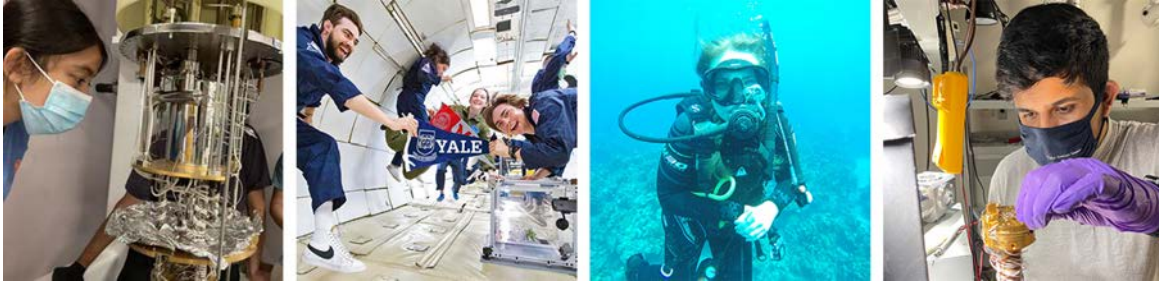


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# Yale Physics



**Friday, March 31, 2023**

## Events

### Monday, April 3

- 10:30 am **Physics Dissertation Defense:** *Bootstrapping Fermionic Conformal Field Theories*, Rajeev Erramilli, Yale University, WL 216. Thesis Advisor: David Poland.
- 3:30 pm **Physics Club:** *The rich landscape of intertwined electronic phases in quantum materials*, Rafael Fernandes, University of Minnesota, SPL 57. Host: Eduardo da Silva Neto. Coffee and light snacks before the talk.
- 4:00 pm **Molecular Biophysics & Biochemistry/Molecular, Cellular and Developmental Biology Seminar:** *Rewiring Cell Division*, Iain Cheeseman, MIT, Bass 305. Host: Elizabeth Black.
- 5:30 pm **History and Foundations of Physics Meeting 2.2:** *The Meaning of Probability*, 46HH 104. Host: Yarone Tokayer.

### Tuesday, April 4

- 12:00 pm **Wright Lab - Special Seminar:** *Evidence-Based Inclusive Mentoring Practices*, Shelly Leshner, University of Wisconsin, La Crosse, WL 216. Host: Karsten Heeger.
- 4:00 pm **High Energy Particle Theory Seminar:** *CFT Statistics, Euclidean Wormholes, and Holographic Codes*, Tom Hartman, Cornell University, SPL 51. Host: Yuan Xin.

### Wednesday, April 5

- 11:00 am **Physics & QBio Hageromo Hour:** *How biology breaks the rules: the nonequilibrium laws of sensitivity*, Jeremy Owen, MIT, Bass 405. Hosts: Michael Abbott, Isabella Graf, and Mason Rouches.
- 1:00 pm **Solid State & Optics Seminar:** *Natural Superlattice Design of Quantum Materials*, Joseph G. Checkelsky, MIT, ML 107 + zoom (password: 280589). Host: Yu He.

- 4:00 pm **Molecular, Cellular and Developmental Biology Seminar:** *Reimagining Druggability using Chemoproteomic Platforms*, Daniel Nomura, University of California, Berkeley, Bass 305. Host: Stavroula Hatzios.
- 4:00 pm **Earth & Planetary Science Colloquium:** *Title To Be Announced*, Morgan O'Neill, Stanford University, KGL 123.
- 4:15 pm **Department of Mathematics Colloquium:** *Moduli spaces in tropical geometry*, Melody Chan, Brown University, LOM 214.

## Thursday, April 6

- 11:30 am **Yale Quantum Institute Talk:** *Realization of modular quantum computers via parametric interactions*, Chao Zhou, University of Pittsburgh, YQI Seminar Room.
- 1:00 pm **Condensed Matter Theory Seminar:** *Quantum Hall Effect for Fractons*, Yizhi You, Northeastern University, SPL 51. Host: Meng Cheng.
- 1:00 pm **Wright Lab - NPA Seminar:** *Neutrinoless Double Beta Decay and the SNO+ Experiment*, Tereza Kroupová, University of Pennsylvania, WL 216.
- 4:00 pm **Molecular Biophysics & Biochemistry Special Seminar:** *The Membrane Phase Transition Drives Responsive Assembly of Signaling Domains at the Plasma Membrane*, Sarah Veatch, University of Michigan, Bass 305. Host: Schlieker.
- 4:15 pm **1st Annual Genomics & Society Seminar:** *A Conversation with Jennifer Raff*, University of Kansas, Yale Medical History Library.
- 4:30 pm **The Franke Program in Science and the Humanities:** *Nature and Artifice: Korean Munbangdo Painting*, Eleanor Soo-ah Hyun, Metropolitan Museum of Art, HQ 276. For more information on the series contact [John Hoffmeyer](#) or [Taylor Yoonji Kang](#).

