

# Yale Physics



## Week of January 21-27

### Events

#### Monday, January 22

- 8:00 am - **Yale Systems Biology Institute: SBI/MCDB Symposium**, Maurice R. Greenberg Conference Center, 391 Prospect Street. Contact: [Benita Palmer](#) .
- 1:40 pm
- 3:30 pm **Physics Club: *Quantum Materials by Design***, Andrea Damascelli, University of British Columbia, SPL 57 + [zoom](#) (passcode: 595687). Host: [Eduardo da Silva Neto](#).

#### Tuesday, January 23

- 1:00 pm **Special Solid State & Optics Seminar: *Probing condensates' coherence by time-resolved ARPES: From superconductors to excitonic insulators***, Andrea Damascelli, University of British Columbia, BCT CO31 + [zoom](#) (passcode 102595). Host: [Eduardo da Silva Neto](#).
- 4:00 pm **Particle Theory Seminar: *The semiclassical description of CFT in the large charge regime***, Riccardo Rattazzi, EPFL, SPL 48.

#### Wednesday, January 24

- 4:00 pm **Molecular, Cellular and Developmental Biology Seminar: *Mitotic inheritance of genetic and epigenetic information***, Yannick Jacob, Yale University, Bass 305. Host: 3:45 pm Tea.

#### Thursday, January 25

- 1:00 pm **Condensed Matter Theory Seminar: *The measurement-induced entanglement phase transition in all-to-all quantum circuits and in quantum trees***, Brian Skinner, Ohio State University, SPL 51. Host: Tyler Ellison.
- 1:00 pm **NPA Seminar: *Jets and medium response in relativistic heavy ion collisions: Probing quark-gluon plasma***, Yeonju Go, Brookhaven National Laboratory, WL 216. Host: [Isaac Mooney](#).
- 2:30 pm **Yale Astronomy Colloquium: *Title - To Be Announced***, Ed Bertschinger, MIT, KT 205.

- 4:00 pm **The Franke Program in Science and the Humanities Lecture:** *From Cross Campus to West Campus to Science Hill: The Yale Ancient Pharmacology Program*, Andrew Koh, Yale Peabody Museum, HQ L02.
- 7:00 pm **Yale Library:** *Treasures from the Yale Film Archive: Dr. Strangelove*, introductory remarks by Priya Natarajan, Department of Astronomy, HQ L02. Event coordinated by the Kimball Smith Series.

## Friday, January 26

- 11:00 am **Special Solid State & Optics Seminar:** *The birth of photocathode quantum materials*, Ruihua He, Westlake University, BCT CO31 + zoom (password: 519224). Host: Yu He.
- 11:30 am **Wright Lab Event:** *EHS Orientation for WL Shops*, John Campbell, Environmental Health and Safety, Yale University, WL 216. [Register here.](#)
- 12:00 pm **Yale Quantum Institute Colloquium:** *Logical quantum processor based on reconfigurable atom arrays*, Dolev Bluvstein, Harvard University, YQI Seminar Room.

[More events](#)

## News



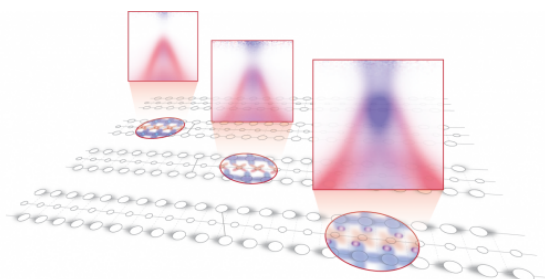
### What goes up, must... be quantum?

Yale will play a key role in a new experiment that cuts to the heart of a fundamental force in the universe. The experiment will test the notion that gravity, one of the fundamental forces in the physical world, relies upon quantum physics to work.



### Yale's quantum computing journey — 20 years and counting

Yale's quest to build the world's first, fully useful quantum computer is also the story of a small-town kid's obsession with short-wave radios, a Parisian's fond boyhood memories of America, and a high school student from the New York suburbs who soaked up Saturday morning science programs at Yale's Becton Center.



### Insights into the Metal-to-Insulator Transition

Metal-to-insulator transition - a process that turns materials from a conductor to an insulator - has been a crucial process behind microelectronic switches, nonvolatile memory, and neuromorphic computing materials.

## Community

### Climate and Diversity Committee News

**Yale's MLK Commemoration: Ruby Bridges in conversation with William (Billy) Johnson**  
*Building Bridges, Breaking Barriers: The Ongoing Fight for Educational Justice*

**Wednesday, January 24, 5:30 pm - 7:00 pm, Woolsey Hall**

Ruby Bridges is a Civil Rights icon, activist, author, and speaker who, at the age of six, was the first Black student to integrate an all-white elementary school in Louisiana.

[Dr. William \(Billy\) Johnson](#) is the Director of Educational Strategy at the William Caspar Graustein Memorial Fund in Connecticut. He brings his lived experience and education systems perspective to the Memorial Fund's grantmaking strategies, working closely with community stakeholders and strategic partners.

[Learn More About the speakers.](#) Registration is required.

*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

[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 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

[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

[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)

[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.

[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**.

MCQST Summer Bachelor Program, August 3-30, 2024 - Munich, Germany. Application deadline **January 31, 2024**.

2024 Fall Meeting of the APS Division of Nuclear Physics, October 6-10, 2024 - Boston, MA.



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