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Yale Physics



Friday, October 22, 2021

Events

Monday, October 25

- 4:00 pm **Nuclear Particle Astrophysics Seminar:** *First Test of the MiniBooNE Low Energy Excess Under a Single-Photon Hypothesis in the MicroBooNE Experiment*, Lee Hagaman & Giacomo Scanavini, Yale University, [zoom](#), password 441777
- 4:00 pm **Molecular Biophysics & Biochemistry Thomas A. Steitz Lecture:** *Dynamics of translation*, Jody Puglisi, Stanford University, Marsh Lecture Hall & [zoom](#). Host: Dieter Soll.

Tuesday, October 26

- 10:30 am **Yale Quantum Institute Talk:** *Predicting many properties of quantum systems with chaotic dynamics*, Hong-Ye Hu, University of California San Diego, [zoom](#). Host: Shruti Puri.
- 12:00 pm **WIDG Seminar:** *Tuning into neutrinos on the radio with the Askaryan Radio Array*, Jorge Torres, Yale University, [zoom](#). Host: Arina Telles.
- 1:00 pm **Dissertation Defense:** *The tidal evolution of dark matter substructure and the significance of halo-to-halo assembly history variance*, Sheridan Green, Yale University, [zoom](#). Thesis Advisor: Frank van den Bosch.
- 5:00 pm **Yale Quantum Institute Public Talk:** *The Many Worlds of Quantum Mechanics*, Sean Carroll, Caltech, [Register here to attend in person in YQI Seminar Room](#) (Yale only - limited to 70 people) or [Register here to receive the link to stream the event](#).

Wednesday, October 27

- 1:00 pm **Special Solid State & Optics Seminar:** *Unconventional charge order and superconductivity in kagome materials*, Jia-Xin Yin, Princeton University, [zoom](#). Host: Yu He.
- 1:30 pm **Wright Lab Computing Workshop:** *Data Analysis with Python*, Thomas Langford, Yale University, [RSVP](#).
- 2:30 PM **Mechanical Engineering and Materials Science Seminar:** *Fun explorations*

in the design space of refractory high-entropy alloys, Cem Tasan, MIT.

- 3:30 pm **Earth & Planetary Sciences Colloquium:** *Title TBA*, Lijun Liu, University of Illinois Urbana-Champaign, contact department for further information.
- 4:00 pm **Molecular, Cellular and Developmental Biology Seminar:** *Nuclear mechanics and dynamics: lessons from yeast to mice*, Megan King, Yale School of Medicine, [zoom](#). Host: Vivian Irish.
- 4:00 pm **Department of Chemistry Seminar:** *Electrocatalysis for Energy Storage and Environmental Remediation: A Journey toward Sustainability*, Hailiang Wang, Yale University, [SCL 160 \(Streaming by Panopto\)](#).
- 4:15 pm **Department of Mathematics Colloquium:** *Mean curvature and variational theory*, Xin Zhou, Cornell University, contact department for zoom information.
- 8:00 pm **Graduate School of Arts & Sciences Perspectives:** *Conversations with Alumni*, Charles D. Brown II, University of California Berkeley. Received Ph.D. from Yale in 2019 (Thesis advisor: Jack Harris).

Thursday, October 28

- 1:00 pm **Condensed Matter Theory Seminar:** *The entanglement membrane in chaotic many-body systems*, Tianci Zhou, MIT, [zoom](#).
- 1:00 pm **Nuclear Particle Astrophysics Seminar:** *Wielding the Quantum Correlations in advanced LIGO*, Lee McCuller, MIT, [zoom](#), password 441777.
- 2:30 pm **Yale Astronomy Virtual Colloquium:** *Title TBA*, Erin Kado-Fong, Princeton University, contact department for zoom information.

