

# Yale Physics



**September 17, 2021**

## Events

### Monday, September 20

- 4:00 pm **Physics Club:** *Yale Energy Sciences Institute*, Gary Brudvig, Yale University, zoom, password 008008. Host: Eduardo da Silva Neto.
- 4:00 pm **Molecular Biophysics & Biochemistry Seminar:** *Cryo-ET analysis of yeast nuclei in situ*, Lu Gan, National University of Singapore, zoom 99149768814.

### Tuesday, September 21

- 12:00 pm **WIDG Seminar:** *Radius-dependent Measurements of Jet Suppression in Heavy-ion Collisions with ALICE*, Hannah Bossi, Yale University, zoom, password 469182. Host: Tong Liu.

### Wednesday, September 22

- 11:00 am **Yale Quantum Institute Event:** *C2QA Quantum Career Fair*, The C2QA Quantum Career Fair aims to bring more awareness to the undergraduate, graduate, and post-doc communities about the U.S. Department of Energy Office of Science's National Quantum Information Science (QIS) Research Centers and the different types of careers in QIS at the Centers, national laboratories, academia, and industry. [Learn more and register here](#).
- 2:30 pm **Mechanical Engineering & Materials Science Seminar:** *The materials science of sustainable metallurgy*, Dierk Raabe, Max Planck Institute, contact department for zoom information.
- 3:30 pm **Earth & Planetary Sciences Colloquium:** *Education, outreach, mentoring, diversity: a path through academia to public service*, Eleanour Snow, USGS, contact department for zoom information.
- 4:15 pm **Mathematics Colloquium:** *Spectral description of non-commutative character varieties*, Alexander Goncharov, Yale University, contact department for zoom information.

### Thursday, September 23

- 10:30am **Wright Lab Event:** *EHS Orientation for Wright Lab Shop Users - Fall 2021*, 1-hour Environmental Health and Safety (EHS) Shop Orientation. [Register here](#).

- 1:00 pm **NPA Seminar:** *Toward Detection of UHE Neutrinos with the Radar Echo Telescope*, Steven Prohira, Ohio State University, [zoom](#), password 441777. Host: Jorge Torres
- 2:30 pm **Astronomy Colloquium:** *Title to be announced*, Arke Banerjee, Fermilab, contact department for zoom information.

## Friday, September 24

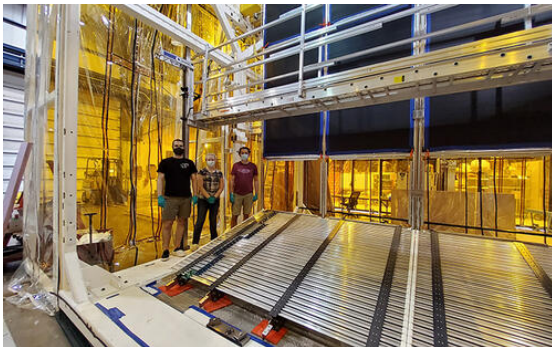
- 9:00 am **Physics Dissertation Defense:** *Probing the Upper Limits to Light–Matter Interactions: from Spontaneous Emission to Superresolution*, Andrew Shim, Yale University, [zoom 976 7628 1536](#). Thesis Advisor: Owen Miller.
- 12:00 pm **Physics+Astro Event on Belonging:** *The nature of belonging within STEM academic departments*, Special event on the nature of belonging within STEM academic departments. [Register here](#) by Friday, September 17, 2021.
- 3:00 pm **The Franke Program in Science and the Humanities: Inference Project Talk:** *Causation from the Point of View of Physics*, Jenann Ismael, Columbia University, [Click here to register](#).

## Saturday, September 25

- 3:00 pm **The Franke Program in Science and the Humanities: Inference Project Moderated Conversation:** *Causation from the Point of View of Physics*, James Woodward, University of Pittsburgh, [Click here to register](#).

[More events](#)

## News



### Fleming group installs SBND Field Cage at Fermilab

Yale Physics's associate research scientist Domenico Franco and graduate students Giacomo Scanavini and Angela White from Bonnie Fleming's Yale High-Energy Neutrino Physics group successfully mounted the Bottom Field Cage of the Short Baseline Near Detector (SBND) Time Projection Chamber (TPC) at Fermilab.



