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Yale Physics



Friday, October 29

Events

Monday, November 1

4:00 pm **Physics Club:** *Precision Electroweak Experiments at GeV Energies*, Jim Napolitano, Temple University, [zoom](#), passcode: 008008. Host: Keith Baker

Tuesday, November 2

11:00 am **Yale Quantum Institute Talk:** *Analyzing large superconducting circuits using solid-state inspired techniques*, Daniel Weiss, Northwestern University, [streaming here on zoom](#).

1:00 pm **Nuclear Particle Astrophysics Seminar:** *First search for an excess of electron neutrinos in MicroBooNE*, Jay Hyun Jo, Yale University, [zoom](#), password 441777. Host: Laura Havener

Wednesday, November 3

5:00 pm **Yale Quantum Institute Public Talk:** *The Many Worlds of Quantum Mechanics*, Sean Carroll, Caltech, [register here to attend in person in the YQI Seminar room](#) or [register here to receive the link to stream the event](#).

2:30 pm **Mechanical Engineering & Materials Science Seminar:** *Nanoparticle transport in crowded, confined media*, Jacinta Conrad, University of Houston, [contact department for zoom information](#).

3:30 pm **Department of Earth & Planetary Sciences Colloquium:** *Title TBA*, Alicia Cruz-Uribe, University of Maine, [contact department for zoom information](#).

4:15 pm **Department of Mathematics Colloquium:** *Title TBA*, Karim Adiprasito, Hebrew University, [contact department for zoom information](#).

Thursday, November 4

1:00 pm **Nuclear Particle Astrophysics Seminar:** *Deep Learning for Jet Quenching*, Daniel Pablos Alfonso, INFN, [zoom](#), password: 441777. Host Laura Havener

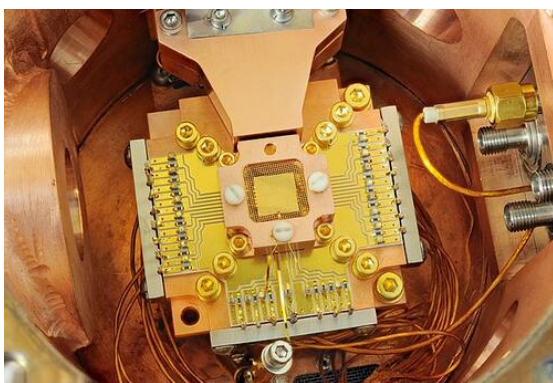
2:30 pm **Yale Astronomy Virtual Colloquium:** *Title TBA*, Kate Daniel, Bryn Mawr College, [contact department for zoom information](#).

Friday, November 5

- 9:00 am **Department of Chemistry Organic Chemistry Seminar: *Total Synthesis of Polycyclic Natural Products via Radical-initiated Cyclization and Cycloaddition***, Shuanhu Gao, East China Normal University, zoom, password 400349. Host: Seth Herzon.
- 12:00 pm **Yale Quantum Institute Colloquium: *Speeding up harmonic oscillator dynamics with parametric modulation***, Daniel Slichter, NIST, zoom. Host: Steven Girvin.
- 1:00 pm **Prospective Student Webinar: *Physics & Applied Physics***, Rona Ramos & Helen Caines, Yale University, [register today](#).

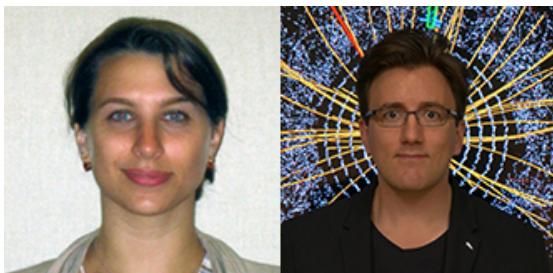
[More events](#)

