Friday, October 7, 2022

**Events**

**Monday, October 10**

4:00 pm  **Physics Club:**  *Creating entangled quantum systems using tweezer arrays*, Manuel Endres, Caltech, SPL 57. Host: Nir Navon.

**Tuesday, October 11**

10:30 am  **Yale Quantum Institute Talk:**  *Spintronics in flatland: controlling magnetism in heterostructures based on 2-dimensional van der Waals magnets*, Vishakha Gupta, Cornell University, YQI Seminar Room.

12:00 pm  **WIDG Seminar:**  *Searching for Dark Matter via a Levitated Microsphere Array*, Benjamin Siegel, Yale University, WL 216. Host: Jiaxiang Wang.

1:00 pm  **AMO Seminar:**  *The 2N+1 many-body problem: an impurity immersed in a spin 1/2 fermionic superfluid*, Frédéric Chevy, Ecole normale supérieure, SPL 51. Host: Nir Navon.

12:00 pm  **Yale Quantum Insitute Professional Development Series:**  *Science Communication: Take Charge of It!*, Matteo Rini, American Physical Society, YQI Seminar Room. Register here.

4:00 pm  **Particle Theory Seminar:**  *Gravity as a Gapless Phase*, Gregoire Mathys, Cornell University, SPL 51. Host: Petar Tadic.

**Wednesday, October 12**


4:30 pm  **Nobel Prize in Physics 2022 Lecture:**  *Spooky Action at a Distance wins the Nobel Prize*, A. Douglas Stone, Yale University, SPL 57. Host: Sarah Demers.

**Thursday, October 13**

1:00 pm  **Nuclear Particle Astrophysics Seminar:**  *SBND Installation and Commissioning*, Monica Nunes, Fermilab, WL 216. Host: Avinay Bhat.
2:30 pm  
Yale Astronomy Colloquium:  
_A Collage of Exoplanets on the Mass-Period Diagram_, Ji Wang, Ohio State University, WTS A-51.

Friday, October 14

9:00 am  
Department of Cell Biology Special Seminar:  
_Probing the Nanoscale Membrane Deformations in Cells_, Dr. Wenting Zhao, Nanyang Technological University, Singapore, SHM C-428. Host: Xiaolei Su.

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. Host: Jorge Torres. Email for zoom connection information.

1:30 pm - 4:00 pm  
Poorvu Center for Teaching and Learning & Yale University Art  
_Gallery: STEM in the Museum: Teaching Skills and Content through Art_, Speakers: Meg Urry (Yale University), Bahram Moasser (University of Notre Dame), Cynthia Taylor (Oberlin College), Jennifer Cholnoky (Skidmore College), and Sarah Petersen (Kenyon College), 301 York St., rm. 120A-B. Register here.

More events

News

In Memoriam: Mary Anne Schulz

Mary Anne Schulz passed away September 29, 2022 at her home. She was born January 15, 1938 in New Haven, and lived her entire life in this city she loved. Mary Anne worked for Yale University at Wright Nuclear Structure Lab (WNSL, now Wright Lab) for 46 years, where she fortuitously met her husband Steve. Mary Anne loved her job at WNSL and cared deeply for the people she worked with.

Murray receives Yale Faculty Innovation Award

John Murray, Associate Professor in Psychiatry and Physics, has won a Yale Faculty Innovation prize for his company Manifest Technologies.

New Lecture on the Nobel Prize in Physics

The Yale Physics Department is introducing a new lecture on the Nobel Prize in Physics geared towards undergraduate students and the general public. The initial lecture will be held on October 12, 2022 and presented by
Social Media This week

Sarah Demers in AIP Oral History Interview

Sarah Demers, professor of physics and a member of Yale’s Wright Lab, 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. Among the top posts for the month on social media.

Community

Climate and Diversity News

GAINS Conference Volunteer Opportunities

Some of you in our community volunteered at the remote Girls Advancing in Stem (GAINS) conference last Spring, giving technical talks, workshops, or tours, or participating in a career mixer for high school girls from across the nation who are interested in pursuing academic or professional futures in STEM. GAINS is excited to return to Yale for an in person conference this November and we would love for you to be involved again or for the first time! Note: These are going to be different students than last time so feel free to offer the same programming!

The GAINS Conference would not be a success without the help of many volunteers at our hosting institution! We are looking for Yale researchers (faculty, postdoctoral fellows, or graduate students) who would like to offer a bit of their time to support this conference. If you are interested, please REGISTER TO VOLUNTEER to give a technical talk, workshop, or tour, and/or to participate in a career mixer. Questions? Feel free to contact Victoria Misenti for more information.

The GAINS conference is a school-based event for high school girls interested in STEM. Teachers register themselves and up to 6 student participants from their school. Registration is a multi-step process that is initiated by teachers!
Opportunities

Faculty Positions

Asst./Assoc./Full Professor in Experimental Quantum Science - Yale University

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

Assistant Professor in Biological Physics - Yale University

Assistant Professor in Experimental Nuclear Physics - Yale University

Assistant Professor in Astrophysics & Cosmology - Yale University

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

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

Assistant Professor of Physics - University of Oregon (application deadline October 15, 2022)

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, 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)

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
Grants

NASA CT Space Grant Consortium (deadline October 13, 2022)

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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