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Yale Physics



Week of April 7-13

Events

Monday, April 8

- 3:30 pm **No Physics Club This Week**
- 4:00 pm **Molecular Biophysics & Biochemistry Seminar:** *Imaging the T Cell Signal Network in Action: From Single Molecular Binding Events to LAT Condensates and Calcium Spikes*, Jay Groves, University of California, Berkeley, Bass 305.

Tuesday, April 9

- 1:30 pm **Cosmology Seminar:** *Gravitational-wave signatures of supermassive black holes*, Gabriela (Gabi) Sato-Polito, Johns Hopkins University, KT 401. Host: Xinyi Chen.
- 3:00 pm **WIDG Seminar:** *Weakly supervised training for optimal transport pileup mitigation strategies at hadron colliders*, Nathan Suri, Yale University, WL 216. Host: Youqi Song.
- 4:00 pm **Particle Theory Seminar:** *Topological Interfaces and Gauging Generalized Symmetries*, Yifan Wang, New York University, SPL 51.

Wednesday, April 10

- 1:00 pm **Applied Physics Seminar:** *Sensing Dark Matter with Superfluid Helium*, John Davis, University of Alberta, ML 107 + zoom (password: 194497). Host: Jack Harris.
- 4:00 pm **Molecular, Cellular and Developmental Biology Seminar:** *Developmental 'capacitance' and the generation of form and repair*, Matthew Harris, Harvard University and Boston Children's Hospital, Bass 305. Host: Scott Holley.
- 4:00 pm **Department of Mathematics Colloquium:** *Title to be announced*, Mikhail Lyubich, Stony Brook, TBD.

Thursday, April 11

- 1:00 pm **Condensed Matter Theory Seminar:** *Fuzzy Sphere regularization of 3D CFTs*, Yin-Chen He, Perimeter Institute, SPL 51.

- 1:00 pm **Nuclear, Particle, Astrophysics (NPA) Seminar:** *Probing the $S(\sigma)$ -8 tension at the onset of stage-IV cosmic surveys*, Nickolas Kokron, Princeton University, WL 216. Host: Max Silva-Feaver.
- 1:00 pm **Yale School of Engineering. Dean's Special Speaker:** *New Physics in Driven Quantum Materials*, Andrea Cavalleri, Max Planck Institute, YQI Seminar room + zoom (password: 983456). Host: Max Silva-Feaver.
- 2:30 pm **Yale Astronomy Colloquium:** *Title to be announced*, Tim Bedding, University of Sydney, Australia, KL 205.

Friday, April 12

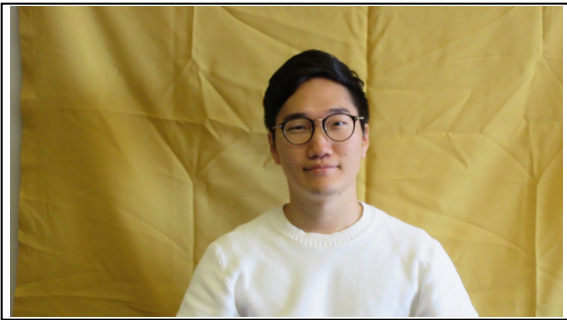
- 9:30 am **Dissertation Defense:** *Towards a Bose-Einstein Condensate of SrF molecules*, Varun Jorapur, Yale University, SPL 51. Thesis advisor: Steve Lamoreaux.
- 11:00 am **Elusives Journal Club:** *Topics in modern physics*, Claire Laffan, Yale University, WLC 245. Host: Xiran Bai and Eleanor Graham.
- 9:30 am **Dissertation Defense:** *Stability of a Three-Component Fermi Gas*, Grant Schumacher, Yale University, SPL 63. Thesis advisor: Nir Navon.

Saturday, April 13 - Sunday, April 14

- 8:00 am - 5:00 pm **Yale Quantum Institute Event:** *[QWAWU] |Y> Quantum 2024 - Hackathon*, Registration closes April 8, 2024.

[More events](#)

News



Congratulations Dr. Kidae Shin

On April 3, Kidae Shin successfully defended the thesis “MBE-grown Thin Films for Novel Applications: From Single Atomic Layer Ferroelectrics to Isotopically Pure Quantum Memories” (advisor: Charles Ahn).



Welcome Jake Schaffer, Postgraduate Associate

Yale Physics welcomes Jake Schaffer, postgraduate associate. Schaffer is a member of Meg Urry’s group in the field of astrophysics & cosmology.



From Prospect St. to the 'path of totality,' Yalies have eclipse covered

Weather permitting, visitors to Yale's Leitner Family Observatory and Planetarium on Monday, April 8 will see the moon cover 91% of the sun. Yale Physics professor Meg Urry will be in Texas to lead a Yale alumni eclipse-viewing trip.

[More news](#)

Community

Climate and Diversity Committee News

WISAY Annual Research Chats Applications OPEN

Apply to present at the research chats [here](#).

This spring, WISAY will hold our annual research chats! This is an opportunity for researchers (from post-grad to post-doc) to share their scientific work, career path, and insights with an undergraduate audience. There are two different types of chats: poster presentations and keynote speakers (15-30 minute talks). We welcome applicants from any gender minority background, and minorities and underrepresented populations in STEM are especially encouraged to apply!

The event will be held during the week of **April 29th—May 2nd, 2024**, with flexibility to accommodate speakers. The location is TBD, but will be on Yale's campus. Applications are due by **April 14th, 2024**. Please contact us [here](#) if you have any questions.

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



GSI Call for Volunteers

Yale Girls' Science Investigations' "The World of Sound" will be held **April 20th; 9 a.m.-1:30 pm**. Volunteers are needed to help middle schoolers learn all about the physics of sound, participate in hands-on activities, and watch a demo show. Volunteers will be trained on April 19th (dinner included). [Sign up to volunteer](#).

Opportunities

Faculty Opportunities

[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

[NRC Research Associateship Programs](#) - National Academies of Sciences, Engineering, and Medicine (applications open March 1, 2024, deadline **May 1, 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

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

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

[Research Position Available in Hatzios Lab](#) - Yale Department of Molecular, Cellular and Developmental Biology.

Meetings, Schools, Workshops, and Conferences

[Asian Americans and STEM conference](#), May 10, 2024 - Yale University. [Register now](#).

[American Physical Society 55th Annual Meeting of the APS Division of Atomic, Molecular and Optical Physics](#), June 3-7, 2024 - Fort Worth, TX. Early registration open until **May 3, 2024**.

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



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