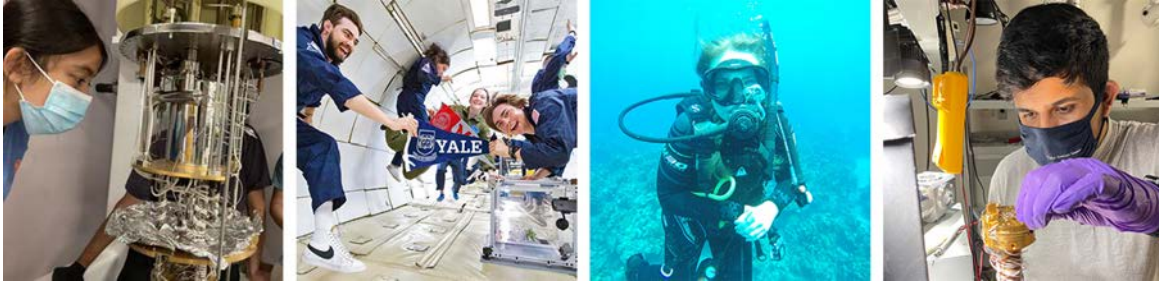


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# Yale Physics



**Friday, July 22, 2022**

## Events

**Tuesday, July 26**

- 9:00 am **Dissertation Defense:** *Rare Event Searches in Liquid Xenon with EXO-200 and nEXO*, Ako Jamil, Yale University, Wright Lab 216. Advisor: David C. Moore.
- 3:00 pm **WIDG Seminar:** *Multi-scale modeling of the effects of impurities in polycrystalline metallic systems*, Vas Fotopoulos, University College London, Wright Lab 216. Host: Giacomo Scanavini.

**Thursday, July 28**

- 1:00 pm **Electrical Engineering Seminar:** *Quantum Geometry for Optical Properties of Materials*, Dr. Junyeong Ahn, Harvard University, zoom .

[More events](#)

## News



### Bewersdorf named Cushing Professor

Joerg Bewersdorf, an international leader in the field of super-resolution microscopy, was recently appointed the Harvey and Kate Cushing Professor of Cell Biology, professor of biomedical engineering, and professor of physics, effective immediately.

### Welcome Graduate class of 2022!

We are pleased to welcome 27 new graduate



students to our department and are looking forward to welcoming them to campus in the fall.



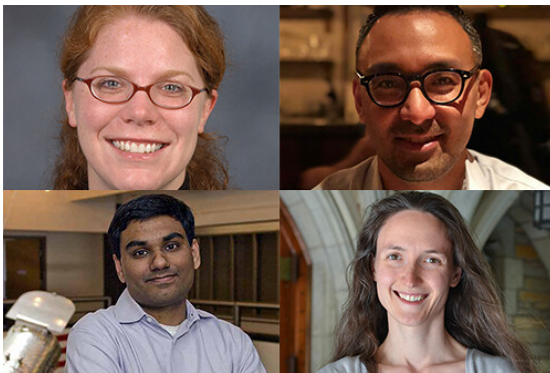
## **Benjamin Foust successfully defends thesis**

On June 29, 2022, Benjamin Foust successfully defended his thesis, “Precise Measurement of the U-235 Antineutrino Energy Spectrum” (advisor: Karsten Heeger).



## **Carleton Smith receives Wu Tsai Institute Fellowship**

We congratulate this year’s winner of the Wu Tsai Institute Fellowship: Carlton Smith. The WTI fellowship is offered to first-year graduate students interested in Cognitive Science and awards students with three years of stipend and additional financial support.



## **Physics Department announces new DGS and DUS**

Please welcome Daisuke Nagai as the new Director of Graduate Studies taking over for Bonnie Fleming who has capably guided us through many changes over the past several years. Also, welcome Sarah Demers as the Director of Undergraduate Studies who takes over for Nikhil Padmanabhan who has guided us through these difficult times over the past several years.



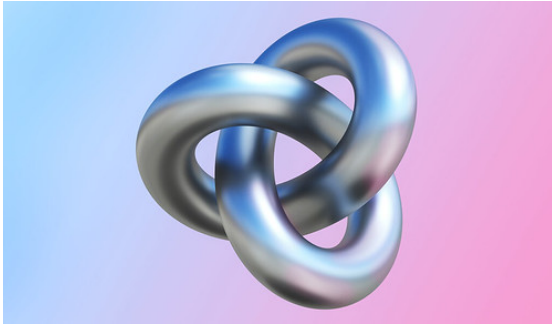
## **Knots in the resonator: elegant math in humble physics**

In a new study in the journal Nature, Jack Harris, Nicholas Read, and their co-authors describe a previously unknown characteristic of resonators. A resonator is any object that vibrates only at a specific set of frequencies. They are ubiquitous in sensors, electronics, musical instruments, and other devices,

where they are used to produce, amplify, or detect vibrations at specific frequencies.

[More news](#)

## Social Media highlights



### Featured post

Yale News story, "Knots in the resonator: elegant math in humble physics" featuring research by Jack Harris and Nicholas Read. Posted to [Facebook](#), [Twitter](#) and [Instagram](#).



### Featured post

The Yale Pathways to Science Summer Scholars visited Wright Lab for a tour and hands-on demonstrations. Posted on [Facebook](#), [Twitter](#) and [Instagram](#).

## Community

### Climate and Diversity Committee News

[Need statement for next week].

*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)*

### 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**

[Visiting Assistant Professor in Physics \(2 positions\)](#) - Illinois Wesleyan University

[Asst. Prof. in Experimental Particle Physics position](#) - UPenn

[Assistant Professor of Physics, Tenure track](#) - The College of Wooster

[Junior Faculty Search in Fundamental symmetries \(experiment\), broadly defined](#) - UC Berkeley

[Assistant Professor in Experimental Particle Physics](#) - University of Pennsylvania

[Physics Faculty Position](#) - CSU San Bernardino

[Full-Time Lecturer Position in Physics](#) - University of Massachusetts, Dartmouth College of Engineering

[Physics Clinical Assistant Professor Position](#) - NYU

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

[Assistant Professor in Biophysics](#) - University of North Texas in Denton

[Assistant Professor or Associate Professor in Photonics](#) - University of North Texas in Denton

[Assistant Professor in Energy](#) - University of North Texas in Denton

[Instructor, Lecturer, or Senior Lecturer of Physics](#) - South Dakota Mines

**Research Scientist Positions**

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

**Postdoctoral Positions**

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

[Product Development Engineer](#) - Hyperlight

[Integrated Photonics Research Scientist](#) - Hyperlight

[Postdoctoral Research Associate - Experimental Nuclear/Particle Physics](#) (multiple positions) @ UMass Amherst

[Air Force Science & Technology Fellowships](#) (rolling deadlines Feb 1, May 1, **Aug 1**, Nov 1)

**Lab Positions**

[Lab Director, Undergraduate Quantum Education Laboratory](#) - the University of Chicago

**Graduate Student and Postdoc Research**

[Experimental-Physics Education Specialist](#) - Scripps College

[Dudley Observatory Astronomer](#) - Siena College

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

**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))

[Spring 2022 Undergraduate Internships](#) - DOE Office of Science

## Scholarship Opportunities

[Laura Bassi Scholarship](#) - Editing Press (deadline **July 27, 2022** (Summer 2022))

## Graduate Student and Postdoc Schools, Workshops, and Conferences

[Quantum Gravity Around the Corner](#), October 3-7, 2022 - Perimeter Institute (registration to open shortly)



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