Friday, October 29

- 12:00 pm **Physics+Astro Event on Belonging:** *Creating Lasting Institutional Change*, This event will focus on on creating lasting institutional change. The goal of this second event is to continue the discussion and create a series of recommendations designed to increase the sense of belonging. Like the first event, this will also feature a short presentation and a lot of discussion, both as a large group and in smaller breakout groups. [RSVP by October 22nd](#).
- 12:00 pm **Yale Quantum Institute and Electrical Engineering Colloquium:** *The Best Reciprocal Resonators Make the Best Non-Reciprocal Systems*, Sunil Bhawe, Purdue University, [event will livestream here](#).
- 4:00 pm **Yale Quantum Institute How to Join the Quantum Workforce?:** *Prepare for Startups*, Mehdi Namazi (Qunnect), Iu-Wei Sze (Quantum Circuit Inc.), and Victor Padilla-Taylor (Tsai Center for Innovative Thinking at Yale), [Register here to receive the zoom link](#).

[More events](#)

News

Vanessa Lamar (YC'2023 Physics) makes use of Yale's West Campus

Yale undergraduates and a steady stream of trainees are experiencing the arts, sciences, and humanities all under one roof – and all in the creative space of tailored summer



research projects - at Yale's Institute for the Preservation of Cultural Heritage (IPCH).



Irem Altan selected as a “Rising Star in Soft and Biological Matter” at the University of Chicago

Irem Altan presented a talk, “The Self-Assembly of Proteinaceous Optical Devices in Squids”, at the Rising Stars in Soft and Biological Matter Symposium September 23-24, 2021.



Welcome Caitlin Hansen (Preceptor in Physics Laboratory Instruction and Management)

The physics department welcomes Caitlin Hansen to the new position of preceptor in physics laboratory instruction and management. Caitlin will be primarily responsible for managing the Physics 165/166 lab equipment and materials.



Jay Hyun Jo selected as a “Rising Star in Experimental Particle Physics” at the University of Chicago

Jay Hyun Jo presented a talk, “MicroBooNE: Searching for nu-Physics with LArTPC”, at the Rising Stars in Experimental Particle Physics Symposium September 22-23, 2021.

[More news](#)

Community

Climate and Diversity Committee News

The second annual #BlackInPhysics week is this Oct 24 - 30. #BlackInPhysics week is a week dedicated not only to celebrating Black physicists and their contributions to the scientific community, but also to reveal a more complete picture of what a physicist looks like. This year, the Week's theme is how to mitigate burnout to remain successful. Please check the [#BlackInPhysics website](#) for a list of 2021 events.

Related, Yale Physics alum Charles Brown, who is now at University of California Berkeley and is a co-founder of #BlackInPhysics, gave a talk at last Monday's Physics club on "Probe of Band Structure Singularities with a Lattice-Trapped Quantum Gas". A recording of the talk 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

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

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

[Assistant Professor Position in Quantum Condensed Matter and Atomic Molecular and Optical Physics](#) - NYU (Deadline Nov. 8, 2021)

[Assistant Professor of Theoretical Soft Condensed Matter Physics](#) - NYU (Deadline Nov. 8, 2021)

[Faculty Position in Experimental Particle Physics](#) - University of California, Davis (Deadline Nov. 15, 2021)

[Faculty Position in Experimental or Theoretical Physics](#) - Caltech (Deadline Nov. 15, 2021)

[Tenure-track faculty position for an Assistant Professor in Nuclear Astrophysics/Fundamental Symmetries Theory](#) - UC Berkley and Lawrence Berkeley National Laboratory (deadline Nov. 19, 2021)

[Faculty Opening in Astromaterials, Solar System, and Planetary System Formation](#) - Washington University in St. Louis (Deadline Nov. 24, 2021)

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

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

[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)

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

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

Postdoctoral positions

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

[University of Chicago Fellowship Opportunities](#):

- 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)

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

[Postdoctoral Research Positions](#) - Perimeter Institute (Deadline Nov 8, 2021)

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

Graduate student and Postdoc Research

[Wilson Fellowship](#) - Fermilab (Deadline Nov 19, 2021)

[CCAPP Postdoctoral Fellows](#) - Ohio State University (Deadline Nov 12, 2021)

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

[NASA Space Technology Graduate Research Fellowships](#) - National Aeronautics and Space Administration's (NASA) Space Technology Mission Directorate (STMD) (Deadline Nov 2, 2021)

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)
- Research Assistant – Data Analysis & Harm Reduction (send CV to Keyu Chen keyuchen2020@gmail.com)

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

Grant Opportunities

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

Fellowship Opportunities

Science Policy Fellowships: [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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