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Yale *Physics*

Friday, April 15, 2022

Events

Saturday, April 16

11:00 am or 2:00 pm — **HSTEM Project at CCAM:** *Participants needed!*. Help us improve the ambiance on campus at the Yale Center for Collaborative Arts and Media (CCAM), rm. 110, 149 York Street. This is part of PHYS 107 Being Human in STEM (HSTEM).

Monday, April 18

4:00 pm — **Physics Club:** *Criticality and Dynamical Bifurcations in Cellular Sensing*, Ben Machta, Yale University, SPL 58 & zoom (passcode: 863491). Host: Simon Mochrie.

Tuesday, April 19

10:00 am — **Special Condensed Matter Theory Seminar:** *Fermionic particles, fermionic loops, and gravitational anomalies*, Yu-An Chen, University of Maryland, SPL 51. Host: Meng Cheng.

3:00 pm — **WIDG Seminar:** *Measuring a New Class of Jet Observables with Neural Network Based Unfolding*, Jingjing Pan, Yale University, WL 216. Host: Tong Liu.

Wednesday, April 20

4:00 pm — **Earth & Planetary Sciences Colloquium:** *Title TBA*, Benjamin Tutolo, University of Calgary, KGL 123.

4:15 pm — **Mathematics Colloquium:** *Title TBA*, Sarah Peluse, Princeton University, LOM 206.

Thursday, April 21

2:30 pm — **Yale Astronomy Virtual Colloquium:** *Resonant Evolution: Reconstructing the dynamical history of the Milky Way*, Kate Daniel, Bryn Mawr College, contact the Astronomy department for connection information.

Friday, April 22

10:30 am — **Kimball Smith Series Program:** *Nuclear Weapons Today: Physics and*

Politics, Lisbeth Gronlund, MIT & Alexandre Debs, Yale University, ESC 110 (21 Sachem Street).

Sunday, April 24

1:00 pm **Spring WiP Brunch:** All women and gender minority undergrads, grad students, post-docs, researchers, and faculty associated with the physics and astronomy departments are invited. At Prof. Maruyama's house. Click here to sign up.

More events

News

Charles D. Brown II featured in World Quantum Day video

As part of the observation of World Quantum Day the White House Office of Science and Technology Policy (OSTP) released the video, "This is Quantum". Our very own incoming faculty member Charles D. Brown II is featured in this video talking about quantum science.

Thomas Appelquist featured in AIP Oral History Interview

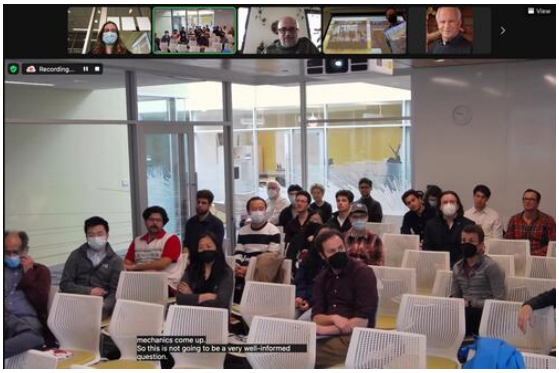
Yale Physics Thomas Appelquist, Eugene Higgins Professor of Physics, was interviewed by David Zierler for the American Institute of Physics (AIP) Oral History interviews, which offer unique insights into the lives, works, and personalities of modern scientists. Interviews range in date from the early 1960s to the present and cover the major areas and discoveries of physics from the past 100 years.

Yale Physics James Nikkel awarded seed grant from Yale Planetary Solutions Project

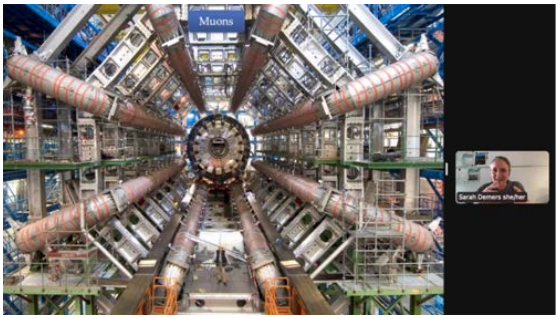
The Yale Planetary Solutions Project has awarded James Nikkel, research scientist and director of the Wright Lab Advanced Prototyping Center and his collaborators a seed grant for their project “The New Haven Harbor Living Laboratory”.

