

Yale Physics



Week of February 4-10

Events

Monday, February 5

- 10:00 am **Special Solid State & Optics Seminar:** *Deep Sensing: Next generation optical fibre sensors powered by machine learning*, Dr. Stephen Warren Smith, University of South Australia, BCT 227 + zoom (passcode: 813933). Host: Hui Cao.
- 3:30 pm **Physics Club:** *Hunting for Ghosts using Rare-Isotope Doped Superconducting and Optomechanical Sensors*, Kyle Leach, Colorado School of Mines, SPL 57 + zoom (passcode: 595687). Host: David Moore.

Tuesday, February 6

- 1:30 pm **Cosmology Seminar:** *Advancing Cosmology with Robust ML*, Leander Thiele, Princeton University, KT 401. Host: Xinyi Chen. Sign up to meet the speaker.
- 2:30 pm **NPA Seminar:** *A Tale of Two Symmetries: Examining the PMNS and CKM Matrices via Weak Nuclear Decay*, Kyle Leach, Colorado School of Mines, WL 216. Host: Thomas Penny.

Wednesday, February 7

- 12:00 pm **Yale Quantum Institute Seminar:** *Demonstrating a long-coherence dual-rail erasure qubit using tunable transmons*, Harry Levine, AWS Center for Quantum Computing, YQI Seminar Room + zoom. Host: Rob Schoelkopf.
- 4:00 pm **Molecular, Cellular and Developmental Biology & Department of Chemistry Seminar:** *From RNA G4s to group II intron and theta ribozymes – a tale of metal ions at the core of structure and function*, Roland K. O. Sigel, University of Zurich, Location Bass 305. Host: Anna Pyle and Chemistry.
- 4:00 pm **Marx Science & Social Science Library Workshop:** *Introduction to EndNote for Windows*. This is an online event. [Register](#) to receive event URL.

Thursday, February 8

- 8:00 am **Yale Quantum Institute Public Event - Exploring Quantum Through Art and Design:** *The Entangled Marriage of Art and Quantum Physics*, Florian Carle,

Yale University, Berlin University of Arts. [Click here](#) for full list of speakers.

- 1:00 pm **NPA Seminar:** *Characterizing the Properties of Accreting Neutron Stars through X-ray Observations*, Renee Ludlam, Wayne State University, WL 216. Hosts: Isaac Mooney & Sabrina Zacarias.
- 1:00 pm **Condensed Matter Theory Seminar:** *Bridging Hubbard and quantum Hall physics in twisted bilayer graphene*, Patrick Ledwith,, Harvard University, SPL 51.
- 2:30 pm **Yale Astronomy Colloquium:** *Title to be announced*, Susan Clarke, Stanford University, KT 205.
- 4:30 pm **Physics & QBio Hageromo Hour:** *Natural swarms in 3.99 dimensions*, Luca Di Carlo, Princeton University, SPL 56. Hosts: Michael Abbott, Isabella Graf & Mason Rouches.

Friday, February 9

- 11:00 am **QBio Seminar:** *How behavioral and evolutionary constraints sculpt early visual processing*, Stephanie Palmer, The University of Chicago, YSB 352. Host: Damon Clark.

[More events](#)

News



Welcome Mossman Fellow Max Silva-Feaver

Yale Physics welcomes Max Silva-Feaver as the Yale Mossman Fellow for 2023. Silva-Feaver is a member of Yale's Wright Lab, working with both assistant professor Laura Newburgh and professor Reina Maruyama in the the fields of cosmology and dark matter detection.



Congratulations Dr. Kastelic

On January 30, Jakob Kastelic successfully defended the thesis, "Search for Time-Reversal-Symmetry Violation in Thallium Fluoride Using a Cryogenic Buffer-Gas Beam Source" (advisor: David DeMille).

[More news](#)

Community

Climate and Diversity Committee News

Cyber Habit Challenge

Our [21-day Cyber Habit Challenge](#) starts Feb. 1. Build safe cyber habits that protect Yale and your personal information. Each day in February you'll be tasked with a cybersecurity action that's easy to complete and builds your cyber knowledge base. [Sign up to join us!](#)

Focus on Black History Month

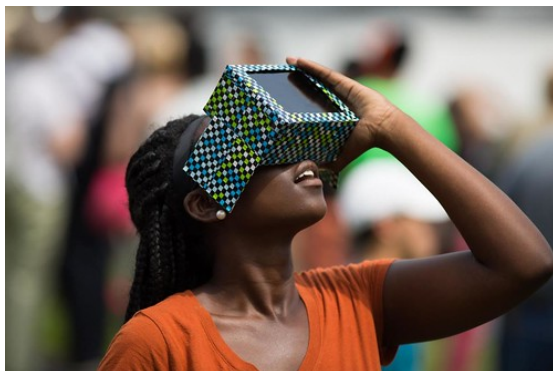
Explore the many [groups, events, graphic resources, and other opportunities](#) that celebrate our colleagues and classmates and raise awareness around Black history. We thank partners across Yale for contributing to this list.

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.

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).

Outreach



Call for Volunteers: 2024 Yale LFOP Solar Eclipse Viewing

The [next solar eclipse](#) is taking place on **Monday, April 8**. If you are interested in helping out at the public viewing event at Yale's Leitner Family Observatory and Planetarium (LFOP), [sign up here](#). Volunteers will help operate telescopes, hand out eclipse glasses, interact with guests, etc. Questions? Contact kristin.kampp@yale.edu.

COVID-19 Update

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

Opportunities

Faculty Opportunities

[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

[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](#) (application deadline **March 31, 2024**)

Graduate Student Opportunities

[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))

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

Undergraduate Student Opportunities

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

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

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

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

Meetings, Schools, Workshops, and Conferences

[American Physical Society Webinars - Student Success, PULSE Undergraduate Research Webinar: Effectively Communicating your Findings, February 28, 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. Regular registration through **February 20, 2024**.

[American Physical Society April Meeting 2024, April 3-6, 2024 - Sacramento, CA.](#) Early Bird registration open until **February 20, 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**.

[2024 Fall Meeting of the APS Division of Nuclear Physics, October 6-10, 2024 - Boston, MA.](#)



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