News



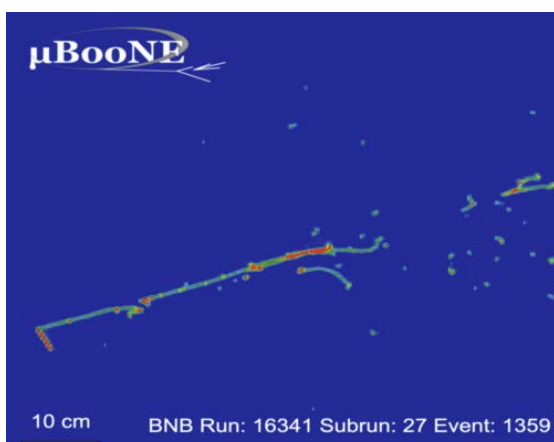
David Moore using qubits to search for dark matter

Assistant professor David Moore, along with three colleagues from other institutions, recently proposed a novel idea of using trapped electrons and ions—technologies that are being developed as qubits for quantum computation—as ultra-sensitive particle detectors that may be able to enhance the search for the nature of dark matter, neutrinos, new forces, and more.



Recent Alumni selected as a "Rising Star in Experimental Particle Physics" at the University of Chicago

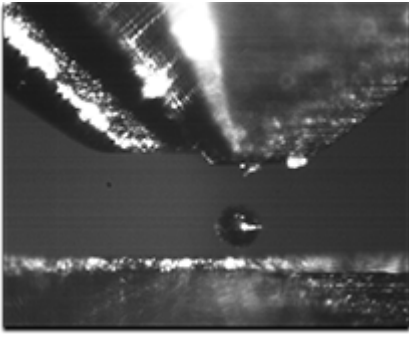
Elena Gramellini, Ph.D. 2018 with Bonnie Fleming, currently a postdoctoral associate at Fermilab and [Christian Weber](#), Ph.D. 2021 with Keith Baker, currently a research assistant at Brookhaven national Lab were both honored.



MicroBooNE experiment's first results show no hint of a sterile neutrino

Researchers in the Yale High Energy Physics group, led by professor Bonnie Fleming, along with the Micro Booster Neutrino Experiment (MicroBooNE) collaboration, have been searching since 2008 for evidence of an anomaly, first seen in a previous experiment called MiniBooNE, that could potentially have been a theoretical new particle called the sterile neutrino.

Giovanna Truong named a Rosenfeld Science Scholar



Giovanna Truong (YC'2023 Physics-Intensive major) presented her work at the Rosenfeld Science Scholars Symposium on Wednesday, September 22, 2021. Her presentation was on "Characterizing the Vibrational Modes of a Magneto-Gravitational Trap".



Sheridan Green successfully defends thesis

On October 26, 2021, Sheridan Green successfully defended the thesis "The tidal evolution of dark matter substructure and the significance of halo-to-halo assembly history variance". (Advisor: Frank van den Bosch).

[More news](#)

Community

Climate and Diversity Committee News

Project XIV, recently completed at Yale, consists of 14 pieces by composers of color, ten of which are new commissions, performed in the residential college courtyards by members of the Yale Concert Band, Yale Glee Club, Yale Jazz Ensemble, Yale Precision Marching Band, and Yale Symphony Orchestra. Project XIV premiered last week and is now available to all at [this link](#).

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



Bouchet honored with mural in New Haven

Kwadwo Adae has created a new mural in New Haven to honor Edward Alexander Bouchet, the first black person to earn a Ph.D. from an American University (Yale 1876, in physics).

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 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)

[Tenure-track Assistant Professor Position](#) - University of Minnesota Duluth (Deadline Nov. 10, 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)

[Assistant Professor in Gravitational Wave Experiments](#) - University of California, Berkeley (Deadline Nov. 26, 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)

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

[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

[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)

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

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

Graduate student and Postdoc Research

[Perimeter Scholars program](#) - Perimeter Institute (Deadlines **Dec. 1, 2021** for early consideration and Feb. 1, 2022 for final consideration)

[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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