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Yale Physics



Week of November 5-11, 2023

Events

Monday, November 6

4:00 pm **Molecular Biophysics & Biochemistry Seminar.** *Deciphering Microbes and Microbiomes with Chemistry*, Emily Balskus, Harvard University, Bass 305. Host: Chrisan Fernando.

Tuesday, November 7

4:00 pm **Particle Theory Seminar:** *Line defects in CFTs: from magnets to Wilson lines*, Gabriel Cuomo, Stonybrook University, SPL 48.

4:00 pm **Department of Chemistry Physical Chemistry Seminar:** *Unraveling the Vibrational Spectral Signatures and Ultrafast Dynamics of Strong H-bonds with Cryogenic Ion and 2D IR Spectroscopies*, Joseph Fournier, Washington University in St. Louis, SCL 160. Host: Mark Johnson.

Wednesday, November 8

1:00 pm **Solid State & Optics Seminar:** *Novel Resonances and Exceptional Points in Non-Hermitian Optical Systems*, Li Ge, City University of New York, YQI Seminar Room + zoom (pw 908507). Host: Douglas Stone.

2:00 pm **AMO Seminar:** *Understanding classical and quantum chaos through adiabatic transformations*, Anatoli Polkovnikov, Boston University, SPL 51. Host: Nir Navon.

4:00 pm **Molecular, Cellular and Developmental Biology Seminar:** *Title - To Be Announced*, Sophie Dumont, University of California San Francisco, TBD. Host: Binyam Mogessie.

4:00 pm **Earth & Planetary Science Colloquium:** *Title - To Be Announced*, Meennakashi Wadhwa, Arizona State University, KGL 123.

Thursday, November 9

- 9:00 am - 4:00 pm **Yale Quantum Institute Event: *Quantum Computer Cybersecurity Symposium (QCCS 2023)***, Yale Quantum Institute, 17 Hillhouse, 4th Floor. Organizer: Jakub Szefer, Yale University. [Register here](#).
- 1:00 pm **NPA Seminar: *Searching for the QCD critical point with the Beam Energy Scan program at RHIC***, Debora Mroczek, University of Illinois Urbana-Champaign, WL 216. Host: Fernando Flor.
- 1:00 pm **Condensed Matter Theory Seminar: *Light emission from strongly driven many-body systems***, Andrea Pizzi, Harvard University, SPL 51.
- 2:30 pm **Yale Astronomy Colloquium: *A Synoptic View of Fast Radio Bursts with CHIME***, Kiyo Masui, Massachusetts Institute of Technology, KT 509 A&B.

Friday, November 10

- 3:30 pm **Physics Department Event: *2023 Undergraduate Research Fair***, SPL 3rd Floor Lounge. Host: Sarah Demers, Director of Undergraduate Studies.

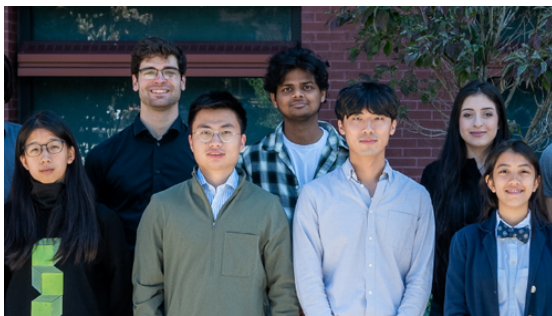
[More events](#)

News



Demers elected American Physical Society Fellow

Sarah Demers, professor of physics, director of undergraduate studies, and a member of Yale's Wright Lab, has been elected as a Fellow of the American Physical Society (APS) for her contributions and leadership in ATLAS and the physics community.



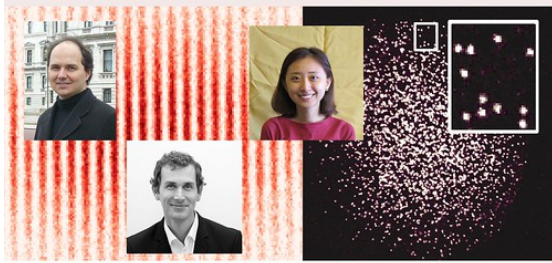
Congratulations Dr. Lucy Yu!

On October 24, 2023, Lucy Yu, an applied physics student and a member of Yale's Wright Lab, successfully defended the thesis, "Toward the Quantum Control of the Motional State of Superfluid 4He in a Optomechanical Resonator" (advisor: Jack Harris).



Congratulations Dr. Yunpeng Ji!

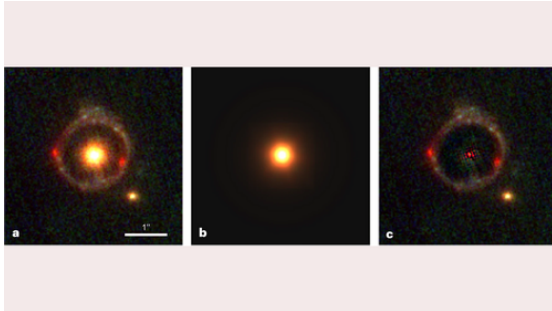
On October 27, 2023, Yunpeng Ji, successfully defended the thesis, "Many-Body Physics in an Ultracold Uniform Fermi Gas" (advisor: Nir Navon).



