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# Yale Physics



## Week of January 14-20, 2024

### Events

#### Monday, January 15

All day **University Holiday.** The physics department administrative offices are closed for observance of the Martin Luther King, Jr. holiday.

#### Tuesday, January 16

8:20 am **Spring-term classes begin**

10:00 am **Physics Dissertation Defense:** *Search for Time-Reversal-Symmetry Violation in Thallium Fluoride Using a Cryogenic Buffer-Gas Beam Source*, Jakob Kastelic, Yale University, WL 216 + zoom. Thesis advisor: Steve Lamoreaux.

10:30 am **Department of Chemistry - Experimental Physical Chemistry Seminar:** *Quantum sensing applications for spin chemistry*, John Abendroth, ETH Zürich, SCL 160. Host: Mark Johnson.

4:00 pm **Particle Theory Seminar:** *Probing nucleon structures with Energy Correlators*, Fanyi Zhao, MIT, SPL 48. Hosts: Petar Tadic, Bianka Mecaj, and Murat Kologlu.

#### Thursday, January 18

10:30 am **Department of Chemistry - Experimental Physical Chemistry Seminar:** *Unraveling Charge Transfer Mechanisms in Optoelectronic Materials with Ultrafast Optical Spectroscopy*, Yifan Dong, National Renewable Energy Laboratory, SCL 160. Host: Mark Johnson.

1:00 pm **Condensed Matter Theory Seminar:** *Title - To Be Announced*, Alexander Avdoshkin, MIT, SPL 51.

2:30 pm **Yale Astronomy & Astrophysics Colloquium:** *Gyrochronology: a route to the ages of cool field stars*, Sydney Barnes, Leibniz Institute for Astrophysics Potsdam (AIP), TBD.

#### Friday, January 19

All day **Friday classes do not meet; Monday classes meet instead**

## News



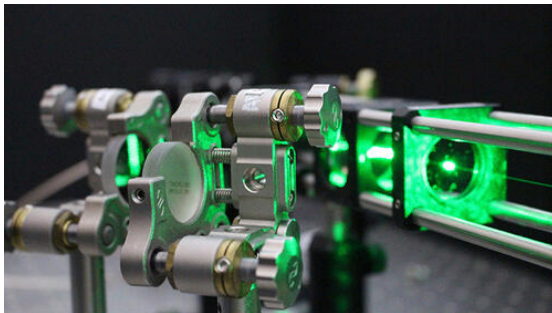
### **Brown receives AFRL Young Investigator Program Award**

Assistant professor Charles D. Brown II has received an award from the Air Force Research Laboratory Young Investigator Program (YIP) for his project “Exploring Exotic Transport Properties of Quasicrystals Using Ultracold Atoms in an Optical Decagonal Quasicrystal Lattice”.



### **New Haven Harbor Living Laboratory provides solutions to planetary challenges**

James Nikkel and his collaborators in the APC, the Yale School of the Environment, and The Sound School have been expanding and enhancing the Sound School’s artificial oyster reef in order to develop and implement solutions to three challenges for our planet.



### **Wright Lab experiments receive foundation funding**

Two experiments with Wright Lab involvement, ALPHA and MAST-QG, have been chosen to be funded by a partnership of The Gordon and Betty Moore Foundation, the Simons Foundation, the Alfred P. Sloan Foundation, and the John Templeton Foundation.



### **First Yale Gravitational Wave Symposium sparks research innovation**

The first Yale Gravitational Wave Symposium was held from November 20-21, 2023 at Yale University’s Kline Tower in New Haven.



## Yale Society of Physics Students wins Outstanding Chapter for 4th time

Yale University's Society of Physics Students (SPS) Chapter has been awarded the Outstanding Chapter Award by the SPS National Office for the fourth year in a row.

[More news](#)

## Community

### Climate and Diversity Committee News

#### Annual Celebration of Dr. Martin Luther King, Jr.

Yale has a long tradition of celebrating Reverend Dr. Martin Luther King, Jr.'s legacy. On January 14, 1959, King spoke to a full house in Woolsey Hall about the future of integration and the civil rights movement and celebrated his 30th birthday the following day on campus. He spoke again at Battell Chapel three years later, on January 14, 1962. In 1964, Yale presented King with an honorary Doctor of Laws degree.

Yale University will again honor the life and work of Rev. Dr. Martin Luther King, Jr. with celebrations on campus and in the New Haven community. These commemorative events highlight Yale's and New Haven's spirit of service and provide an opportunity for education and unity in these challenging times. Please explore this [website](#) for more information and join in events throughout January to honor the legacy of Rev. Dr. Martin Luther King, Jr.

*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](mailto:physics-cdc@mailman.yale.edu).*

### Lost and Found

Reminder, there is a Lost and Found box in the Chair's Office. [Please check our flickr album](#) to see what has been collected over the last AY. If you have an item go missing or think you have left it behind somewhere, please check with Kirstin or Jen in the Chair's Office (SPL 34).

