



Welcome back!

*First Physics Club
Academic Year 2021-2022*

Karsten Heeger, Chair



Building for the Future



May 2021

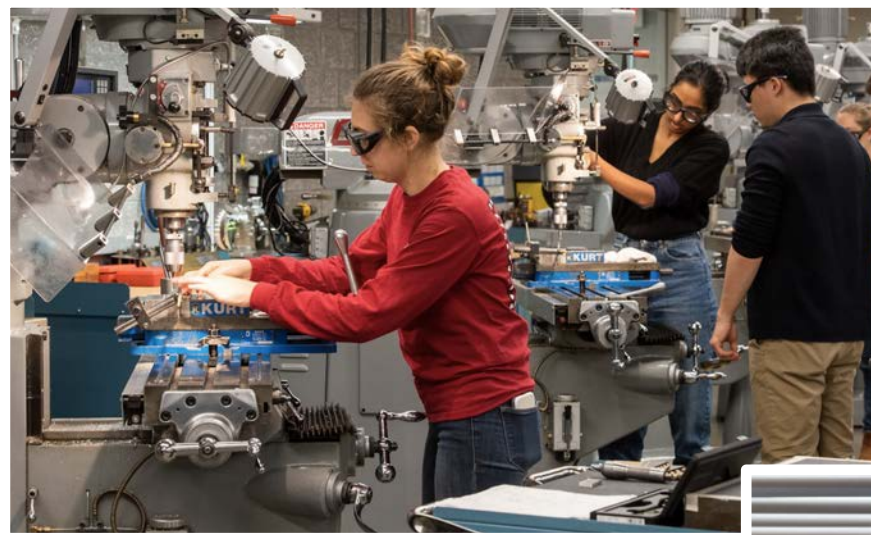
Physics in 2020



Physics in 2021



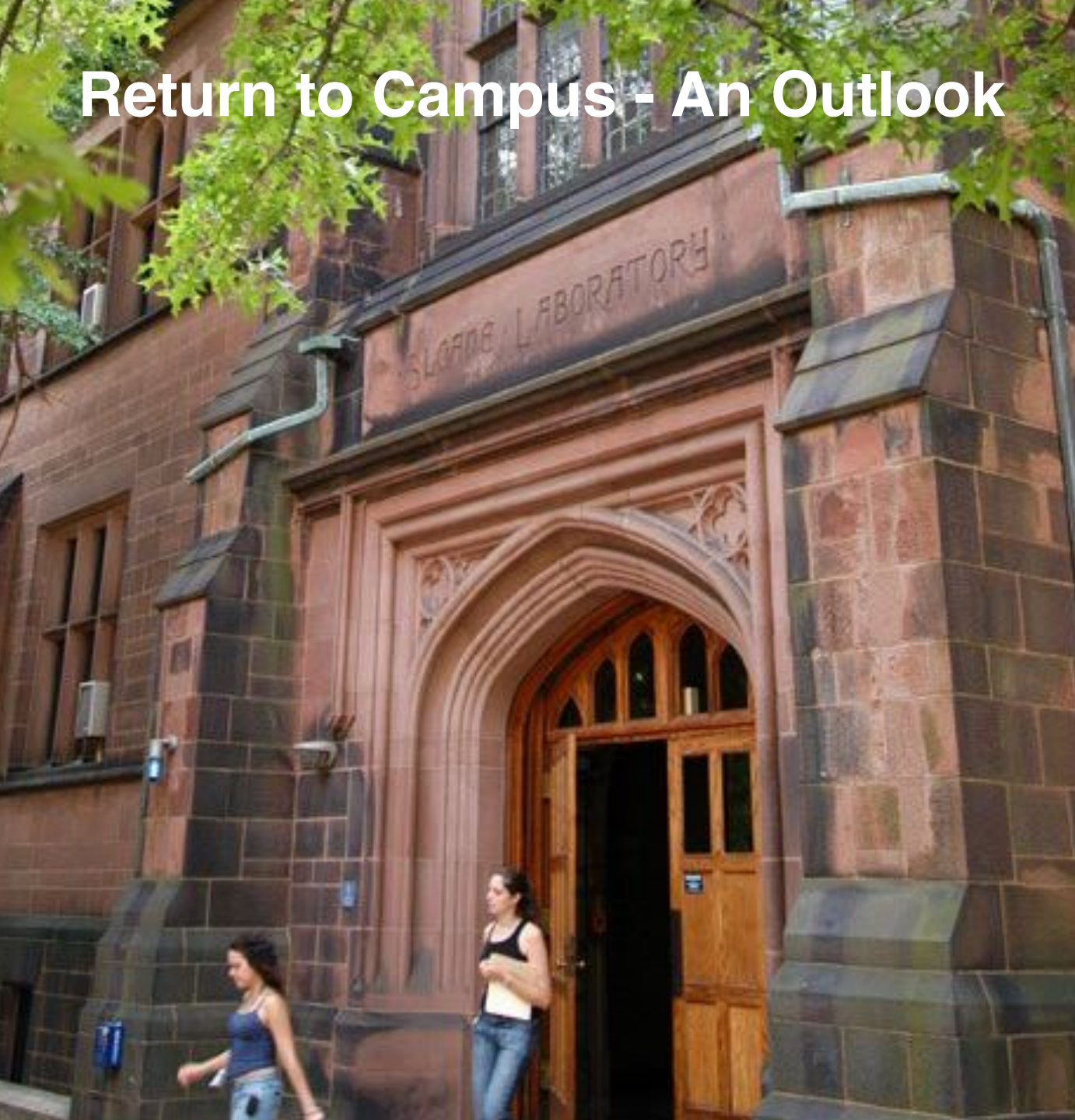
Yale Physics Department



Reconnecting and rebuilding our community

Yale *Physics*

Return to Campus - An Outlook



New faculty, students, and staff

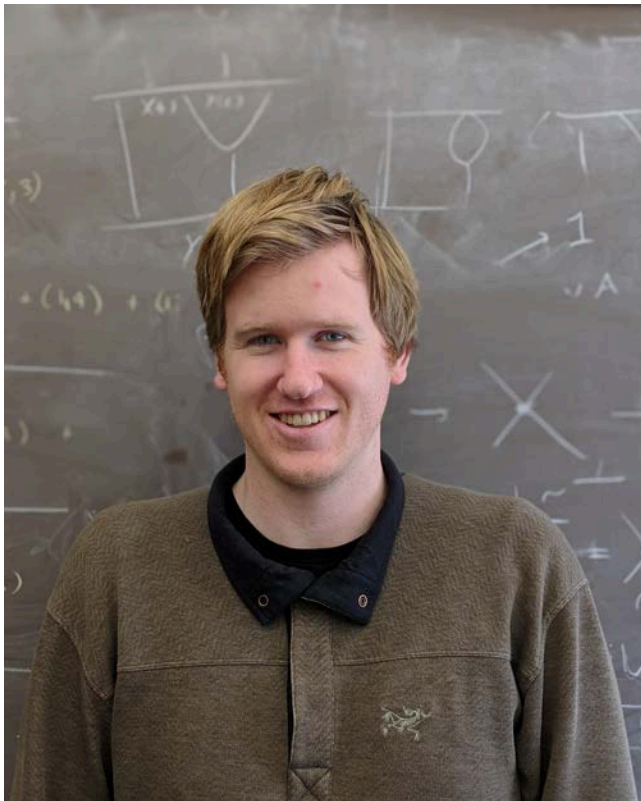
Accomplishments in 2020-2021

