students in her General Physics Laboratory class, in collaboration with Anna Franz, Assistant Program Director of Education at Beinecke and Kayleigh Bohemier, Science Research Support Librarian at Yale's Marx Library.

[More news](#)

# Community

## Climate and Diversity Committee News

### The Indigenous Leaders at Yale Launch Event

Friday, November 3 | 11:30 AM – 1 PM

Yale School of Management, Snyder Forum, 165 Whitney Ave

We are pleased to invite everyone to a luncheon in which the Office of Diversity & Inclusion (ODI) will formally announce Yale's ninth affinity group, the Indigenous Leaders at Yale (ILY). Friends and family are welcome at this community celebration. Come learn about this new group's formation, initial events, and hear about upcoming events!

The ILY was formed to offer community for those who identify as Indigenous Peoples. Our mission is to provide our members an opportunity to connect with others, grow professionally, and center efforts on recruitment and retention of Indigenous staff and faculty at Yale through community and education. [See the agenda and register here..](#)

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).

## Outreach



**Science Café** 

Join us for this iteration of Science Café. We have prepared multiple interactive demonstrations on topic like physics, biology and neuroscience. You will also be able to hear our wonderful speakers talk about a different topics in STEM.

December 3rd from 1-4PM at the Yale Science Building

The poster features a grid of six small photographs showing various scenes from a Science Café event, including people interacting at tables, a speaker at a podium, and a large audience seated in a room.

## Science Café Fall 2023

OpenLabs is currently seeking volunteers to participate in this year's iteration of Science Café. The event will take place on December 3rd from 1PM-4PM and will consist of multiple science demonstrations and interactive stations that are followed by short talks from Yale graduate students or postdocs. Students or postdocs interested in presenting, will need to audition with Science Café leadership and participate in a practice session prior to the event. Auditions will occur in early November. Volunteers can select to participate by helping set-up the stations, running the stations or cleaning up after the event is over. If interested in volunteering or speaking, fill out [this form](#). Examples of previous talks are available on our [YouTube page](#).

## COVID-19 Update

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

# Opportunities

## Faculty Opportunities

**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)

Two Assistant Professor positions - Columbia University in the City of New York (application deadline December 1, 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**

**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)

Postdoc Position in Gravitational Wave Probes of Particle Dark Matter - University of Amsterdam (deadline December 1, 2023)

Postdoc Position on Gravitational Wave and Multi-Messenger Astrophysics with the LISA Mission - University of Amsterdam (deadline December 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**

PhD position in gravitational wave probes of particle dark matter - University of Amsterdam (deadline December 1, 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). [Register here](#) for an informational webinar on Wednesday, December 13, 2023 at 1:00pm CT.

[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](#) - Careers: Activating Industry Careers: Mid-Career Advancement in the Physics Industry, November 14, 2023 @ 12:00pm 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.



---

[Visit our Website](#) | [Contact Us](#) | [Physics Flickr](#)

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

This email was sent by: Yale University  
P.O. BOX 208109, New Haven, CT, 06520-8279 US

[Update Your Preferences](#)   [Privacy Policy](#)