## Friday, April 7

- All day **Good Friday:** Staff holiday
- 9:30 am **Physics Dissertation Defense:** *First measurement of neutral current neutral pion production differential cross sections on argon*, Giacomo Scanavini, Yale University, WL 216. Thesis advisors: Bonnie Fleming & Karsten Heeger.
- 11:00 am **Wright Lab - Elusives Journal Club:** *Dark Matter Direct Detection with Quantum Dots*, Eleanor Graham, Yale University, WLC 245. [Click here for paper.](#)

## Saturday, April 8

- 10:00 am (CST) **The Cosmic Microwave Background Stage-4 (CMB-S4) Saturday Space Science Series:** *Virtual Lecture Series for High School Students*, Contact [Juliet Crowell](#) for further information.
- 10:00 am **Science on Saturdays:** *How We Use Science to Protect People from Epidemics*, Dr. Albert Ko, Yale School of Public Health, Sterling Chemistry Lab. Host: Kurt Zilm. Contact [Maria Parente](#) for further information.

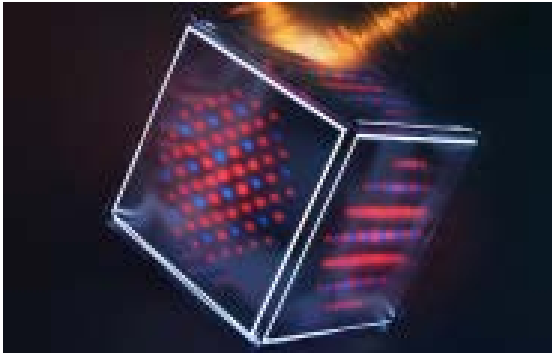
[More events](#)

## News



## Newburgh Group develops testbed radio telescope at Wright Lab

Members of Laura Newburgh's research group have been developing a radio telescope that they can use as a testbed for instruments, technologies, and measurement techniques they are developing to calibrate telescopes at observatories around the world.



## Michel Devoret, "Doubling a Qubit's Life, Researchers Prove a Key Theory of Quantum Physics"

Researchers at Yale have for the first time, using a process known as quantum error correction, substantially extended the lifetime of a quantum bit — a long-sought-after goal and one of the trickiest challenges in the field of quantum physics.

[More news](#)

## Community



### Welcome Samantha Turner

Samantha Turner is a senior administrative assistant at Wright Lab helping with events and social media posting. In her words, "I am originally from Connecticut, but I moved to Florida in high school with my family. When the pandemic began, I found myself making the trek back up north to be closer to my extended family. I am a recent graduate with a degree in Int'l and Global Studies and minor in Intelligence and National Security. In my free time I thoroughly enjoy staying up to date on vital global issues, research topics, and events. Apart from academic ventures, being active outdoors and learning new crafts have always piqued my interest."

### Climate and Diversity Committee News

April is a good time to think about sustainability and the environment. The [Yale Farm](#) has started its Spring Workday Hours. From their website,

We are pleased to welcome visitors to the Yale Farm for Friday and Sunday workdays and farm tours. Workdays run while Yale College classes are in session,

with some exceptions. To be notified about workday schedules and stay up-to-date on Yale Farm event opportunities, [please subscribe to our newsletter](#) and follow us on [Instagram](#). You may drop by for any length of time during the workday. RSVPs are not required.

**Friday workdays run from 2:00 PM – 4:00 PM**, followed by [knead 2 know](#). The first Friday workday of the Spring semester is Friday, March 31st.

**Sunday workdays run from 1:00 PM – 4:00 PM**, beginning on Sunday, April 2nd.

**In accordance with Yale University's policies, COVID-19 vaccination (including booster, if eligible) is required for visitors five and older.** You may be asked to present proof of vaccination. Updates on Yale's policies regarding COVID-19 [can be found 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)*

## Outreach / Community News / Social media



### Open Labs

Open Labs is a graduate student-led outreach group whose goal is to inspire a love of science in children within the New Haven community and beyond. They organize programs such as Science Cafe and create hands-on demos to bring to local schools and events. Graduate Student Ben Siegel is co-chair of Open Labs and is responsible for demos. "I have enjoyed seeing people's faces light up when shown the magical and beautiful things you can do with simple science concepts," said Ben.