Institutes and New Spaces

Science Initiatives

Strategic Planning

Welcome to New Faculty



Ian Moul

Assistant Professor of Physics

Particle Theory

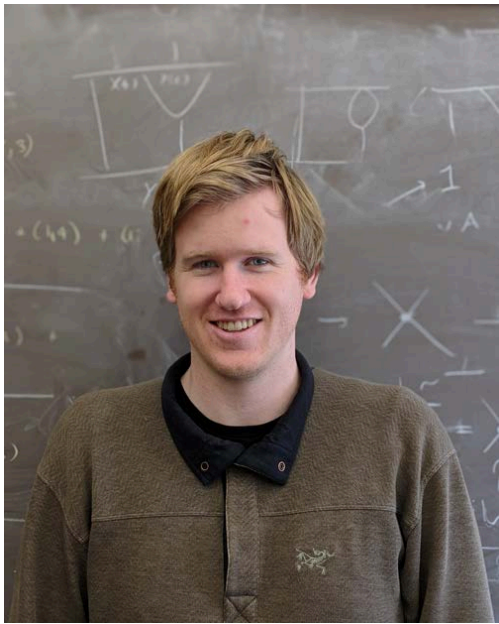


Jet Substructure: Peeking inside jets for clues!

A 3D visualization of a jet substructure. A blue cone-shaped volume contains a dense field of yellow lines radiating from a central point. A pink triangle is overlaid on the visualization, with vertices labeled $\mathcal{E}(\vec{n}_1)$, $\mathcal{E}(\vec{n}_2)$, and $\mathcal{E}(\vec{n}_3)$. The background is black with some blue and green elements.

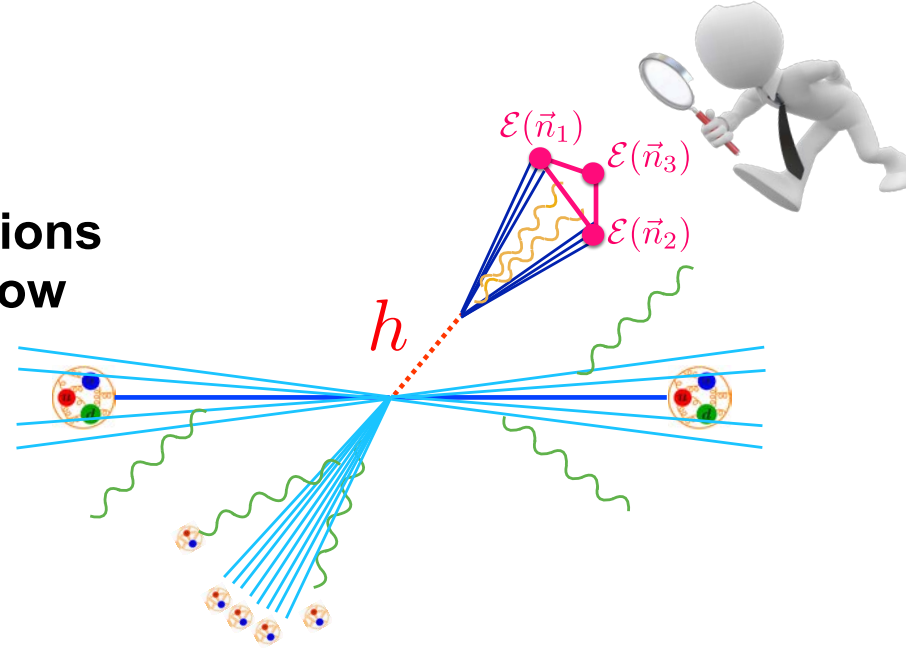
$\mathcal{E}(\vec{n}_1)$
 $\mathcal{E}(\vec{n}_2)$
 $\mathcal{E}(\vec{n}_3)$

<https://www-theory.lbl.gov/~ianmoul/>



Jet Substructure:

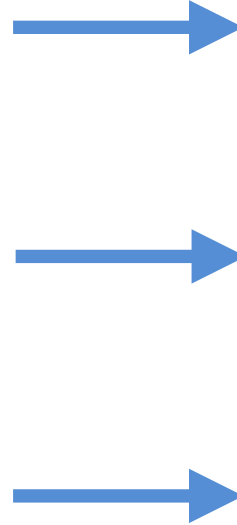
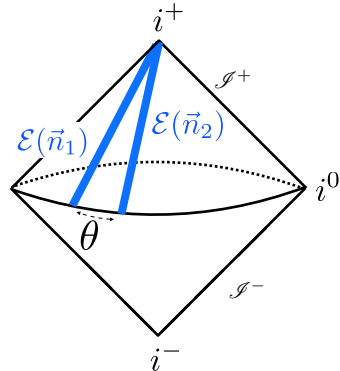
Identify microscopic interactions using macroscopic energy flow



