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Yale Physics



Friday, October 28, 2022

Events

Saturday, October 29

1:00 pm **Department of Chemistry: *Charles A. Schmittenmaer Symposium***, Join the department in celebrating the life of our esteemed colleague Charlie with scientific talks from Matthew C. Beard, Senior Research Fellow I-Materials Science, National Renewable Energy Laboratory, and Keith A. Nelson, Haslam and Dewey Professor of Chemistry, MIT, and personal reminiscences from colleagues and friends. For those of you who are new to the department, you can learn about Professor Schmittenmaer through this [in memoriam](#) and [tribute video](#). Event in SCL 110.

Monday, October 31

4:00 pm **Physics Club: *Machine Learning for Fundamental Physics***, Benjamin Nachman, Lawrence Berkeley National Laboratory, SPL 57. Host: Ian Moulton. Refreshments served at 3:30pm.

4:00 pm **Department of Molecular Biophysics & Biochemistry Thomas A. Steitz Lecture: *RNA modifications and decoding***, Eric Westhof, University of Strasbourg, YSB Marsh Hall. Host: Dieter Söll. Refreshments served at 3:45 pm.

Tuesday, November 1

1:00 pm **Wu Tsai Institute Student-Postdoc Committee: *WTI Integrated Career Panel***, Stephen Strittmatter (Scientific Founder of Allyx Therapeutics) and Todd Constable (Director of MRI Research Electromagnetic Devices LLC), Brady Auditorium. [RSVP for zoom link](#).

4:30 pm **The Dwight H. Terry Lectureship 2022: *Constellations and Diffractions: Theological-Political-Scientific Fragments and the Materiality of Theorizing***, Karan Barad, University of California, Santa Cruz, HQ L02. Reception to follow.

6:00 pm **The Yale Biological and Biomedical Sciences Diversity and Inclusion Collective: *BBS E-Lecture Series***, Kristen Brennand, Yale University. [Register here](#).

Wednesday, November 2

- 2:30 pm **Mechanical Engineering and Materials Science Seminar:** *Theoretical spectroscopy of semiconductors from first principles – From plasmonics to defects*, Andre Schleife, University of Illinois, Urbana-Champaign, ML 107. Host: Diana Qiu.
- 4:00 pm **Department of Earth & Planetary Sciences Colloquium:** *Using silicon stable isotopes and trace elements to characterize water-rock interactions during silicate weathering from the mineral-fluid interface to the catchment-scale*, Nicole Fernandez, Cornell University, KGL 123.
- 5:00 pm **Yale Quantum Institute/Center for Collaborative Arts and Media/Terry Lectureship Nontechnical Talk:** *Spooky Objects*, Karen Barad, University of California, Santa Cruz, CCAM Leeds Studio. [Register in advance here.](#)

Thursday, November 3

- 1:00 pm **NPA Seminar:** *Lattice QCD*, Paolo Parotto, Penn State University, WL 216. Host: Fernando Flor.
- 2:30 pm **Yale Astronomy Colloquium:** *Characterization of Low-Mass Exoplanets with JWST*, Eliza Kempton, University of Maryland, WTS A-51.
- 3:30 pm **Microbiology Graduate Program Seminar:** *Observations of single Geobacter cells transferring electrons via cytochrome nanowires secreted by pili*, Nikhil Malvankar, Yale University, HOPE 216 + [zoom](#) (password: 359109). Host: Dr. Liu.
- 4:30 pm **The Dwight H. Terry Lectureship 2022:** *Nothing is Ever Lost to History: Traces of Erasure and the Materiality of Re-membering*, Karan Barad, University of California, Santa Cruz, HQ L02. Reception to follow.