### Office Hours with... Eduardo da Silva Neto

Eduardo da Silva Neto, Assistant professor of physics, was featured in Yale News "Office Hours with..." on September 16, 2021.

### Welcome Tyler Ellison (Yale Prize Postdoctoral Fellow)

Welcome to Tyler Ellison who comes to us as a Postdoctoral Prize Fellow in Theoretical



Condensed Matter Physics. Ellison will be working with Meng Cheng.



## Welcome Justin Lane (Mossman Fellow)

Welcome to Justin Lane who comes to us as a Mossman Fellow working in the Atomic Physics Group with Jack Harris. His research at Yale is focused on studying the dynamics of non-Hermitian systems near higher-order exceptional points. These systems are created and manipulated in the lab using several coupled mechanical modes of a “membrane-in-the-middle” cavity optomechanics setup.

[More news](#)

## Community

### Climate and Diversity Committee News

Take a look at coming events of interest: [Yale Physics+Astro Event on Belonging](#) (Sept. 24) and [Caltech's Future Ignited](#) (Oct. 2). Let us know about any other inclusive events.

*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

Please check [Yale COVID-19 Statistics](#) for current statistics. The current COVID-19 Alert Level is Yellow (see the site for an explanation).

[Yale COVID-19 Site](#)  
[COVID-19 Workplace Guidance website](#)  
[Yale College COVID-19 Announcements and FAQs](#)  
[Yale Physics COVID-19 site](#)

## Opportunities

### Faculty positions

[Faculty and Associate Faculty Positions](#) - Perimeter Institute (no deadline)

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

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

[Assistant Professor in Soft Condensed Matter Physics](#) - UC Berkeley (Deadline Oct. 26, 2021)

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

[Teaching in Yale Summer Session 2022](#) - Yale University (Deadline Oct. 11, 2021)

## Postdoctoral positions

[Yale Postdoctoral Fellowship in Quantum Information Theory](#) - Yale University (Deadline Feb. 1, 2022)

[University of Chicago Fellowship Opportunities:](#)

- Grainger Fellowship in Experimental Physics - all fields ([Webpage](#): Deadline Oct. 15, 2021)
- Biological Physics Fellowship in Biological Physics ([Webpage](#): Deadline Oct. 15, 2021)
- Quantum Fellowship in Quantum Science ([Webpage](#): Deadline Oct. 15, 2021)
- Kadanoff-Rice Fellowship in Materials Science ([Webpage](#): Deadline Oct. 15, 2021)
- Kadanoff Fellowship in Theoretical Physics ([Webpage](#): Deadline Nov. 15, 2021)
- KICP Fellowship in Cosmological Physics ([Webpage](#): Deadline Nov. 15, 2021)
- Fermi, McCormick, Oehme Fellowship in Particle Physics, Astro Physics & Astronomy ([Webpage](#): Deadline Nov. 7, 2021)

[Dicke Fellowship in Experimental Physics](#) (Deadline Oct. 22, 2021) - Princeton University

[Air Force Science & Technology Fellowships](#) (Rolling deadlines Feb 1, May 1, August 1, November 1)

Postdoctoral Research Associate in Neutrino Physics: Two ways to apply [1] [Inspire](#) or [2] [BNL-jobs](#) - BNL

## Graduate student and Postdoc Research

[Graduate Student Research \(SCGSR\) Awards](#) (Deadline November 10, 2021) - DOE Office of Science

## Undergraduate Research

Research Assistant - Yale School of Medicine (contact [Navin Kumar](#) for further information)

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

[2nd Annual FUTURE Ignited program](#), a one-day virtual conference on October 2 for Junior or Senior students of color,\* in a STEM field at Caltech

## Grant Opportunities

[Space Grant Opportunities: Faculty RFP](#) and [Student RFP](#) (deadline Oct. 15, 2021) - CT Space Grant Consortium

## Fellowship Opportunities

Science Policy Fellowships: [State Department Fellowship](#) (deadline Oct. 15, 2021) and [Congressional Fellowship](#) (deadline Dec. 1, 2021) - AIP



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*For further information, or to contribute to the newsletter, please send email to [Daphne Klemme](#).*

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