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Yale Physics



Upcoming Events

Monday, November 23

2:00pm: Condensed Matter Seminar. Mao Tian Tan, University of Chicago, "[Operator Entanglement as a probe of information scrambling and quantum chaos](#)" via zoom.

Tuesday, November 24

1:00pm: WIDG Seminar. Lauren Saunders, Yale University, "[Telescope Pointing for the Simons Observatory](#)" via zoom.

Tuesday, December 1

4:00pm: Department of Chemistry Theoretical Seminar. David Limmer, University of California Berkeley, "[Title TBA](#)" via zoom, email department for link.

Wednesday, December 2

1:00pm: Yale Quantum Institute Talk. Kevin Valson Jacob, Louisiana State University, "[Title TBA](#)" via zoom, email department for link.

4:00pm: Molecular, Cellular & Developmental Biology Seminar. James Olzmann, University of California Berkeley, "[Title TBA](#)" via zoom.

4:15pm: Department of Mathematics Colloquium. Rachel Greenfeld, UCLA, "[Translational tilings in \$Z^d\$](#) " via zoom, email department for link.

Thursday, December 3

All Day: Office of the Provost. Yale Day of Data. [Click here for more information.](#)

1:00pm: NPA Seminar. Jean-Francois Paquet, Duke University, "[Constraining the Viscosities of QCD with Relativistic Heavy Ion Collisions](#)" via zoom.

1:00pm: Yale Quantum Institute joint UCSB NSF Quantum Foundry/Yale Quantum Institute Workshop. [Click here for registration.](#)

2:30pm: Yale Astronomy Colloquium. Ashley Martin, Stanford University, "[Title TBA](#)" via zoom, email department fo link.

Friday, December 4

All Day: Office of the Provost. Yale Day of Data. [Click here for more information.](#)

12:00pm: Yale Quantum Institute Webinar. David Moore, Yale University, "[Searching for dark matter with levitated optomechanical sensors](#)" via zoom, email department for link.

[More events](#)

News

PHYS 345 "Introduction to Quantum Information Processing and Communication"

Engineers, physicists, chemists, mathematicians, data and computer scientists: **Join the second quantum revolution!**

No prior knowledge of quantum physics is required.

Quantum Computing
Simulation
Communication & Encryption

What powers do quantum machines have?

Multiplication
Factorization

Classically easy
Quantum easy
Quantum hard

Quantum Chemistry
Real-time evolution of quantum systems

Chemistry and Physics
Introduction to Quantum Information Processing and Communication

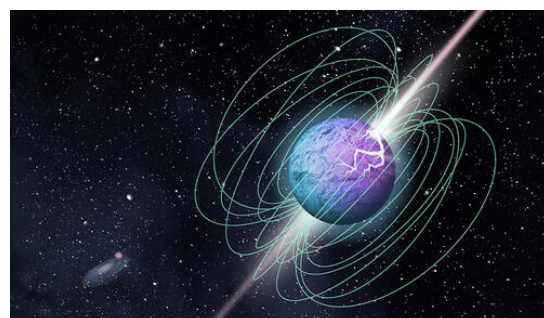
PHYS 345 is a new course in the Physics Department at Yale University. It is designed for students with a background in physics, chemistry, or computer science. The course covers the fundamentals of quantum information processing and communication, including quantum computing, quantum simulation, and quantum communication. The course is taught by Eugene Higgins Professor of Physics Steven Girvin.

PHYS 345 is a new course in the Physics Department at Yale University. It is designed for students with a background in physics, chemistry, or computer science. The course covers the fundamentals of quantum information processing and communication, including quantum computing, quantum simulation, and quantum communication. The course is taught by Eugene Higgins Professor of Physics Steven Girvin.

Yale Physics adds new courses and additional introductory class offerings for undergraduates

Yale Physics introduces two new courses for Spring 2021: (1) PHYS 337 Cinema and Physics, co-taught by Thomas E. Donnelley professor of humanities and professor of film studies Francesco Casetti and Frederick W. Beinecke professor of applied physics Michel Devoret, and (2) PHYS 345 Introduction to Quantum Information Processing and Communication, instructed by Eugene Higgins Professor of Physics Steven Girvin. Full course descriptions are included, below.