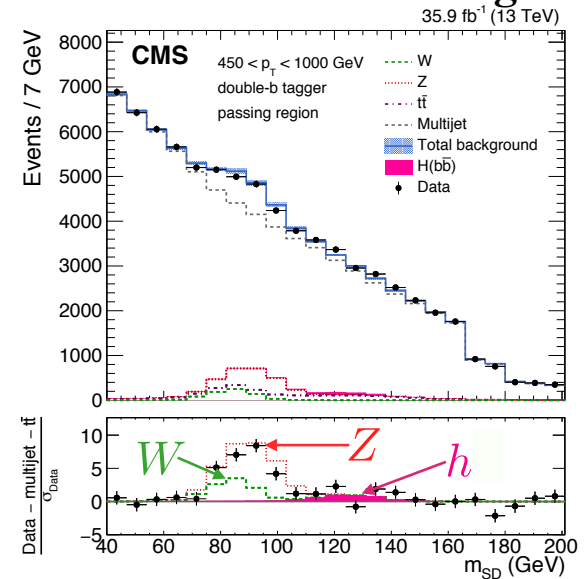
Exciting Interface Between Theory and Experiment!

Field Theory Developments

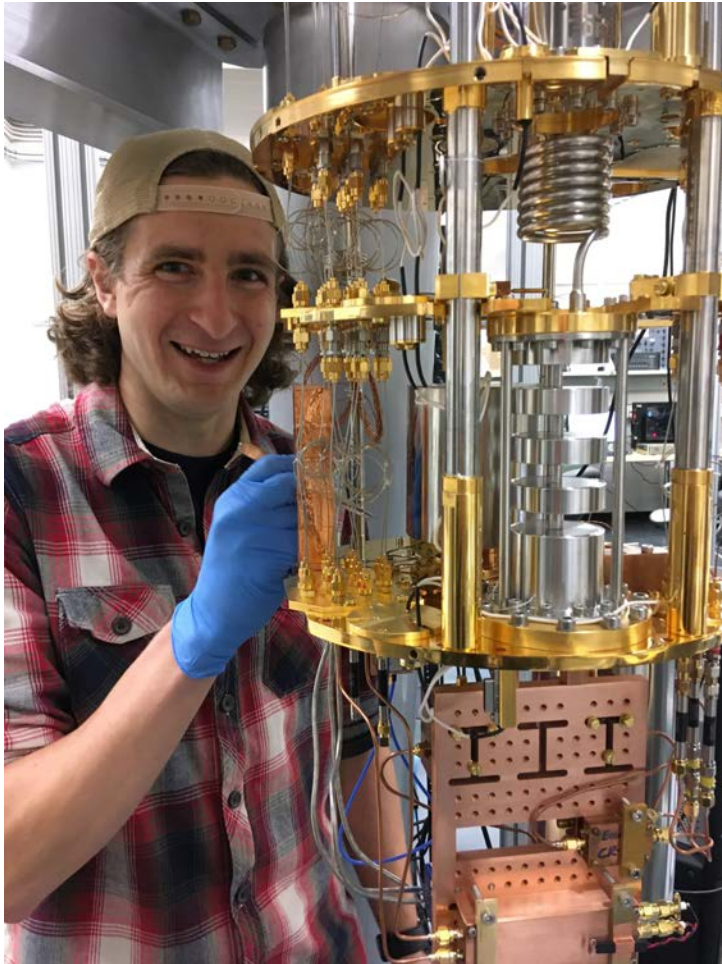
$$\begin{aligned}
 & \frac{1+u+v}{2uv}(1+\zeta_2) - \frac{1+v}{2uv} \log(u) - \frac{1+u}{2uv} \log(v) \\
 & - (1+u+v)(\partial_u + \partial_v)\Phi(z) + \frac{(1+u^2+v^2)}{2uv}\Phi(z) + \frac{(z-\bar{z})^2(u+v+u^2+v^2+u^2v+uv^2)}{4u^2v^2}\Phi(z) \\
 & + \frac{(u-1)(u+1)}{2uv^2}D_2^+(z) + \frac{(v-1)(v+1)}{2u^2v}D_2^+(1-z) + \frac{(u-v)(u+v)}{2uv}D_2^+\left(\frac{z}{z-1}\right)
 \end{aligned}$$



