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Yale *Physics*



Week of October 1-7, 2023

Events

Monday, October 2

- 3:30 pm **Physics Club:** *Department Welcome and Townhall*, Karsten Heeger, Yale, SPL 57 + [zoom](#), password: 595687.
- 3:30 pm **School of Engineering & Applied Science:** *Dean's Invited Speakers*, C.C. Wei, Taiwan Semiconductor Manufacturing Co. in conversation with Gina Raimondo, U.S. Secretary of Commerce, YSB Marsh Lecture Hall. [Register here](#).
- 4:00 pm **The Franke Program in Science and the Humanities:** *The Foundation of the Linguistic Society of America in an Age of 'Scientific Racism'*, Margaret Thomas, Boston College, Luce 203. [Speaker information](#).

Tuesday, October 3

- 3:00 pm **Special Solid State & Optics Seminar:** *Building future nanoelectronics from carbon, atom by atom*, Dr. Peter H. Jacobse, University of California, Berkeley, ML 107. Host: Yu He.
- 4:00 pm **Particle Theory Seminar:** *Higher-point lightcone bootstrap in the comb channel: double-twist data and triple-twist anomalous dimensions*, Lorenzo Quintavalle, Université Laval, SPL 48.

Wednesday, October 4

- 10:00 am **Physics & QBio Hagaromo Hour:** *Learning without neurons in physical systems*, Menachem Stern, University of Pennsylvania, Bass 405. Hosts: Michael Abbott, Isabella Graf, and Mason Rouches.
- 10:30 am **The Franke Program in Science and the Humanities:** *Quantum is In. Code is Out!*, Klem Jankiewicz, Designer, Webinar, [register to receive the link](#). Host: Yale Quantum Institute.
- 2:30 pm **School of Engineering & Applied Science, Department of Mechanical Engineering Seminar:** *Broken Symmetries in Living Matter*, Nikta Fakhri, MIT, ML 107. Host: Yimin Luo. Refreshments will be served.

4:00 pm **Department of Mathematics Colloquium:** *Limit measures for topologically and geometrically random surfaces*, Jeremy Kahn, Brown University, KT 219.

Thursday, October 5

1:00 pm **Condensed Matter Theory Seminar:** *Phase transitions out of quantum Hall states in moire materials*, Senthil Todadri, MIT, SPL 51. Host: Meng Cheng.

1:00 pm **NPA Seminar:** *Addressing the Challenges in 21-cm Cosmology using Bayesian Inference and other Data Analysis Techniques*, Michael Wilensky, Manchester University, WL 216. Host: Laura Newburgh.

2:30 pm **Yale Astronomy Colloquium:** *Red Giant Chemistry: Interactions, Interiors, and Galactic Evolution*, Jamie Tayar, University of Florida, KT 509 A& B.

Friday, October 6

11:00 am **Elusives Journal Club:** *Stimulated emission of signal photons from dark matter waves*, Xiran Bai, Yale University, WLC 245. Host: Eleanor Graham. Reading.

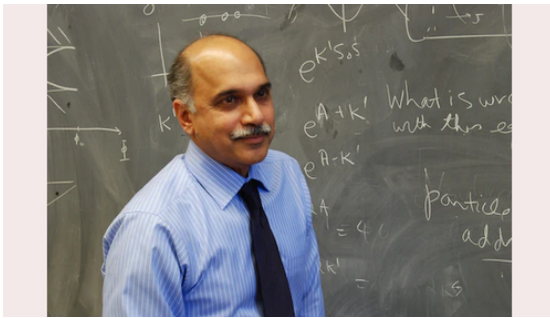
2:00 pm **Special Physics Club:** *2023 Long Range Plan for Nuclear Science*, Gail Dodge, Old Dominion University, SPL 57. Host: Karsten Heeger.

Save the date!

1:00 pm **Yale Library Workshop:** *What Does the OSTP Memo Mean for Your Research?*, Online only, October 27, 2023. Related LibGuide on Open Access.

[More events](#)

News



Shankar appointed to Division of Mathematics & Physical Sciences advisory board

The Division of Mathematics and Physical Sciences, of the Simons Foundation, is pleased to announce the appointment of Ramamurti Shankar to the Scientific Advisory Board.