Friday, November 4

- 11:00 am **Wright Lab Event:** *The Elusives Journal Club*, Members in the departments of physics and astronomy who work on dark matter and neutrino-related fields are invited to get together to discuss papers related to their field. Topics include: neutrinos, dark matter, BSM physics, fundamental symmetries, precision physics and more, WLC 245. Please email [Jorge Torres](#) for zoom connection information.
- 12:00 pm **Wright Lab Event:** *"Invisible Universe" film screening*, Emily Coates, Yale University, SPL 59.
- 12:00 pm **Yale Quantum Institute Colloquium:** *How to create and leverage many-body entanglement for near-term quantum networks and simulation*, Sophia Economou, Virginia Tech, YQI Seminar Room + [zoom](#). Host: Shruti Puri.
- 1:00 pm **Poorvu Academic Strategies Workshop:** *How to Study the Humanities at Yale*, So you want to study something in the humanities at Yale! This workshop addresses questions such as how to choose a major; how to build pathways within and outside of one's major; imposter syndrome/lack of pre-requisites; to double-major or not to double-major; certificates at Yale; and how to get paid to study the humanities. Poorvu Center, rm. M104A.

[More events](#)

News

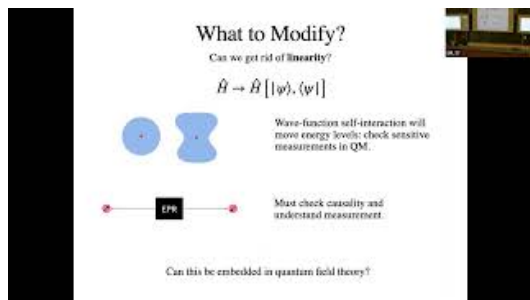


Congratulations Dr. Samuel Bryant!

On October 7, 2022, Samuel Bryant successfully defended the thesis, "Energy Dissipation Bounds in Fundamental Biological Processes" (advisor: Ben Machta).

[More news](#)

Social Media This week



Physics Club on YouTube

The October 24, 2022 Physics Club was presented by David Kaplan of Johns Hopkins University on "A Modification of Quantum Mechanics". See <https://youtu.be/ECf-3gMM3C8> for the video and further information.

Community

Shipping to Yale! Don't lose your package!

Please remember to use the central receiving address on all packages for those who work in SPL or WL and regularly or even occasionally have things shipped to work. Amazon, DHL, Fed Ex, and UPS do not have keycard access to our buildings which are red-lit all day. That policy will remain static for this quarter. Without swipe access to the building, delivery people often leave packages outside SPL and WL. These packages can be easily seen and taken by passers-by. For this reason, it is imperative to use the central receiving address on all packages. The address is:

266 Whitney Ave.

(Your building abbreviation and room number as if it were an apartment)

New Haven, CT 06511

You will receive an email when your package arrives at central receiving and again when it is delivered to the mailroom in your building. This procedure will help to ensure the intended recipient receives all packages.

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](#) - click here for updated information.

Opportunities

Faculty Positions

[Asst./Assoc./Full Professor in Experimental Quantum Science](#) - Yale University (anticipated start date July 1, 2023)

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

[Assistant Professor in Biological Physics](#) - Yale University (due date November 15, 2022, anticipated start date July 1, 2023)

[Assistant Professor in Experimental Nuclear Physics](#) - Yale University (due date November 1, 2022, anticipated start date July 1, 2023)

[Assistant Professor in Astrophysics & Cosmology](#) - Yale University (due date November 15, 2022, anticipated start date July 1, 2023)

[Assistant Professor, Applied Physics \(Quantum Information Theory\)](#) - Yale University (due date December 1, 2022, anticipated start date July 1, 2023)

[Assistant Professor, Applied Physics \(Experimental Condensed Matter Physics/Materials Science\)](#) - Yale University (due date **January 3, 2023**, anticipated start date **July 1, 2023**)

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

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

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

[2023-24 Assistant Professor Physics](#) - Illinois Wesleyan University (anticipated start date August 1, 2023)

[Tenure-Track Assistant Professor in Biophysics](#) - Johns Hopkins University (deadline **October 20, 2022**, anticipated start date of July 1, 2023)

[Assistant Professor Position in Quantum Condensed Matter and Atomic Molecular and Optical Physics](#) - NYU (review of applications will begin **November 1, 2022**)

[Assistant Professor in Theoretical Physics](#) - University of California, Berkeley (Deadline **November 11, 2022**)

[Cluster hire in Quantum Information, Materials, Sensors, and their Applications](#) - Washington University in St. Louis (deadline **November 14, 2022**)

[Assistant Professor, Department of Physics and Astronomy](#) - University of California, Davis (application deadline **November 18, 2022**, anticipated start date of July 1, 2023)

