

Yale Physics



Week of September 17-23, 2023

Events

Monday, September 18

3:30 pm **Physics Club.** *How does a quantum object gravitate?*, Markus Aspelmeyer, University of Vienna, SPL 37 + zoom password: 595687. Host: Nir Navon. Refreshments will be served before the talk.

Tuesday, September 19

4:00 pm **Particle Theory Seminar:** *What is crossing symmetry, and what did we think it was?*, Sebastian Mizara, IAS Princeton, SPL 48. Hosts: Bianka Meczaj & Petar Tadic.

4:00 pm **Nyquist Lecture in Electrical Engineering:** *A journey full of challenges: How a poor university sparked the LED revolution and the continual impact in the future smart society*, 2014 Nobel Physics Laureate Hiroshi Amano, Nagoya University, Davies Auditorium.

4:00 pm **Department of Chemistry Biochemistry Seminar:** *The Folding and Function of Proteins with a Complex Topology*, Eleanor Haglund, University of Hawaii at Manoa, SCL 110. Host: Caitlin Davis.

Wednesday, September 20

10:00 am **Physics & QBio Hageromo Hour:** *Fluctuation Dynamics of Inhomogeneous Active Polymers*, Andriy Goychuk, MIT, Bass 405. Hosts: Michael Abbott, Isabella Graf, and Mason Rouches.

3:45 pm **Yale School of Engineering & Applied Science Seminar:** *Equilibrium Computation and Machine Learning*, Costis Daskalakis, MIT, Davies Auditorium.

4:00 pm **Molecular, Cellular and Developmental Biology Seminar:** *A topological view of lipid metabolism and metaphase cortex patterning in mast cells*, Min Wu, Yale University, Bass 305. Hosts: Anna Pyle and Josh Gendron.

4:00 pm **Earth & Planetary Sciences Colloquium:** *The GeoSPACE Project and the Impact of Accessible, Inclusive Field Courses on Student Success*, Anita Marshall, University of Florida, Gainesville, KGL 123.

4:00 pm **Department of Mathematics Colloquium:** *Postdoc Intro Talks* , Ebru Toprak and Sudhadip Dey, Yale University, KT 219.

Thursday, September 21

1:00 pm **Condensed Matter Theory Seminar:** *Chiral anomaly for quantum anomalous phases in twisted transition metal dichalcogenides*, Valentin Crepel, Flatiron Institute, SPL 51. Host: Meng Cheng.

1:00 pm **NPA Seminar:** *Exploring the proton structure: from partons to strong gauge fields*, Yacine Mehtar Tani, Brookhaven National Laboratory, WL 216.

2:30 pm **Yale Astronomy Colloquium:** *Galaxies are for Everybody* , Ryan Trainor, Franklin & Marshall College, KT 509 A & B.

4:00 pm **Yale Quantum Institute Event:** *From Dos to Qiskit - Model Research Collection Opening*, 2023-2024 Model Research Collection in Bass Library, Bass Library - Courtyard Level.

Friday, September 22

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.

12:00 pm **Yale Quantum Institute Colloquium:** *Quantum optical control of levitated solids*, Markus Aspelmeyer, University of Vienna, YQI Seminar Room. Host: Jack Harris.

3:30 pm **Kline Tower Opening Celebration**, KT courtyard. The Yale Physics Department is invited to celebrate the opening of the renovated Kline Tower (KT). The dedication and ribbon cutting will take place at 3.30pm in the courtyard outside KT. Following the dedication ceremony there will be self-guided tours throughout the building. You can enjoy refreshments on different floors, views of Science Hill, and meet our colleagues in KT.

Save the Date

Sept. 27 **Physics Department Welcome Reception.**

[More events](#)

News



Congratulations Dr. Vartak

On September 6, 2023, Sohan Vartak successfully defended the thesis “Nuclear Spectroscopy of Heavy Nuclei in the Shell Model Monte Carlo Method” (advisor: Yoram Alhassid).



Brown and Mingarelli receive Public Voices Fellowships

Charles Brown, Assistant Professor of Physics and Chiara Mingarelli, Assistant Professor of Physics have received 2023-2024 Public Voices Fellowships hosted by the Women Faculty Forum (WFF). They are part of the 2023-2024 cohort which includes 20 faculty members from across the university.

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.



Mahathi Narayanaswamy

I am interested in Biomechanics, Bioacoustics and Self-organizing systems. I am also interested in learning about research in other areas in physics. During my undergraduate program I have worked on a project on Magnetic Monopoles and Talbot Effect in Water Waves. Additionally, I find Astronomy and Astrophysics very exciting. Outside physics my primary interests are in wildlife and ecology (almost as a second research interest) and I have been a naturalist for nearly 10 years now. In general, I enjoy spending time outdoors on walks, cycle rides and treks. I also enjoy playing sports and I hope to learn to climb.



Brett Oertel

I am interested in CFT, String Theory, and Geometry. Outside of physics I enjoy powerlifting and playing video games.



Chin Yuan Ong

I am interested in Biophysics. I am from Malaysia and completed my undergraduate degree in Hong Kong. Coming from a multicultural community, I can speak 5 languages. I am passionate in music and cooking.



Evan Papoutsis

I am interested in Quantum Information, Biophysics, and Condensed Matter. Outside of physics I love hiking, reading, and baking.

[More news](#)

Community

Climate and Diversity Committee News

[Making Visible the Invisible – Understanding Intersectionality](#) is the recently released 2021-2022 report from the U.S. Congress' Committee of Equal Opportunities in Science and Engineering (CEOSE) to advise the National Science Foundation (NSF) on policies and programs that encourage full participation by women, historically underrepresented racial and ethnic populations and persons with disabilities within all levels of the United States' science, technology, engineering, and mathematics (STEM) enterprise. Links follow for both the [summary](#) and the [full report](#).

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

Outreach



Yale Physics Outreach Committee Invitation

Are you interested in bringing physics to your community? Our department has formed an outreach committee and invites any member of our community who is interested in outreach to join the committee, or to contact us to discuss your ideas and plans. Please also stay tuned for updates to our [outreach webpage!](#)

Committee Members: Stephen Irons (chair), Charles Brown, Eduardo da Silva Neto, Laura Havener, Caitlin Hansen, Theophilus Human, Victoria Misenti, Paul Noel, Rona Ramos.

COVID-19 Update

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

Opportunities

Faculty Opportunities

No open internal positions at this time.

[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**)

[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**)

[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**)

[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**)

[Edwin Thompson James Fellowship- Washington University in St. Louis](#) (deadline **November 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.**



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

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