Novel Search Strategies



Welcome to 2021 Mossman Fellow



Justin Lane

Ph.D. in Physics, 2021 (MSU)

Background:

- Main work: studying interaction of superconducting quantum circuits with superfluid helium and surface acoustic waves (SAWs)
- Earlier work: studying interaction of SAWs with two dimensional electron systems (graphene)

Main project at Yale:

- “Membrane-in-the-middle” cavity optomechanics
- Non-hermitian dynamics near higher-order exceptional points

<https://physics.yale.edu/yale-mossman>

Welcome to the 2021 Graduate Students



Braedyn Au (University of Calgary),
Maria Eduareda Belota Moreno (Amherst College),
Naomi Brandt (Mount Holyoke College),
Sara Butler (Bucknell University),
Kangle Cai (Nanjing University),
David Carcamo (Johns Hopkins University),
Katie Chang (University of Virginia),
Harper Cho (NYU-Abu Dhabi),
Evan Craft (Dartmouth College),
Allison Culbert (Tufts University),
Isaque Dutra (MIT),
Naomi Gluck (SUNY, Stony Brook),
Eleanor Graham (MIT),
Songtao Huang (Nanjing University),
Rohin McIntosh (Princeton University),
Toni Montalva (UC-Riverside),
David Nguyen (University of Southern California),
Xiaowei Ou (University of Science and Technology
of China),

Welcome to the 2021 Graduate Students



Xiaoyi Ouyang (Peking University),
Joy Pajarla (Lewis and Clark College),
Gregory Penn (Temple University),
Mengwen Shi (University of Maryland, College Park),
Cassady Smith (Whittier College),
Sylvi Stoller (SUNY, Stony Brook),
David Su (UCLA),
Andrew Tamis (Pennsylvania State University),
Yarone Tokayer (Columbia University),
Yu-Han Tseng (National Taiwan University),
Mira Varma (University of Connecticut),
Molly Watts (Columbia University),
Sierra Weyhmiller (University of Notre Dame),
Angela White (Brown University),
Sven Witthaus (UC-Santa Barbara),
Lihao Yan (University of Notre Dame)



Yale Physics Graduate Program

People

faculty (primary)	35
faculty (secondary)	24
grad students (physics only)	132

Median time to graduation 6.2 yrs

Diverse interests/ interdisciplinary opportunities

applied physics
astronomy/astrophysics
biological physics/systems biology
materials science

Recent Alumni



<https://physics.yale.edu/people/alumni>

Yale *Physics*

Our Graduate & Undergraduate Program Teams

Graduate Program



Stacey Watts
Graduate Registrar



Rona Ramos
Graduate Program
Coordinator



Bonnie Fleming
DGS

Undergraduate Program



Daphne Klemme
Undergraduate Registrar



Nikhil Padmanabhan DUS

Welcome to New Staff!

Operations Manager



Candy-Ann Francis

Chair's Assistant



Vanessa Wooley

Administrative Staff



Taylor Dunningham

Yale Physics Staff Anniversaries



PAUL NOEL

Instructional Support Specialist

5 Years



GERIANA VAN ATTA

Senior Administrative Assistant

5 Years



VICTORIA MISENTI

Program Manager

15 Years



CINDY CONFORTE

Financial Assistant

20 years

Yale Physics Staff Anniversaries



STEPHEN IRONS

Manager of Instructional Labs,
Lecturer in Physics

20 Years



RONA RAMOS

Graduate Services Coordinator,
Lecturer in Physics

20 Years



KIMBERLY TIGHE

Senior Administrative Assistant

20 Years



LILLIAN WINSTON

Administrative Associate

Retiring in July
(19 Years)

Statement of Principles

Respect

We continually strive to make our department a place that respects people with **diverse** backgrounds and values each others' **creativity**.