### COVID-19 Update

[Yale COVID-19 Information](#) - including updates on [testing](#) and [vaccinations](#).

## Opportunities

### Faculty Opportunities

[2024 Machine Learning for Mathematical & Quantum Physics Tenure Track Faculty Position](#) - Perimeter Institute (deadline **January 15, 2024**).

[2024 Simons Emmy Noether Fellowship: Faculty Stream](#) - Perimeter Institute for Theoretical Physics (application deadline **January 15, 2024**).

[Spring 2024 Awards - NASA CT Space Grant Consortium](#) (deadline **January 17, 2024**). Our campus representative is [Andrew Szymkowiak](#).

[Faculty Position: Research Assistant, Associate, or Full Professor - CENPA - University of Washington, Seattle](#) (deadline **February 16, 2024**).

[Assistant Professor, Condensed Matter and Materials Theory - University of California, Santa Cruz](#) (anticipated start July 1, 2024; deadline **June 30, 2024**).

[Two tenure-track Assistant Professor positions in experimental physics - Illinois Wesleyan University](#).

[Faculty positions in experimental and theoretical physics - King Fahd University of Petroleum and Minerals, Physics Department](#).

## **Postdoctoral Opportunities**

[2024 Simons Emmy Noether Fellowship: Postdoctoral stream - Perimeter Institute for Theoretical Physics](#) (application deadline **January 15, 2024**).

[Postdoctoral Position in Direct Dark Matter Detection - South Dakota Mines](#) (application deadline **January 31, 2024**).

[Postdoctoral Fellowships in Physics and Astronomy - Johns Hopkins University](#) (deadline **February 29, 2024**)

[Postdoc Position in Theoretical Condensed Matter and Computational Biophysics - UC Riverside](#)

[Experimental Postdoctoral Position in Electron-Positron Plasmas - UC Riverside](#)

[Postdoctoral Position in the Quantum Monte Carlo Group - Washington University in St. Louis](#)

[Postdoctoral Research Position in Experimental Neutrino Physics - University of Pittsburgh](#)

## **Graduate Student Opportunities**

[Foreign Affairs Information Technology Fellowship - U.S. Department of State](#) (deadline **January 16, 2024**).

[Spring 2024 Awards - NASA CT Space Grant Consortium](#) (deadline **January 17, 2024**). Our campus representative is [Andrew Szymkowiak](#).

[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))

[Perimeter Scholars International - Perimeter Institute for Theoretical Physics](#) (deadline **February 1, 2024**)

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

## **Undergraduate Student Opportunities**

[PSI Start Program - Perimeter Institute for Theoretical Physics](#) (deadline **January 15 2024**).

[Foreign Affairs Information Technology Fellowship - U.S. Department of State](#) (deadline **January 16, 2024**).

[Spring 2024 Awards - NASA CT Space Grant Consortium](#) (deadline **January 17, 2024**). Our campus representative is [Andrew Szymkowiak](#).

[Research Experience for Undergraduates](#) - The Center for Neutrino Physics, Virginia Tech (application deadline **February 15, 2024**)

[REU Interactions of Matter, Light & Learning](#) - Kansas State Physics (application review begins February 19, 2024 until all places are filled)

[Physics Research Positions for Undergraduate Physics Majors Summer 2024](#) - University of Notre Dame (deadline **February 19, 2024**)

[Undergraduate Research](#) - Yale School of Medicine

## Meetings, Schools, Workshops, and Conferences

[American Physical Society Webinars](#) - Student Success, PULSE Undergraduate Research Webinar: Selecting Good Mentors, January 31, 2024 @ 10:00 a.m. ET.

[Gordon Research Seminar](#): The Bounds of Mechanical Systems From Probes of New Physics to Hardware for Quantum Technologies, March 2-3, 2024 - Ventura, CA. Applications for this meeting must be submitted by **February 3, 2024**.

[Gordon Research Conference](#): Mechanical Systems in the Quantum Regime, March 3-8, 2024 - Ventura, CA. Applications for this meeting must be submitted by **February 4, 2024**.

[American Physical Society March Meeting 2024](#), March 3-8, 2024 - Minneapolis, MN. In-person and virtual. Early bird registration through **January 17, 2024**).

[American Physical Society April Meeting 2024](#), April 3-6, 2024 - Sacramento, CA. Abstract registration open until **January 12, 2024**.

[American Physical Society 55th Annual Meeting of the APS Division of Atomic, Molecular and Optical Physics](#), June 3-7, 2024 - Fort Worth, TX. Abstract submission open through **February 2, 2024**.

[Boulder School for Condensed Matter and Materials Physics: Self-Organizing Matter](#), July 1-26, 2024 - University of Colorado Boulder. Application deadline **January 15, 2024**.

[MCQST Summer Bachelor Program](#), August 3-30, 2024 - Munich, Germany. Application deadline **January 31, 2024**.



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