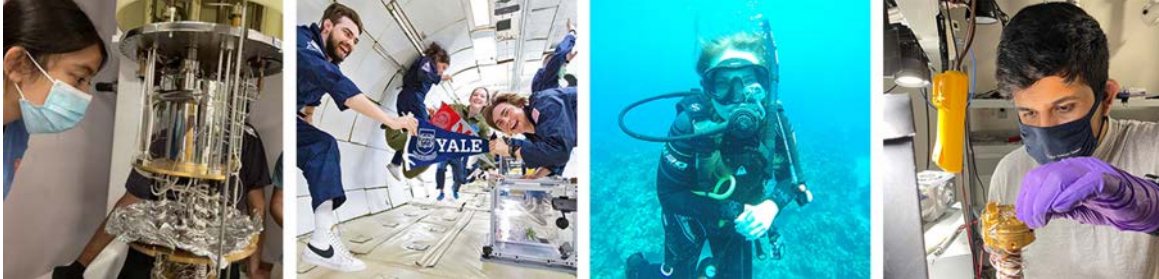


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Yale Physics



Friday, July 21 & Friday, July 28, 2023

Events

Monday, July 24

- 1:00 pm **AMO Seminar:** *Many-body physics in a trap array of silica particles: Non-reciprocal interactions and collective mechanical phases*, Uros Delic, University of Vienna, SPL 51 + zoom. Host: David Moore.
- 2:00 pm **NPA Seminar:** *ALPHA – A Search for the Post-Inflation Axion*, Karl van Bibber, University of California, Berkeley, WL 216.

Tuesday, July 25

- 1:00 pm **Special Solid State & Optics Seminar:** *Photonics for AI: Reconfiguring Optical Computation with Complex Media for Machine Learning*, Fei Xia, École Normale Supérieure, BCT 227 + zoom (password: 345945). Host: Hui Cao.
- 2:00 pm **NPA Seminar:** *Searching for invisible axion dark matter with an 18T magnet haloscope*, Jonghee Yoo, Seoul National University, WL 216.

Thursday, July 27

- 1:00 pm **Condensed Matter Theory Seminar:** *Josephson Tunneling at Odd Parity*, Manuel Houzet, CEA Grenoble, SPL 51. Host: Leonid Glazman.

Monday, July 31

- 12:30 pm **Dissertation Defense:** *Investigating Galaxy Morphology in Large Surveys Using Novel Machine Learning Frameworks*, Aritra Ghosh, Department of Astronomy, Yale University, Location WTS A-51 + zoom. Thesis Advisor: Meg Urry.

Thursday, August 3

- 10:00 am **Dissertation Defense:** *Title - To Be Announced*, Yiqi Wang, Department of Applied Physics, Yale University, YQI Seminar room. Thesis Advisor: Jack Harris.

11:00 am **AMO Seminar:** *Tailored Spatial Correlations in Entangled Twin Beams of Light*, Gaurav Nirala, University of Oklahoma, SPL 51. Host: Jack Harris.

Friday, August 4

2:00 pm **Dissertation Defense:** *Error Detected Operations for Bosonic Quantum Information Processing*, James Teoh, Yale University, YQI Seminar room. Thesis Advisor: Robert Schoelkopf.

Save the date

Wednesday, January 10 - Friday, January 12, 2024

All day **Yale Quantum Institute Event:** *CircuitQED @ 20*, A celebration of the 20 years of circuit quantum electrodynamics. 2024 will mark the 20-year anniversary of the publication "Strong coupling of a single photon to a superconducting qubit using circuit quantum electrodynamics" in Nature in 2004. Local organizers are: Florian Carle, Luigi Frunzio, Steve Girvin, and Racquel Miller. For all questions relevant to this event, please email quantum@yale.edu. More information to come.