Well-being

We commit to actively engage in creating a **supportive** and **safe environment**. Criticism and praise are professional and constructive.

Integrity

We carry out our work with **honesty** and with the **highest standards**. We shall not commit scientific or academic misconduct, defined as plagiarism, fabrication, or falsification.

Community

Our community actively **includes all**, enhancing **collaboration** and promoting our common mission to advance the frontiers of knowledge.

Developed by Climate and Diversity Committee
and Department

<https://physics.yale.edu/statement-principles>

Diversity, Equity, and Inclusion

Statement of Principles

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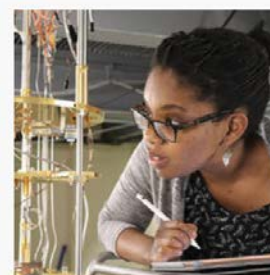
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and Department

<https://physics.yale.edu/statement-principles>



[Research & Discovery](#)



[Community & Belonging](#)



[News & Honors](#)



[Education](#)



[Outreach](#)



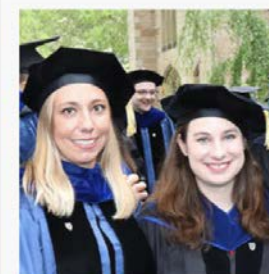
[Get Involved](#)



[Shared Leadership](#)



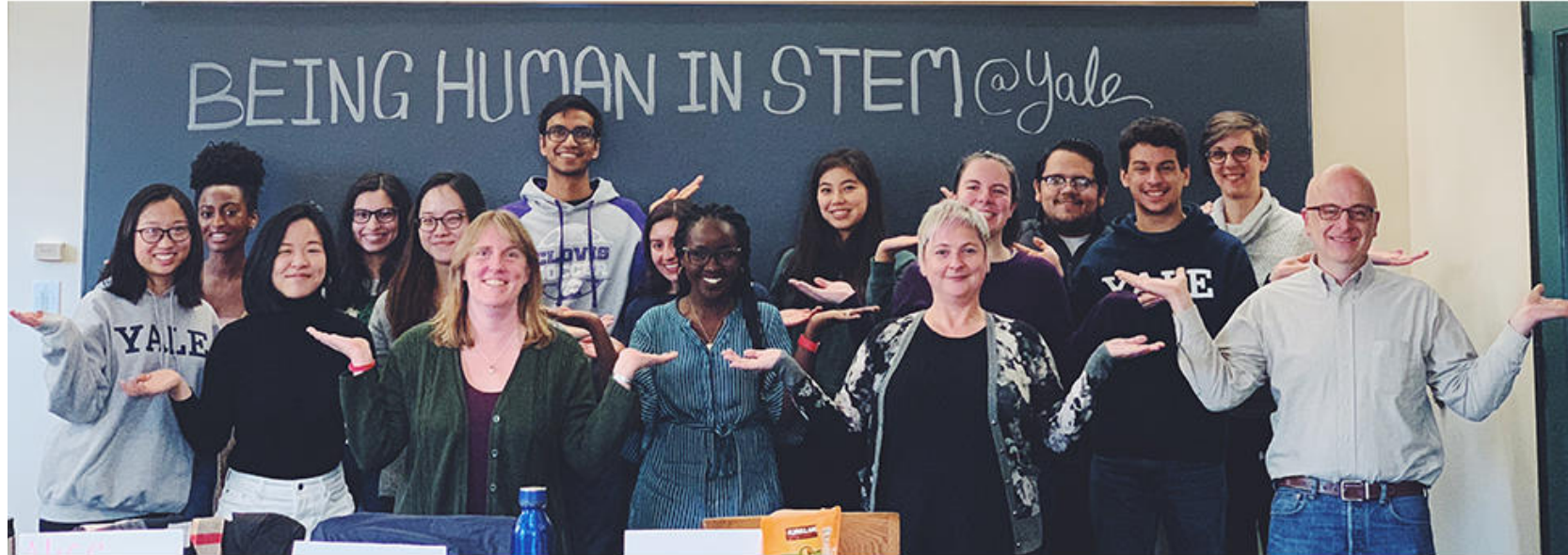
[Advocacy](#)



