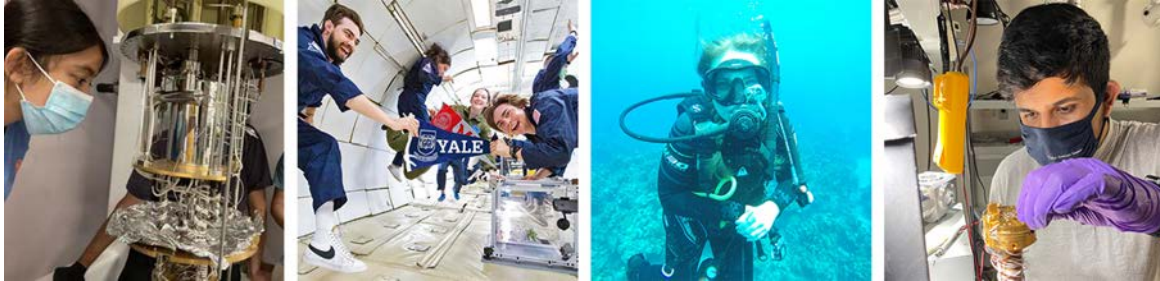


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# Yale Physics



**Friday, May 12, 2023**

## Events

**Monday, May 15**

3:30 pm **Book Launch:** *The Historical and Physical Foundations of Quantum Mechanics: A Brief Tour with Comments on the History of the Atomic Theory*, Steve Lamoreaux, Yale University, WL 216.

**Tuesday, May 16**

1:00 pm **Special Solid State & Optics Seminar:** *Arbitrary vector spatiotemporal beamshaping: simultaneous control of amplitude, phase and polarization at any delay*, Mickael Mounaix, The University of Queensland, Australia, BCT 227 + zoom (password: 771009). Host: Hui Cao.

3:00 pm **WIDG Seminar:** *Probing parton shower and hadronization with jet substructure measurements in pp collisions at STAR*, Youqi Song, Yale University, WL 216.

**Thursday, May 18**

9:00 am **Physics Dissertation Defense:** *A Diagrammatic Method to Compute the Effective Hamiltonian of Driven Nonlinear Oscillators*, Xu Xiao, Yale University, YQI Seminar room + zoom. Thesis Advisor: Michel Devoret.

11:00 am **Special Solid State & Optics Seminar:** *Generalizing physical bounds to (nearly) arbitrary biaffine equations*, Guillermo Angeris, Bain Capital, ML 107 + zoom (password: 909031). Host: Owen Miller.

1:00 pm **Condensed Matter Theory Seminar:** *Learning Global Charges from Local Measurements*, Romain Vasseur, UMass Amherst, SPL 51. Host: Meng Cheng.

**Friday, May 19**

All day **Department of Chemistry:** *8th Annual Yale Biophysics & Structural Biology Symposium*, Alumni Speaker: Martin Schmeing, McGill University, Marsh Lecture Hall. Host: Yong Xiong. [Register here](#).

[More events](#)

# News



## **Paul Tipton appointed Eugene Higgins Professor of Physics**

Paul Tipton, who has made critical contributions to some of the most significant scientific collaborations in the field of experimental particle physics, including the ATLAS experiment at the Large Hadron Collider (LHC) and the Collider Detector at Fermilab (CDF), was recently appointed the Eugene Higgins Professor of Physics, effective immediately.



## **Sohrab Ismail-Beigi named Strathcona Professor at SEAS**

Sohrab Ismail-Beigi, who has done pioneering work in the fields of theoretical physics and materials innovation, was recently appointed the Strathcona Professor of Applied Physics and professor of Physics and Mechanical Engineering & Materials Science, effective immediately.



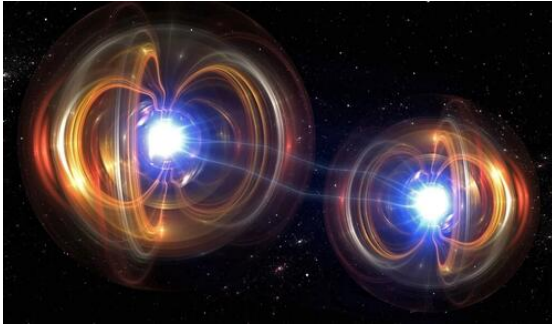
## **Three Yale Physics students win Prize Teaching Fellowships from the Yale Graduate School**

John Garmon, Matthew King, and Shivnag Sista received Prize Teaching Fellowships, recipients are nominated by their undergraduate students and the faculty members they assist while serving as Teaching Fellows.



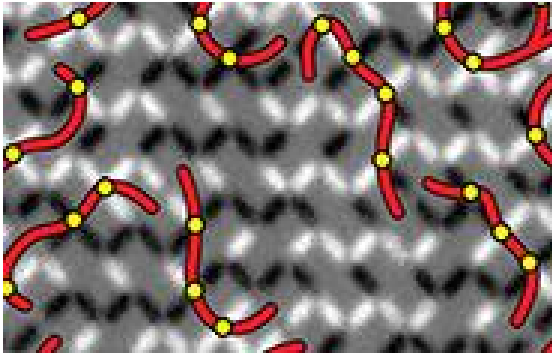
## **Kameron Duncan wins a Joseph Lintilhon Selden Memorial Award**

Kameron Duncan was awarded the Joseph Lintilhon Selden Memorial Award which is given each year to a member of the junior class of Yale College whose verve, idealism, and constructive interest in music and the humanities exemplify those qualities for which Selden is remembered.



## Physics faculty involved with Yale, UConn ‘quantum corridor’

Using a \$1 million federal grant, Yale and the University of Connecticut will develop a proposal for a national “engine” for quantum technology and jobs.



## Peter Schiffer, “Strings of Magnetic Energy shown to Flex, Wiggle, and Reconnect”

A multi-institutional team exploring the physics of collective behavior has developed and measured a model nanomagnetic array in which the behavior can be best understood as that of a set of wiggling strings.

[More news](#)

## Community

### Climate and Diversity Committee News

[Focus on Asian American and Pacific Islander Month](#), an online guide produced by Belonging at Yale, highlights groups, events, media, and other resources at Yale and beyond that explore AA/PI history and experiences.

*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



## 2023 New Haven Science Fair

Mentors for the New Haven Science Fair, to be held on Monday, May 15 this year, worked alongside local teachers to help students develop and complete science fair projects. Physics graduate student Caitlin Gish mentored a third-grade class weekly this semester. Her students explored the effect of hydrogen peroxide concentrations to create a foamy mixture called elephant toothpaste for their final project. "Working with these kids has been one of the most fulfilling parts of grad school so far. I worked hard to give them as much agency as possible so they could walk away feeling empowered to be scientists themselves," said Gish.

## COVID-19 update

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

# Opportunities

## Faculty Positions

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

[Summer Undergraduate Research Assistant Position in Data Science & Mathematical Biology](#) - Purdue University, Ft. Wayne, Interested candidates should submit: (i) an up-to-date CV/resume, (ii) two reference letters, and (iii) a letter of interest to Prof. Selvitella at [aselvite@pfw.edu](mailto:aselvite@pfw.edu) (application deadline May 15, 2023)

## Meetings, Schools, Workshops, and Conferences

[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.*

[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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