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# Yale Physics



**Friday, December 10, 2021**

## Events

**Friday, December 10 - Thursday, December 16 @ 5:00 pm**

All day      Reading period

**Monday, December 13**

- 10:00 am      **PHYS 469/PHYS 471 Final Reports: *Undergraduate Research Presentations*, zoom.** Host: Charlie Baltay.
- 10:25 am      **Mechanical Engineering & Materials Science Seminar: *From data to knowledge in disorder ceramics for ultra-high-temperature applications***, Stefano Curtarolo, Duke University, contact department for zoom information.
- 11:00 am      **Yale Systems Biology Institute Special Seminar: *Living Droplets Get to Work***, Eric Dufresne, ETH Zürich, zoom, passcode: 992664.
- 2:00 pm      **PHYS 469/PHYS 471 Final Reports: *Undergraduate Research Presentations*, zoom.** Host: Charlie Baltay.
- 4:00 pm      **Molecular Biophysics & Biochemistry Seminar: *"Dark matter" of the genome comes to light***, Jennifer Gerton, Stowers Institute for Medical Research, zoom. Host: Susan Baserga.

**Tuesday, December 14**

- 10:00 am      **PHYS 469/PHYS 471 Final Reports: *Undergraduate Research Presentations*, zoom.** Host: Charlie Baltay.
- 12:00 pm      **WIDG Seminar: *Extraction of an Inclusive Muon Neutrino Charged Current Differential Cross Section at MicroBooNE***, London Cooper-Troendle, Yale University, zoom, passcode: 469182. RSVP here for in-person attendance. Host: Giacomo Scanavini.
- 2:00 pm      **PHYS 469/PHYS 471 Final Reports: *Undergraduate Research Presentations*, zoom.** Host: Charlie Baltay.
- 3:30 pm      **Particle Theory Seminar: *Bootstrapping holographic defect correlators***, Pedro Liendo, DESY, contact department for zoom information.

**Wednesday, December 15**

- 10:00 am **PHYS 469/PHYS 471 Final Reports: *Undergraduate Research Presentations***, zoom. Host: Charlie Baltay.
- 4:00 pm **Molecular, Cellular and Developmental Biology Seminar: *How do plants budget carbon? Can we expect a simple solution in a wild world?***, Mark Stitt, Max Planck Institute of Molecular Plant Physiology, zoom. Host: Josh Gendron.
- 4:00 pm **Mathematics Colloquium: *L-functions, functoriality, and quantization***, Yiannis Sakellaridis, Johns Hopkins, contact department for zoom information.

## Thursday, December 16

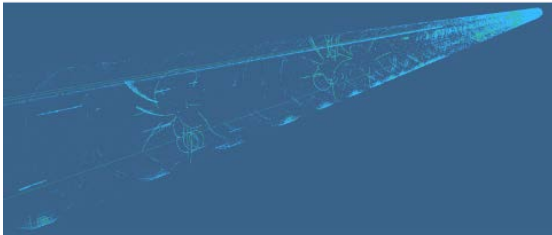
- 11:00 am **Yale Quantum Institute Talk: *High Coherence Fluxonium and its Two-qubit Gate Scheme***, Haonan Xiong, University of Maryland, Livestream the talk on zoom here (Yale sign in required).

## Friday, December 17

- 12:00 pm **Yale Quantum Institute Colloquium: *Robust preparation of Wigner-negative states with optimized SNAP-displacement sequences***, Simone Gasparinetti, Chalmers University of Technology, Livestream the talk on zoom here (Yale sign in required).

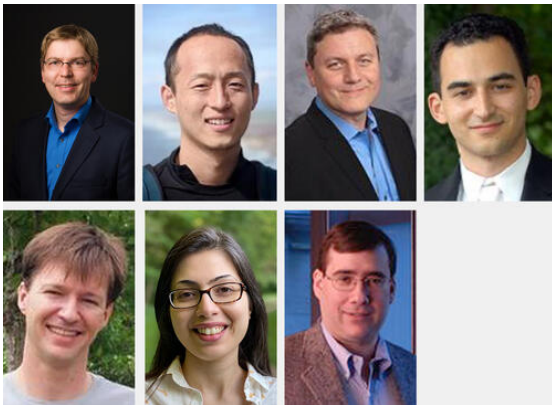
[More events](#)

## News



### ALICE first collision data demonstrates success of Wright Lab detector upgrade

The Relativistic Heavy Ion Group (RHIG), led by professor Helen Caines and D. Allan Bromley Professor Emeritus John Harris, has been taking advantage of the extended 3-year shutdown of the Large Hadron Collider (LHC) to contribute to the upgrade of one of the LHC's detectors, called A Large Ion Collider Experiment (ALICE).



