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# Yale Physics



## Week of February 11-17, 2024

### Events

#### Monday, February 12

3:30 pm **Physics Club:** *The Physics of Football*, Timothy Gay, University of Nebraska, SPL 57 + [zoom](#) (passcode: 595687). Host: [Reina Maruyama](#).

#### Tuesday, February 13

4:00 pm **Particle Theory Seminar:** *Quantum Detectorology*, Murat Kologlu, Yale University, SPL 51.

4:00 pm **Marx Science and Social Science Library Workshop:** *Demystifying the Literature Review: For Science Grad Students*, Kayleigh Bohemier and Jennifer Snow, Yale University, Online event. [Click here for full schedule](#).

#### Wednesday, February 14

10:00 am **Yale Quantum Institute Professional Development Workshop:** *Public Speaking*, Fay Simpson, Impact Theatre, YQI Seminar Room. [Register now!](#) Space is limited to 20 participants.

12:00 pm **Yale Physics Professional Development Organization Workshop:** *Preparing for Faculty Positions*, Reina Maruyama and Laura Havener, Yale University, WL 216. Host: [Fernando Flor](#).

1:00 pm **Graduate Theory Seminar:** *Title To Be Announced*, Zixia Wei, Harvard University, SPL 51.

#### Thursday, February 15

1:00 pm **Condensed Matter Theory Seminar:** *Fractional quantum anomalous Hall effects in rhombohedral multilayer graphene in the moiréless limit and in Coulomb imprinted superlattice*, Yahui Zhang, Johns Hopkins University, SPL 51.

1:00 pm **NPA Seminar:** *Possibilities for Neutrinos in Nuclear Security*, Rachel Carr, United States Naval Academy, WL 216. Co-sponsored by the Yale Kimball Smith Series.

- 2:30 pm **Yale Astronomy Colloquium:** *Title to be announced*, Daniella Bardalez Gagliuffi, Amherst College, KT 205.
- 3:00 pm **Yale Engineering Dean's Invited Speaker:** *Discussion of background, leadership advice, and what AI means for Wikimedia*, Maryana Iskander, Wikimedia Foundation, TSAI City Studio to be followed by Q&A and a casual reception.
- 4:00 pm **PEB Distinguished Speaker:** *Controlling chaos in active biological fluid*, Linda Hirst, University of California, Merced, BASS 305. PEB reception to follow. Host: Charles Lomba.

## Friday, February 16

- 11:00 am **Elusives Journal Club:** *Synchronous Detection of Cosmic Rays and Correlated Errors in Superconducting Qubit Arrays*, Eleanor Graham, Yale University, WLC 245. Hosts: Xiran Bai and Eleanor Graham. Reading.
- 12:00 pm **PEB Spring Career Series:** *Academic vs Industry Postdoc Panel*, Dr. Elise Bullock Gaskell (Columbia University), Dr. Brittany Angarola (BBS MCGD Track), and Dr. Valerie Su (Sanofi), via zoom. [Register for link](#).

[More events](#)

## News



### Celebrating the International Day of Women and Girls in Science

February 11th is the 9th International Day of Women and Girls in Science. Yale Physics celebrates its community members, who are frequently recognized for their advocacy and efforts pertaining to efforts to increase awareness and opportunities for women and girls in STEM fields.



### Natarajan elected a Fellow of the Astronomical Society

Priyamvada Natarajan, a Yale theoretical astrophysicist who maps the unseen universe, has been elected a fellow of the American Astronomical Society (AAS) for her groundbreaking work in dark matter and black hole physics.



### CUWiP at CUNY 2024

Twelve undergraduates from the Yale Women in Physics (WiP) group traveled to New York City to attend one of the fourteen American Physical Society Conferences for Undergraduate Women in Physics (CUWiP).



## Isabella Graf & Ben Machta research in the news

In the animal kingdom, there are many grand examples of species that make sense of their world by expertly deciphering even weak signals from their surroundings. A pair of Yale physicists may have discovered the answer in a new mathematical model, described in a new study in the journal *Proceedings of the National Academy of Sciences*.

[More news](#)

## Community

### Climate and Diversity Committee News

#### Lunarfest 2024: Year of the Dragon

February 10th begins the 2024 Lunar New Year. Join the [Yale-China Association](#) for Connecticut's largest annual Lunar New Year celebration on Saturday, February 24, beginning at 10am on Whitney Avenue in New Haven to ring in the New Year with their Lion Dance Parade. The celebration features a traditional lion dance troupe and local artists. This family-friendly event is free and open to the public.

*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).

#### COVID-19 Update

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

## Opportunities

### Faculty Opportunities

[Faculty Position: Research Assistant, Associate, or Full Professor - CENPA](#) - University of Washington, Seattle (deadline **February 16, 2024**).

[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**)

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 (application deadline **March 31, 2024**)

## 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

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

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**.

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. Meeting registration to open in early March.

2024 Fall Meeting of the APS Division of Nuclear Physics, October 6-10, 2024 - Boston, MA.



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