Kline Tower Dedication Ceremony

On September 22, Physics department staff attended the dedication ceremony for the re-opening of Kline Tower (KT), which was recently renovated to house the astrophysics group and a portion of the particle physics group of the physics department, as well as the departments of astronomy, mathematics, and statistics and data science, and the new Institute for Foundations of Data Science.

Pictured here is Yale Physics professor Sarah Demers, on the physics floor of KT, showing off particle tracks in a cloud chamber. [More photos here.](#)

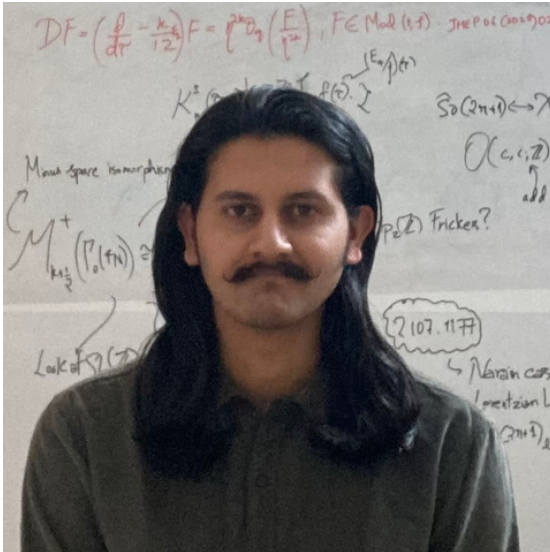
Welcome to the Graduate Class of 2023!

Starting with the August 4th issue of the departmental newsletter, we are featuring brief articles introducing the graduate class of 2023. Look for them in our buildings and let's make them feel welcome.



Sanjana Taneja

I have a strong interest in biological physics. It intrigues me how entities in biological systems coordinate to produce phenomena that have no analog in the inanimate world. I want to explore these intricacies in the context of neural systems; using a physicist's style of inquiry. I had the opportunity to participate in an immersive 10-day meditation course, where I dedicated myself to 10 hours of daily meditation; while completely disconnecting from the outside world.



Naveen Balaji Umasankar

I enjoy working to better understand various aspects of the mathematical structures of conformal field theories (CFTs) using analytic methods to the conformal bootstrap program and investigate what they could teach us about quantum gravity. I am also interested in the classification of the space of rational CFTs using the theory of modular forms, particularly in understanding the intricacies of how insights from topics in number theory and the theory of elliptic curves help provide a better perspective and contextualize the physics. When I'm not doing physics, I spend most of my time playing the guitar, watching movies, and attempting to learn music theory.



Lauren Vannell

I am interested in AMO Physics, Astrophysics and Cosmology. I can play four instruments! I also love drawing with charcoal in my free time.

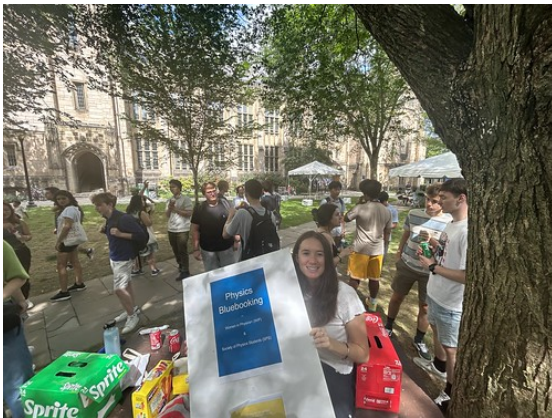


Raffaella Zanetti

I am interested in AMO Physics. I play the cello and like to read and crochet.

[More news](#)

Community



Undergraduate Program Update

On August 29, the Women in Physics (WiP) and the Society of Physics Students (SPS) hosted a Bluebooking event to advise prospective physics majors. Per Elsa Durcan, WiP president, “Barkotel Zemenu, SPS co-president, and I were both very happy with the turnout and the number of freshmen that showed up needing advice about intro physics sequences!”