[Legacy](#)

<https://physics.yale.edu/diversity-equity-and-inclusion>

Climate and Diversity Committee



chair: Dr. Rona Ramos

Mission

To support the Department's goals to provide a safe, supportive, and inclusive environment for every member of our community. We are committed to creating a work place whose core principles are based on diversity, equity, and inclusion for every staff member, student and faculty as we strive to obtain our goals of excellence in research, teaching, and mentoring.

Join the Yale Physics APS-IDEA Network



Yale Physics, is now part of the [American Physical Society Inclusion, Diversity, and Equity Alliance \(APS-IDEA\)](#), Its mission is to empower and support physics departments, laboratories, and other organizations to identify and enact strategies for improving equity, diversity, and inclusion (EDI). It will do so by establishing a community of transformation.

Team consists of [Faculty, Postdocs, Graduate Students, Undergraduate Students and Staff](#)

Early focus on establishing [shared leadership](#)

Building off of department's Climate and Diversity Committee (started in 2014)

We are not alone!

National community to share success stories and ask for advice

DEI Activities for 2020-2021

- **Writing the [DEIAP](#)**, a community effort, vision statement and well defined action items and priorities
- More **holistic graduate admission**, with interviews and no GRE, graduate student participation on grad admissions committees
- **Changes to qualifier and graduate curriculum**. Committee including graduate students, discussion with Larry Gladney and committee
- **Expanding recruiting** to DNP, SACNAS, NSBP
- **Title IX, bystander training** included in new student orientation
- Creation of **Graduate Diversity Fellowship**
- **Graduate Program Coordinator** position created - increased grad communication and support, advising on program updates with a focus on DEI related issues
- **UGSAC - undergrad advisory committee formed** (GSAC formed 2019)
- **Joint Astro-IDEA journal club** forming
- Provided **tutors for 1st year grad courses**

Yale Physics Undergraduate Class of 2021



Amer Al-Hiyasat
Nicholas Archambault
India Bhalla-Ladd
Joe Brownsberger
Shoumik Chowdhury
Caleb Clothier

Rachel Cohen
Vinicius Da Silva
Krish Desai
Noah Goodman
Teddy Hague
Gabe Hoshino

Robert Howard
Brett Jewell
Shantanu Jha
Derek Kuldinow
Claire Laffan
Alex Lathem

Yale Physics Undergraduate Class of 2021



Vuong Mai
Lucy McEwan
Mike Ogego
Kevin O'Neil
Shaun Radgowski

Sajan Ramanathan
Benjamin Rosand
Isabel Sands
Sukhman Singh

Tyler Tavrytzky
Miles Waits
Chris West
Amber Young
Benjamin Zolkiewicz

Yale Physics PhDs

May 2021

Soner Albayrak (David Poland)

Tyler Lutz (John Wettlaufer)

Ryan Petersburg (Debra Fischer)

Mariel Pettee (Sarah Demers)

Daniel Seara (Michael Murrell)

Olivier Trottier (Jonathon Howard)

Christian Weber (Keith Baker)

Sisi Zhou (Steve Girvin)

Yuqi Zhu (David DeMille)

20 PHDs in 2020-2021

December 2020

Stephen Albright (Charles Ahn)

Supraja Balasubramanian (Bonnie Fleming)

Estella Barbosa de Souza (Reina Maruyama)

Joshua Burt (John Murray)

Shany Danieli (Pieter van Dokkum)

Thomas Hays (Michel Devoret)

Judith Hoeller (Nicholas Read)

Scott Jensen (Yoram Alhassid)