### COVID-19 update

Yale COVID-19 Information - [click here](#) for updated information.

## Opportunities

### Faculty Positions

[Asst./Assoc./Full Professor in Experimental Quantum Science](#) - Yale University

[Associate/Full Professor, Experimental Atomic, Molecular, and Optical Physics](#) - Yale University

[Assistant Professor in Biological Physics](#) - Yale University

[Assistant Professor in Experimental Nuclear Physics](#) - Yale University

[Assistant Professor in Astrophysics & Cosmology](#) - Yale University

[Assistant Professor, Applied Physics \(Quantum Information Theory\)](#) - Yale University

[Assistant Professor, Applied Physics \(Experimental Condensed Matter Physics/Materials Science\)](#) - Yale University

[Faculty and Associate Faculty Positions](#) - Perimeter Institute

[Associate Professor Position in Particle Astrophysics, Cosmology, and Gravitational Waves](#) - University of California, Riverside (application open through **June 30, 2023**, anticipated start date of July 1, 2023)

[Assistant Professor Position in Experimental Quantum Information Science](#) - NYU (anticipated start date of **Sept. 1, 2023**)

## Research Scientist Positions

[Research Scientists \(CHORD radio telescope\) 5 Year Term](#) - Perimeter Institute

## Postdoctoral Positions

[Postdoctoral Associate Position in Theoretical Physics](#) - Yale University

## Graduate Student and Postdoc Research

[Dudley Observatory Astronomer](#) - Siena College

[Positions for postdocs and graduate students affected by the war in Ukraine](#) - Perimeter Institute

[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))

## Undergraduate Research

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))

[Physics REU: Interactions of Matter, Light & Learning](#) - Kansas State University (applications open December 2022, program dates May 29-August 4, 2023)

## Meetings, Schools, Workshops, and Conferences

[3rd Biennial NSF/GPAP Summer School on Plasma Physics for Astrophysicists](#), May 29-June 2, 2023 - Swarthmore College (deadline **April 1, 2023**)

[Summer School in Statistics for Astronomers XVIII](#), June 5-9, 2023 - Penn State (deadline **May 5, 2023**)

[Conference: Statistical Challenges in Modern Astronomy VIII](#), June 12-16, 2023 - Penn State (registration deadline **May 5, 2023**)

[STAQ Quantum Ideas Summer School](#), June 9-23, 2023 - Duke University

[The 3rd Condensed Matter Summer School, "Dynamics and Quantum Information in Many-body Systems"](#), June 12-21, 2023 - University of Minnesota-William I. Fine Theoretical Physics Institute. *Note: Michel Devoret is one of the speakers.*

[Boulder School for Condensed Matter and Materials Physics, "Non-Equilibrium Quantum Physics"](#), July 3-28, 2023 - University of Colorado, Boulder. *Note: Steve Girvin is one of the lecturers.*

[Advanced Cyberinfrastructure Training for Modeling Physical Systems](#), June 14-July 7, 2023; Bootcamp June 14-16, 2023 - Rensselaer Summer Program (deadline **May 1, 2023**)

[Physics of Life - CPBF Summer School](#), June 19-30, 2023 - Princeton University (deadline **March 31, 2023**)

[2023 Summer School](#), June 25-July 15, 2023 - Wolfram (must be 18 or older by June 24, 2023 to apply)

[2023 SLAC Summer Institute](#) (SSI 2023), August 7-18, 2023 - Stanford University (

[2023 Dunlap Institute Summer School - Introduction to Astronomical Instrumentation](#), August 8-11, 2023 - University of Toronto

[XVIII International Conference on Topics in Astroparticle and Underground Physics 2023](#), August 28-September 1, 2023 - University of Vienna, [conference fees and registration](#) (early fee deadline **July 1, 2023**; full fee deadline **August 15, 2023**). *Note: David Moore is an invited speaker.*

[EXCESS23@TAUP](#), August 26, 2023 - University of Vienna

[Young Astronomers on Galactic Nuclei](#) - Istituto di Astrofisica Spaziale e Fisica Cosmica, October 18-20, 2023, [apply here](#) (application deadline **May 31, 2023**)

## Grants, Fellowships and Scholarships

### Graduate

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



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*For further information, or to contribute to the newsletter, please send email to [Daphne Klemme](#). Alumni can add/update their information by [clicking here](#).*

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