### Welcome new Secondary Appointments

2021 has been a busy year in the physics department and we welcome several new faculty colleagues with secondary appointments in the areas of Atomic, Molecular & Optical Physics; Biophysics; Condensed Matter Physics; Particle Physics; and Quantum Physics.

### Charles Ahn group unlocks some clues about superconductivity

Charles Ahn, John C. Malone Professor of Applied Physics, and his group's research



The Canadian Light Source, which houses the Quantum Materials Spectroscopy Centre.  
(Canadian Light Source, Inc.)

was recently covered in the Yale School of Engineering & Applied Science News, December 3, 2021 "A Material Reveals Clues About Superconductivity".

[More news](#)

## Community

### Climate and Diversity Committee News

While you are busy studying for your exams, or preparing for the end of the year, don't forget to take a little time for yourself and find time to relax - take a walk, read a book, play a game, whatever it takes - it will keep you fresh.

*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  
Yale COVID-19 Statistics  
COVID-19 Workplace Guidance  
Yale College COVID-19 Announcements and FAQs  
Yale Physics COVID-19 site  
Current COVID-19 status is Yellow

## Opportunities

### Faculty positions

[Tenure-track faculty position in theoretical particle physics](#) - Perimeter Institute (Deadline Dec. 17, 2021 or until filled)

[Tenure-Track Position in Experimental Soft Matter and Biological Physics](#) - Brown University (deadline Dec. 31, 2021)

[Assistant Professor of Physics](#) at Le Moyne College (Deadline Dec. 31, 2021)

[Tenure-track assistant professor position](#) - Princeton University (Deadline Dec. 31, 2021)

[Physical Sciences Assistant Professorships: Diversity and Inclusion](#) - Brown University (Deadline Jan. 7, 2022)

[Two Faculty Positions in Quantum Materials](#) - The University of Tennessee Knoxville (Deadline Jan. 10, 2022)

[Assistant Professor, Physics Department](#) - Drexel University (Deadline Jan. 31, 2022)

[Professor in Particle Physics Instrumentation](#) (Job Ref 52902) - University of Birmingham (Deadline Jan. 31, 2022)

[Assistant Professor](#) or [Associate Professor](#)

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

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

[Physics Faculty Postion](#) - CSU San Bernardino (Deadline until filled)

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

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

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

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

## **Postdoctoral positions**

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

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

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

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

[Product Development Engineer](#) - Hyperlight (no deadline)

[Integrated Photonics Research Scientist](#) - Hyperlight (no deadline)

## **Graduate student and Postdoc Research**

[Perimeter Scholars program](#) - Perimeter Institute (Deadline Feb. 1, 2022 for final consideration)

[Experimental-Physics Education Specialist](#) - Scripps College (no deadline)

## **Undergraduate Research**

[Undergraduate School on Experimental Quantum Information Processing](#) (two-week introduction) or [Undergraduate Research award](#) (all summer)- The University of Waterloo (Deadline Jan 4, 2022)

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

## Grant Opportunities

[Seed Grant Opportunity](#) - Yale Women Faculty Forum (deadline Feb. 15)

[Perimeter Scholars International - Students' Training Accelerator for Research in Theory](#) (PSI START) - Perimeter Institute (Deadline Jan. 17, 2022)

[Research Grants](#) - OPRA Association for Advancement of Research in Nuclear & Particle Physics (Deadline Apr. 14, 2022)

## Fellowship Opportunities

[DOE Computational Science Graduate Fellowship](#) - Department of Energy (Deadline Jan. 12, 2022)



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

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