

# Yale Physics



## Week of February 18-23, 2024

### Events

#### Monday, February 19

- 3:30 pm **Physics Club:** *Nature's Hottest Fluid: Measuring the Inner Workings of the Quark Gluon Plasma*, Anne Sickles, University of Illinois, Urbana-Champaign, SPL 57 + zoom (password: 595687). Refreshments served at 3:00 pm. Host: Laura Havener.
- 4:00 pm **Molecular Biophysics & Biochemistry - Paul Sigler Lecture:** *Cellular Structural Biology: A Potent Approach to Reveal the Molecular Mechanism of Cellular Processes*, Gaia Pigno, Centre for Structural Biology at the Human Technopole in Milan, Italy, BML Brady Auditorium. Refreshments served at 3:45 pm. Host: Joe Howard.

#### Tuesday, February 20

- 10:30 am **WIDG Seminar:** *Jet Substructure with Energy Correlators*, Bianka Meçaj, Yale University, WL 216. Host: Youqi Song.
- 4:00 pm **Particle Theory Seminar:** *Transverse Momentum Distributions of Heavy Hadrons and Polarized Heavy Quarks*, Zhiquan Xun, MIT, SPL 51.

#### Wednesday, February 21

- 5:30 pm **History and Foundations of Physics (HoFoP) Reading Group:** *Meeting 4.1 - Unpacking Scientist Narratives and Community Sociology*, KT 401. Sponsored by the Franke Program in Science and the Humanities. Hosts: Yarone Tokayer, Molly Watts, and Sebastian Fernandez-Mulligan.

#### Thursday, February 22

- 1:00 pm **Condensed Matter Theory Seminar:** *Many-body physics with synthetic quantum matter*, Alexey Gorshkov, NIST and University of Maryland, SPL 51.
- 1:00 pm **NPA Seminar:** *New Results from LEGEND-200*, Julieta Gruszko, The University of North Carolina, Chapel Hill, WL 216. Host: Sabrina Zacarias.

2:30 pm **Yale Astronomy Colloquium:** *Title to be announced* , Farnik Nikakhtar, Yale University, KT 205.

4:00 pm **Department of Chemistry - Silliman Physical Chemistry Seminar:** *Investigating Peptide Structure and Polymorphism with 2D IR Spectroscopy*, Lauren Buchanan, Vaanderbilt University, SCL 160.

## Friday, February 23

1:00 pm **WIDG Seminar:** *Expanding the mass range for axion searches through quantum measurement and cavity innovation with HAYSTAC experiment*, Xiran Bai, Yale University, WL 216. Host: Yu-Han Tseng.

[More events](#)

## News



### Yale Women in Physics organizes first CUWiP-Y

On Friday, February 2, 2024, the Undergraduate Yale Women in Physics (WiP+) held its first Conference for Undergraduate Women and Gender Minorities in Physics - Yale Edition (CUWiP-Y) in the third floor lounge of Sloane Physics Lab.



### Ian Moul wins Wu-Ki Tung Award

Ian Moul has won the Wu-Ki Tung Award for Early-Career Research on Quantum Chromodynamics (QCD) for his “pioneering work on QCD energy correlators, including their all-orders factorization, multi-loop structure, phenomenological applications, and connections to conformal field theory”.

[More news](#)

## Community

### Climate and Diversity Committee News

“Shining Light on Truth: New Haven, Yale, and Slavery,” is a new exhibition at the New Haven Museum, 114 Whitney Avenue, from February 16. It is presented by the Yale Beinecke Library. The exhibition complements the publication of the new book “[Yale and Slavery: A History](#)” by David W. Blight with the Yale and Slavery Research Project and draws from the research project's key findings in areas such as the economy and trade, Black churches and schools, the 1831 Black college proposal, and memory and memorialization in the 20th century and today. The exhibition has a special focus on stories of Black New Haven, including early Black students and alumni of Yale.

**Diaper Drive: February 19-March 8**

Diapers are a basic need for infants, babies, and toddlers. Diapers are a basic need for infants, babies, and toddlers. They are just as essential to their health and wellbeing as food and shelter. But diaper need is real: nearly 1 in 3 families struggle to afford diapers to keep their babies clean, dry, and healthy. Diapers can cost \$100 to \$150 per month. And Medicaid; the Supplemental Nutrition Assistance Program (SNAP); and the Special Supplemental Nutrition Program for Women, Infants, and Children (WIC) **do not cover the cost of diapers**. You may drop off a donation in-person at more than 20 diaper drive collection locations on campus (a few close locations are listed below) or you may donate online [here](#).

- 221 Whitney Ave., 1st fl lobby – Human Resources
- 195 Prospect St., Kroon Hall – School of Environment
- 17 Hillhouse Ave. – SEAS

*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).

## Community



### 2024 Snow in February

After a mostly warm and rainy winter in New Haven, snow came! On Tuesday, the Yale Physics community enjoyed an unexpected snow day. [Click here](#) for various snow pictures sent in by our community members.

## COVID-19 Update

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

## Opportunities

### Faculty Opportunities

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

[Postdoctoral Fellowships in Physics and Astronomy - Johns Hopkins University \(deadline \*\*February 29, 2024\*\*\)](#)

[Postdoctoral Research Position in Experimental Neutrino Physics - University of Pittsburgh \(deadline \*\*March 31, 2024\*\*\)](#)

[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](#)

## 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 \(closes November 1\)\)](#)

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

## Undergraduate Student Opportunities

[Physics Research Positions for Undergraduate Physics Majors - University of Notre Dame \(deadline \*\*February 19, 2024\*\*\)](#)

[REU Interactions of Matter, Light & Learning - Kansas State Physics \(application review begins \*\*February 19, 2024 until all places are filled\*\*\)](#)

[Undergraduate Research - Yale School of Medicine](#)

## Meetings, Schools, Workshops, and Conferences

[American Physical Society Webinars - Student Success, PULSE Undergraduate Research Webinar: Effectively Communicating your Findings, February 28, 2024 @ 10:00 a.m. ET.](#)

[American Physical Society March Meeting 2024, March 3-8, 2024 - Minneapolis, MN. In-person and virtual. Regular registration through \*\*February 20, 2024\*\*.](#)

[American Physical Society April Meeting 2024, April 3-6, 2024 - Sacramento, CA. Early Bird registration open until \*\*February 20, 2024\*\*.](#)

[Asian Americans and STEM conference, May 10, 2024 - Yale University. \[Register now\]\(#\).](#)

[Annual meeting of the Physics of Living Systems \(PoLS\) Student Research Network, June 3-7 2024 - Trieste, Italy. Application deadline \*\*February 20, 2024\*\*.](#)

[American Physical Society 55th Annual Meeting of the APS Division of Atomic, Molecular and Optical Physics, June 3-7, 2024 - Fort Worth, TX. Early registration open until \*\*May 3, 2024\*\*.](#)

[2024 Fall Meeting of the APS Division of Nuclear Physics, October 6-10, 2024 - Boston, MA.](#)



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

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