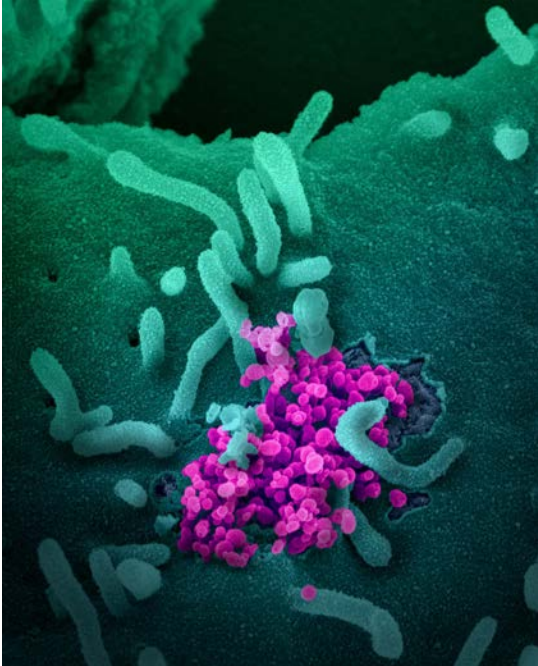
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Assistant professor Laura Newburgh interprets a magnetar's message

Assistant professor Laura Newburgh has developed pioneering analysis and measurements that helped establish the brightness of a fast radio burst (FRB) emanating from a nearby magnetar located in the Milky Way.

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COVID-19 Update

Please check [Yale COVID-19 Statistics](#) for current statistics. The current COVID-19 Alert Level is Orange (see the site for an explanation).

- [COVID-19 Workplace Guidance website](#)
- [Yale College COVID-19 Announcements and FAQs](#)
- [Graduate School for Arts and Sciences 2020-2021 Academic Year FAQs for Graduate Students](#)
- [Further information on Yale's response](#)
- [Yale Physics COVID-19 site](#)

[Read More](#)

Community



Climate and Diversity Committee

November 18th was LGBTQ+STEM day. The celebration has been moved from its previous July date to mark the 60th anniversary of American Astronomer and gay activist Frank Kameny's US Supreme Court fight against workplace discrimination. According to a [2015 APS survey](#), half of the transgender or gender non-conforming physicists were harassed in their own department. This [2019 Exploring The Workplace For LGBTQ+ Physical Scientists](#) reports that 20% of trans people had often considered leaving, while one in three physicists in America has been urged to stay in the closet to progress in their career. Learn more about the day [here](#) and [read interviews with people of the LGBTQ+ in STEM community](#). Thanks for your ongoing efforts to make sure our department and Yale are part of the solution not the problem.

If interested in joining the [CDC](#), please contact [Helen Caines](#), Chair of CDC. You may contact the whole committee at physics-cdc@mailman.yale.edu

External Opportunities

Faculty positions

[Faculty Positions at the Perimeter Institute in Quantum Matter and Quantum Information Science \(Deadline December 1, 2020\)](#)

[Faculty Position in Theoretical Particle Physics at NYU \(Deadline December 1, 2020\)](#)

[Faculty Position in Electrical Engineering - Department of Electrical Engineering, Princeton \(Deadline December 31, 2020\)](#)

[Faculty Position in Theoretical Condensed Matter Physics at the University of Tennessee, Knoxville \(Deadline January 15, 2021\)](#)

Fellowships

[American Physical Society Congressional Science Fellowship \(Deadline December 15, 2020\)](#)

[Perimeter Scholars International Program \(PSI\) - Early Application Deadline: November 15, 2020 & Final Application Deadline: February 1, 2021.](#)

[Mortimer B. Zuckerman STEM Leadership Program Fellowship to work in the Atom Chip Lab at Ben-Gurion University.](#)

Undergraduate Research

[Caltech WAVE Fellows Undergraduate Research Program \(Deadline January 9, 2021\).](#)

[Undergraduate School on Experimental Quantum Information Processing and Undergraduate Research Award at the University of Waterloo, Canada \(Deadline January 5, 2021\).](#)

[REU Program In Neutrino Physics at The Center for Neutrino Physics, Virginia Tech \(Application Cycle December 1, 2020 - February 1, 2021\)](#)

[Summer Research Experience for Undergraduates in Nanoscience and Engineering at Vanderbilt Institute of Nanoscale Science and Engineering \(Deadline February 15, 2021\).](#)

[Summer Research Opportunity in Physics at Kansas State University \(Deadline February 15, 2021\)](#)



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

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