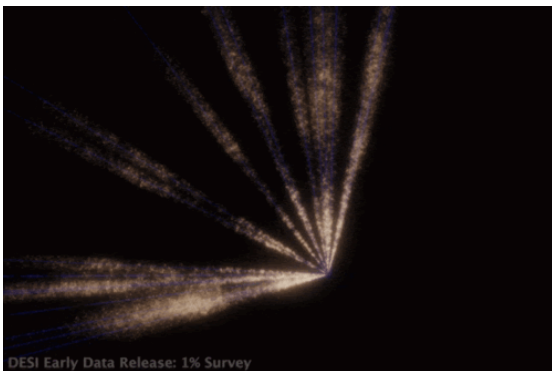
[More events](#)

News



da Silva Neto, research in the news

A Yale-led team of physicists has discovered a circular pattern in the movement of electrons in a group of quantum materials known as "strange metals." "Strange metal," that rogue phenomenon of the electrical realm, just became a little less enigmatic..



Yale Fiberview Camera contributes to dark energy survey

The Dark Energy Spectroscopic Instrument (DESI) is designed to create a 3-D map of the sky that will allow researchers to measure the effects of dark energy on the expansion of the universe. The Yale Fiberview Camera is an integral part of the efficiency and precision of DESI.



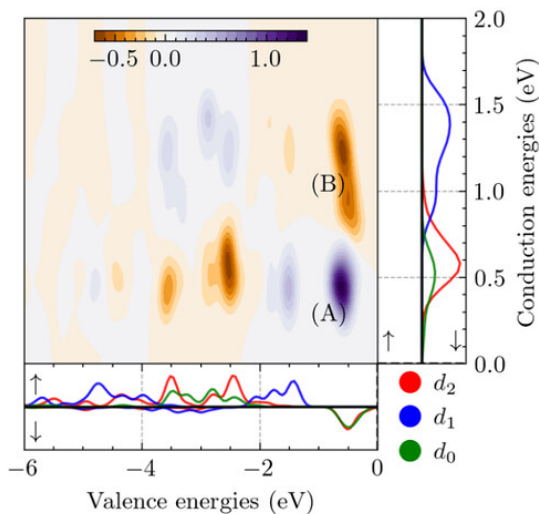
Welcome Prakhar Garg

Welcome to Prakhar Garg who comes to us from Stony Brook University as a research scientist working with Helen Caines in Wright Lab West. Garg's research interest is in Gaseous detectors and Photon detectors. He is involved in several R&D projects with a focus on detectors for the Electron Ion Collider (EIC) soon to be under construction at Brookhaven National Laboratory.

[More news](#)

Community

Social Media



Sohrab Ismail-Beigi: Figure from recent publication

Figure 5 from Piezoelectric ferromagnetism in two-dimensional materials via materials screening by Kayahan Saritas and Sohrab Ismail-Beigi, October 2022, [full article](#).

Climate and Diversity Committee News

2023 School Supply Drive, July 17th - August 18th

Support the 2023 School Supply Drive that is taking place through Friday, August 18th. Needed school supplies include: pencils, erasers, 12" rulers, glue, composition notebooks, backpacks, binders, highlighters, markers, crayons, folders, and pens.

Donations will be distributed in partnership with the Boys & Girls Club of Greater New Haven on Thursday, August 24th from 4-6pm. Interesting in volunteering? Contact tanya.colon@yale.edu.

Click the links below to get started:

[Drop off locations](#) & [Amazon wish 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

COVID-19 update

Yale COVID-19 Information - including updates on testing and vaccinations.

Opportunities

Faculty Positions

[Associate/Full Professor, Experimental Atomic, Molecular, and Optical Physics](#) - Yale University

[Assistant Professor Position in Experimental Quantum Information Science](#) - NYU (anticipated start date of **September 1, 2023**)

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

Postdoctoral Positions

[Postdoctoral Associate Position in Theoretical Physics](#) - Yale University

Graduate Student and Postdoc Research

[Dudley Observatory Astronomer](#) - Siena College

[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))

Undergraduate Research

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)

Meetings, Schools, Workshops, and Conferences

[XVIII International Conference on Topics in Astroparticle and Underground Physics 2023](#), August 28-September 1, 2023 - University of Vienna, [conference fees and registration](#) (full fee deadline **August 15, 2023**). *Note: David Moore is an invited speaker.*

[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 open on August 28, 2023

Grants, Fellowships and Scholarships

Graduate

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



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For further information, or to contribute to the newsletter, please send email to [Daphne Klemme](#). Alumni can add/update their information by [clicking here](#).

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