Quantum Gases Day - Oct. 27, 2023

Quantum Gases Day

On October 27, 2023, Nir Navon held "Quantum Gases Day" to mark Yunpeng Ji's defense. Frédéric Chevy, Ecole Normale Supérieure and Joseph Thywissen, University of Toronto presented seminars and attended Yunpeng's defense.



van Dokkum Research in the news

In a new Nature Astronomy study led by Yale astronomer Pieter van Dokkum, researchers present details of an Einstein ring spotted by the James Webb Space Telescope (JWST).

[More news](#)

Community



Staff Team Building

On Monday, October 23, 2023, several members of the physics department administrative staff went to Lyman Orchards to carve pumpkins and enjoy the beautiful autumn day. A good time was had by all and the results of the carving session can be found on the departmental [flickr](#) album.



Halloween Happy Hour

Graduate students celebrate the last Friday of the month with a special Halloween edition spooky happy hour. Many people showed up in costumes and got to mini trick or treat with candy buckets provided alongside the food. The next happy hour will be in December with our end of semester holiday party, so be on the look out in the next few weeks for an email to RSVP to get a headcount for dinner and drinks! December is going to be a good one! [Click here for photos!](#)

Climate and Diversity Committee News

Celebrating Caregivers!

November is a month of recognition and appreciation for those who are caregivers of the very young, the sick, disabled, or the elderly. Caregiver and support networks are critical. In addition to appreciating the [families of military](#), November is also a time for awareness of the destructive

effects of [Alzheimer's Disease](#) and of [Pancreatic Cancer](#). This month we give thanks for families and caregivers and hope to raise awareness of family caregiver issues. This year's theme is [#CaregiversConnect](#). You can read more about that from the United States Department of Veterans Affairs [Caregiver Support Program](#) and the [Caregiver Action Network](#) and you can read last year's [2022 Presidential Proclamation](#) for National Family Caregivers Month.

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).

Outreach



Phantasmagorical Physics Show

On Saturday, October 28th, the Physics department and Yale Pathways to Science hosted a public Haunted Hallway and Demonstration Show in Sloane Physics Laboratory with over 160 people attending. [Click here for photos.](#)

Exploring the Invisible Universe

Searching for Dark Matter at Yale's Wright Lab

A Community of Collaboration

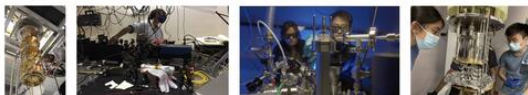


Postdoctoral Associates

Faculty

Students

Administration



Wright Lab Celebrates Dark Matter Day

Wright Lab hosted a zoom event attended by 71 high school students and their teachers from three local schools. Dark Matter Day, which began in 2017, is an annual celebration of the search for dark matter. Each year, laboratories around the world host Dark Matter Day events on or around October 31. [Click here for photos.](#)

COVID-19 Update

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

Opportunities

Faculty Opportunities

[Assistant Professor - Gravitational Waves \(Experiment or Observations\)](#) - UC Berkeley (deadline **November 8, 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 Professor Position in Experimental Particle Physics - New York University (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 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**)

Congressional Science Fellowships - American Physical Society (deadline **December 1, 2023**)

Postdoctoral Fellows in the Center for Cosmology and AstroParticle Physics (CCAPP) - Ohio State University (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

Postdoctoral Research Position in Experimental Neutrino Physics - University of Pittsburgh

Graduate Student Opportunities

Paid Graduate Student Fellowship Opportunity for Summer 2024 - Sandia National Laboratory (deadline **November 24, 2023**)

PhD position in gravitational wave probes of particle dark matter - University of Amsterdam (deadline **December 1, 2023**)

Congressional Science Fellowships - American Physical Society (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

Undergraduate School on Experimental Quantum Information Processing - University of Waterloo (deadline **January 2, 2024**)

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

Research Experience for Undergraduates - The Center for Neutrino Physics, Virginia Tech (application cycle **December 1, 2023-February 1, 2024**)

Undergraduate Research - Yale School of Medicine

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.

Gravitational Wave Symposium - Yale University, November 20-21, 2023. The primary objective of this symposium is to foster in-depth discussions regarding our recent suite of papers, exchange insights, and discuss the course for future directions in our research. The symposium will serve as a platform for researchers, scientists, and enthusiasts to connect, learn, and share their knowledge.

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. The Mechanical

Systems in the Quantum Regime GRS provides a unique forum for young doctoral and post-doctoral researchers to present their work, discuss new methods, cutting edge ideas, and pre-published data, as well as to build collaborative relationships with their peers. Experienced mentors and trainee moderators will facilitate active participation in scientific discussion to allow all attendees to be engaged participants rather than spectators. Applications for this meeting must be submitted by **February 3, 2024**. Any applicants who wish to be considered for an oral presentation should submit their application by **November 26, 2023**.

[Gordon Research Conference](#): Mechanical Systems in the Quantum Regime, March 3-8, 2024 - Ventura, CA. The Mechanical Systems in the Quantum Regime GRC is a premier, international scientific conference focused on advancing the frontiers of science through the presentation of cutting-edge and unpublished research, prioritizing time for discussion after each talk and fostering informal interactions among scientists of all career stages. Applications for this meeting must be submitted by **February 4, 2024**.

[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 in mid-November 2023.

[American Physical Society April Meeting 2024](#), April 3-6, 2024 - Sacramento, CA. The American Physical Society's April Meeting 2024: Quarks to Cosmos is a scientific research conference convening physicists and students from around the world to connect and collaborate across academia, industry, and major labs. The meeting encompasses a broad range of physics spanning astrophysics, particle physics, nuclear physics, and gravitation. Join us in 2024 for the exciting program theme "New Challenges and Questions for the Micro and Macro Universe". [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.



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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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