[Assistant Professor Position in Particle Astrophysics, Cosmology, and Gravitational Waves](#) - University of California, Riverside (application open through **December 31, 2022**, anticipated start date of July 1, 2023)

[Assistant/Associate Professor, Physics](#) - Hope College (deadline **December 31, 2022**)

[Tenure-track assistant professor position at ECE](#) - Princeton University (deadline **December 31, 2022**, preferred start date of September 1, 2023)

[Associate Professor Position in Particle Astrophysics, Cosmology, and Gravitational Waves](#) - University of California, Riverside (application open through **June 30, 2023**, anticipated start date of July 1, 2023)

[Assistant Professor Position in Experimental Quantum Information Science](#) - NYU (anticipated start date of **Sept. 1, 2023**)

Research Scientist Positions

[Research Scientist, Relativistic Heavy-Ion Research Group](#) - Yale University

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

Postdoctoral Positions

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

[Postdoc position in research and science communication](#) - Yale University (application deadline **October 1, 2022**)

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

[The Department of the Airforce Science & Technology Fellowship Program](#)

[Postdoctoral Scholar position in Quantum Condensed Matter Theory](#) - University of California, Santa Cruz (deadline **December 1, 2022**)

[2023 Postdoctoral Fellowship](#) - Perimeter Institute (deadline **November 8, 2022**)

[Dicke Fellow - Associate Research Scholar](#) - Princeton University (deadline **October 21, 2022**)

[Postdoctoral Prize Fellowship and Positions, Galaxies and Cosmology](#) - Max Planck Institute for Astronomy (MPIA) in Heidelberg (deadline **November 23, 2022**)

[Prize postdoctoral fellowship at Johns Hopkins Physics and Astronomy](#) - Johns Hopkins University (application open through **February 8, 2023**, consideration of applications will begin on November 1, 2022)

PhD Position

[PhD Positions in Quantum Condensed Matter Theory](#) - University of California, Santa Cruz (deadline **January 4, 2023**)

Graduate Student and Postdoc Research

[Dudley Observatory Astronomer](#) - Siena College

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

[NRC Research Associateship Programs](#) - National Academies for Sciences, Engineering, Medicine (Online applications open as follows December 1 (closes February 1), March 1 (closes May 1), June 1 (closes August 1), and **September 1 (closes November 1)**)

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 2023 Undergraduate Internships](#) - DOE Office of Science (applications due **October 5**)

Graduate Student and Postdoc Schools, Workshops, and Conferences

[Go Beyond: Postdoc Preview](#), October 28-30, 2022 - University of Notre Dame

[Quantum Creators Prize Symposium 2022](#), November 14-15, 2022 - The Chicago Quantum Exchange and the University of Chicago

[iid2022: Statistical Methods for Event Data](#), November 15-19, 2022 - University of Alabama in Huntsville

[Boulder School in Condensed Matter and Materials Physics 2023: Non-Equilibrium Quantum Dynamics](#), July 3-28, 2023 - University of Colorado, Boulder (deadline **January 15, 2023**)

Grants, Fellowships and Scholarships

Faculty

[Wilson Fellowship](#) - Fermilab (Deadline **November 4, 2022**)

Graduate

[Amplify Scholarship](#) - Optica (Deadline **December 9, 2022**)

Chair/Faculty may nominate up to 3 PhD students for each of the PhD Fellowship programs from your department.

[2023 Two Sigma PhD Fellowship](#) (Deadline **November 4, 2022**)

[2023 Two Sigma Diversity PhD Fellowship](#) (Deadline **November 4, 2022**)

Undergraduate

[Amplify Scholarship](#) - Optica (Deadline **December 9, 2022**)

There are two ways to submit the application: either a faculty/staff member from their department can submit on their behalf or the student can apply directly.

[2023 Two Sigma Undergraduate Scholarship](#) (Deadline **November 4, 2022**)

[2023 Two Sigma Diversity Undergraduate Scholarship](#) (Deadline **November 4, 2022**)



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For further information, or to contribute to the newsletter, please send email to [Daphne Klemme](#). Alumni can add/update their information by [clicking here](#).

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