Yale Physics’ Wright Lab Quantum Sensing Workshop opens Quantum Week at Yale

On April 8, 2022, about 50 people gathered both at Wright Lab and via Zoom to participate in the Wright Lab Quantum Sensing

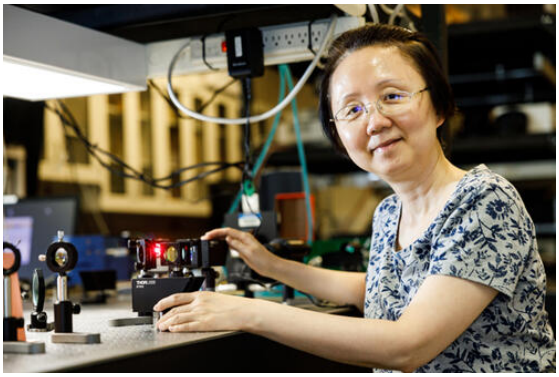


Workshop, which kicked off the first ever Quantum Week at Yale.



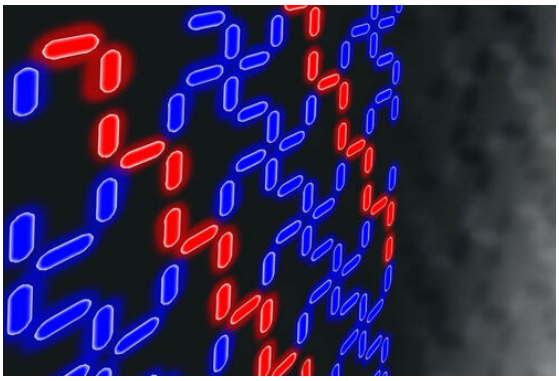
Yale Physics' Wright Lab hosts 2022 Girls Advancing in STEM (GAINS) Conference at Yale

Yale and Wright Lab partnered with the GAINS Network to host the 2022 Girls Advancing in STEM (GAINS) Conference on April 7-8, 2022, via Zoom.



Hui Cao keeps finding new ways for lasers to improve our world

Hui Cao continues to invent new types of lasers, and find new ways to put them to use. Conversely, sometimes her lab explores practical applications, which then leads to new insights about the fundamental physics of lasers. She has pioneered the use of random lasers in biomedical imaging. She has figured out how to stabilize chaotic lasers by using chaotic cavities, that is, "fighting fire with fire."



Peter Schiffer 'Frustrated Nanomagnets Order Themselves Through Disorder"

Extremely small arrays of magnets with strange and unusual properties can order themselves by increasing entropy, or the tendency of physical systems to disorder, a behavior that appears to contradict standard thermodynamics—but doesn't.

More news

Community

Climate and Diversity Committee News

Spring is here! Get outside, enjoy the weather, and smell the daffodils.

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

Visiting Assistant Professor in Physics (2 positions) - Illinois Wesleyan University

Asst. Prof. in Experimental Particle Physics position - UPenn

Assistant Professor of Physics, Tenure track - The College of Wooster

Junior Faculty Search in Fundamental symmetries (experiment), broadly defined - UC Berkeley

Assistant Professor in Experimental Particle Physics - University of Pennsylvania

Physics Faculty Postion - CSU San Bernardino

Full-Time Lecturer Position in Physics - University of Massachusetts, Dartmouth College of Engineering

Physics Clinical Assistant Professor Position - NYU

Associate/Full Professor, Experimental Atomic, Molecular, and Optical Physics - Yale University

Faculty and Associate Faculty Positions - Perimeter Institute

Assistant Professor in Biophysics - University of North Texas in Denton

Assistant Professor or Associate Professor in Photonics - University of North Texas in Denton

Assistant Professor in Energy - University of North Texas in Denton

Postdoctoral Positions

2022 Perimeter Scholars International Fellowship - Perimeter Institute for Theoretical Physics (deadline Apr. 15, 2022)

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

Postdoctoral Associate Position in Theoretical Physics - Yale University

Product Development Engineer - Hyperlight

Integrated Photonics Research Scientist - Hyperlight

Lab Positions

Lab Director, Undergraduate Quantum Education Laboratory - the University of Chicago

Graduate Student and Postdoc Research

Experimental-Physics Education Specialist - Scripps College

Dudley Observatory Astronomer - Siena College

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

Scholarship Opportunities

Laura Bassi Scholarship - Editing Press (deadline July 27, 2022 (Summer 2022))

Grant Opportunities

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

Summer Schools

Advanced Cyperinfrastructure Training for Modeling Physical Systems at Rensselaer Polytechnic Institute - Boot Camp: June 15-17, 2022 & Summer School: June 20-July 8, 2022 (deadline May 15, 2022)

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For further information, or to contribute to the newsletter, please send email to Daphne Klemme.

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