Climate and Diversity Committee News

Latine Heritage Month

Now through October 15, Yale celebrates Latine Heritage Month, in honor of community members with ancestry from Latin America, inclusive of all races and genders. [Explore the many groups, events, media, and other opportunities](#) that celebrate our colleagues and classmates.

Celebrate Sustainability at Yale

Yale’s annual [Celebrate Sustainability Week](#), taking place Oct. 2–6, will offer a variety of ways to learn about the university’s sustainability efforts — and practical tips for greener living. [Find a full event list here.](#)

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).

Social Media



Opportunities

Faculty Opportunities

No internal open positions at this time.

Faculty position in Radiation and Nuclear Physics - University of Memphis (deadline **October 20, 2023**)

Tenure-track Assistant Professor in Theoretical High Energy Physics – Particle Cosmology - University of Pennsylvania (deadline **November 1, 2023**; expected start date July 1, 2024)

Assistant Professor position in the fields of Neutrino Physics, Particle Astrophysics, Cosmology and Gravitational Waves - UC Riverside (deadline **November 19, 2023**)

Tenure-track faculty position in Quantum Condensed Matter Theory- Brown University (application deadline **November 30, 2023**)

Tenure-Line Faculty hire in Experimental Dark Matter/Neutrinos- Brown University (application deadline **March 15, 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

Stanford Cancer Imaging Training (SCIT) Program - Stanford University (deadline **October 1, 2023**)

Postdoctoral Research Scientist, Experimental High Energy Physics - Yale University (deadline October 13, 2023)

Dicke Fellow - Princeton University (deadline **October 20, 2023**)

2024 Yale Quantum Institute Postdoctoral Fellowship - Yale University, YQI (deadline October 29, 2023 at 11:59pm ET)

2024 Yale Prize Postdoctoral Prize Fellowship - Yale University (deadline October 31, 2023)

Yale Center for Astronomy & Astrophysics Postdoctoral Fellowship - Yale University (deadline November 3, 2023)

2024 Postdoctoral Fellowships - Perimeter Institute (deadline **November 6, 2023** for positions to start in September 2024.)

Linus Pauling Postdoctoral Fellowship- Pacific Northwest National Laboratory (deadline **November 9, 2023**)

Yale Mossman Fellowship - Yale University (deadline November 15, 2023)

Edwin Thompson James Fellowship- Washington University in St. Louis (deadline **November 15, 2023**)

Postdoctoral Associate in Experimental Cosmology - Yale University (deadline December 15, 2023)

Postdoc Position in Theoretical Condensed Matter and Computational Biophysics - UC Riverside

Experimental Postdoctoral Position in Electron-Positron Plasmas - UC Riverside

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)**)

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

The Department of the Airforce Science & Technology Fellowship Program

Undergraduate Student Opportunities

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)

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

General Grants and Fellowships

NASA Connecticut Space Grant Consortium - Fall Request for Proposals (deadline October 13, 2023, at 11:59pm)

Meetings, Schools, Workshops, and Conferences

American Physical Society Webinars - PULSE Undergraduate Research Webinar: Possible Research Areas, September 27, 2023 @ 10:00am ET.

[American Physical Society March Meeting 2024](#), March 3-8, 2024 - Minneapolis, MN and virtual (dates to be announced). American Physical Society March Meeting is a scientific research conference that brings together more than 13,000 physicists from around the world to showcase their work, connect with others, and discover groundbreaking physics research. Join us in 2024 for an extra special week as we celebrate the 125th anniversary of APS.

Registration opens November 2023. [Submit your abstract through October 20, 2023.](#)

[American Physical Society Conferences for Undergraduate Women in Physics \(CUWiP\)](#), January 19-21, 2024 - nearest locations are: Boston University & Wellesley College; City University of New York, Graduate Center; or United States Military Academy, West Point. The 2024 Millie Dresselhouse CUWiP Keynote Speaker is [Dr. Jocelyn Bell Burnell](#), Royal Society of Edinburgh. **Applications close October 23, 2023.**



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For further information email [Daphne Klemme](#). Please click on the links to [contribute to the newsletter](#) or [update alumni information](#).

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