**Yale Physics**

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**Friday, January 28, 2022**

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**Events**

**Monday, January 31**

2:00 pm  
**Department of Mechanical Engineering and Materials Science Seminar:** *Imaging of Topological Textures and Their Order Parameters*, Yu-Tsun Shao, Cornell University,  
[zoom](#), passcode: 691549. Host: Diana Qiu.

4:00 pm  
**Physics Club:** *Quantum Field Theory and Beyond*, Nathan Seiberg, Institute for Advanced Study,  
[zoom](#), passcode: 863491. Host: David Poland.

**Wednesday, February 2**

3:30 pm  
**Department of Earth & Planetary Science Colloquium:** *Title TBA*, Diego Pol, CalTech, contact department for connection information.

**Thursday, February 3**

1:00 pm  
**Nuclear Particle Astrophysics Seminar:** *Advanced Critical Spin Dressing*, Chris Swank, CalTech,  
[zoom](#), passcode: 274644. Host: Mike Jewell.

2:30 pm  
**Yale Astronomy Virtual Colloquium:** *Title TBA*, David Martin, Ohio State University, contact department for connection information.

**Friday, February 4**

10:00 am CST  
**Exclusive student virtual program:** *Reflections on the 2022 Doomsday Clock: It is 100 seconds to midnight*, Bulletin of the Atomic Scientists; International Student/Young Pugwash; Kimball Smith Series, Yale University.  
[Register here](#).

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**News**

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**Benjamin Machta “Going with the**
A collaboration between the Erdem Karatekin and David Zenisek labs at Yale School of Medicine, and the Benjamin Machta lab in the Department of Physics, has discovered that cell membranes in fact flow at vastly different speeds, reflecting the distinct needs of different cell types. The work appears in the journal Science Advances.

Charles Brown quoted in Symmetry Magazine article “#BlackInQuantum”

Yale Physics Alum Charles Brown, Ph.D. 2019, currently serving as a postdoctoral associate at the University of California, Berkley, is quoted in the Symmetry Magazine article of January 27, 2022, “#BlackInQuantum”.

A Quantum Group for Everyone

Recent graduate Shantanu Jha, a Mathematics & Physics major, founded the Yale Undergraduate Quantum Computing (YuQC) group. Thinking of all the ways that quantum computing can be applied to other fields, Jha said he was inspired to engage a broad spectrum of other students with the emerging field.

Community

Climate and Diversity Committee News

Throughout the month of February, the Office of Diversity Equity and Inclusion at Yale School of Medicine presents the 1st Annual Black History Month Film Series. Join us each week for a virtual showing of a thought-provoking movie that addresses the Black experience in America. Films will be
shown on the Eventive platform, for a true virtual film screening experience, and will be followed by expert-led discussions on the themes raised in the films. The film series is open to the public. Click here to register.

*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*

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**From the desk of Kayleigh Bohemier**

*Cambridge University Press - New Option for Publishing Open Access* - Yale Library has signed a Read and Publish agreement with Cambridge University Press, which not only provides read access to Cambridge journals (400+ titles), but also waives OA publishing fees for Yale researchers. This works out to fee waivers for about 350 fully open access and hybrid journals. The agreement does not include open access books or fully-subscription journal titles. To use this option, a Yale author must be the corresponding author, inform the press of their Yale affiliation, and publish the article with a Creative Commons license. The current agreement expires at the end of 2024. See this link for more information about publishing open access at Cambridge University Press at [http://www.cambridge.org/core/services/authors/journals/publishing-open-access](http://www.cambridge.org/core/services/authors/journals/publishing-open-access).

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**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 orange

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**Opportunities**

**Faculty positions**

- [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 Position](#) - 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)

Assistant Professor in Biophysics - University of North Texas in Denton (no deadline)

Assistant Professor or Associate Professor in Photonics - University of North Texas in Denton (no deadline)

Assistant Professor in Energy - University of North Texas in Denton (no deadline)

Postdoctoral positions

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

McDonnell Center for the Space Sciences Postdoctoral Fellowship - Washington University in St. Louis (deadline Mar. 1, 2022)

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

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


Product Development Engineer - Hyperlight (no deadline)

Integrated Photonics Research Scientist - Hyperlight (no deadline)

Lab Positions

Lab Director, Undergraduate Quantum Education Laboratory - the University of Chicago (no deadline)

Graduate student and Postdoc Research

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

Bioinformatician - Stockholm University (Deadline Feb. 10, 2022)

Research Fellows 2022 - Ikerbasque - the Basque Foundation for Science

Experimental-Physics Education Specialist - Scripps College (no deadline)

Dudley Observatory Astronomer - Siena College (Deadline until filled)

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

Spring 2022 Undergraduate Internships - DOE Office of Science

Physics Research Positions for Undergraduate Physics Majors - University of Notre Dame (Deadline Feb. 21, 2022)
2022 Summer Undergraduate Research Fellowships in Sensor Science and Engineering - University of Maine (Deadline Feb. 28, 2022)

Grant Opportunities

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

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

Summer Schools

Undergraduate

Nuclear Nonproliferation, Safeguards, and Security (NNSS) Virtual Course - Brookhaven National Laboratory (Deadline Mar. 4, 2022)