William Sweeney (Douglas Stone)

Hao Yan (Simon Mochrie)

Mengzhen Zhang (Douglas Stone)

Phd Recipients May 2021

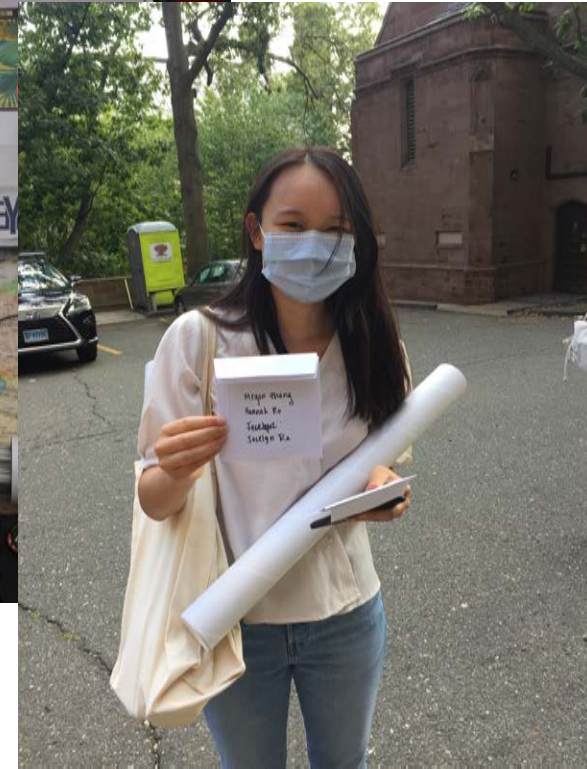
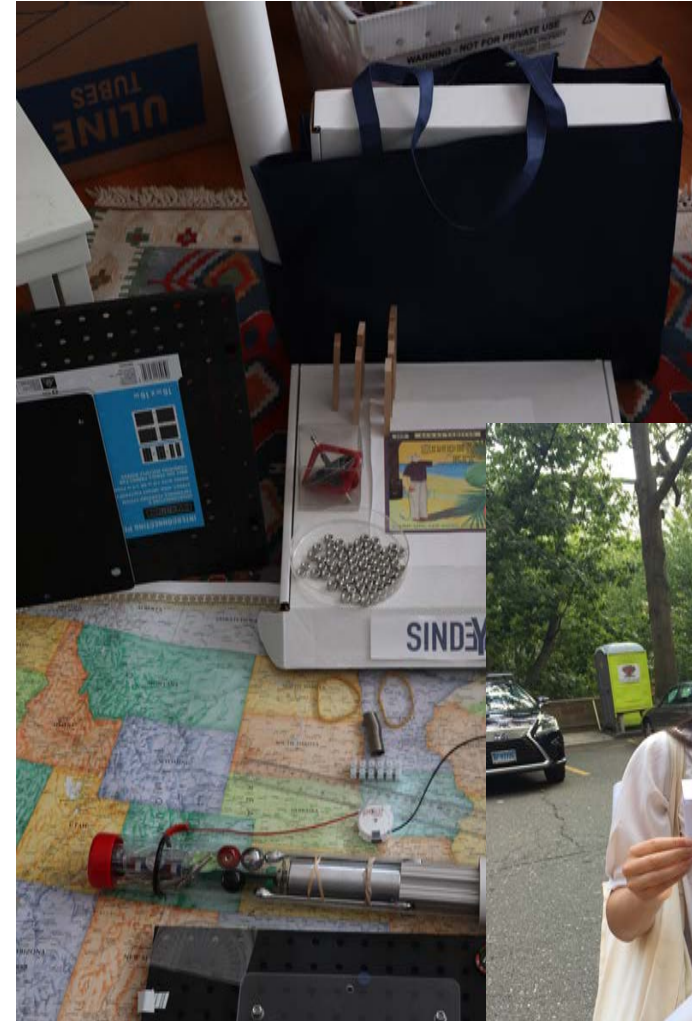


May 2021

Teaching During the Pandemic

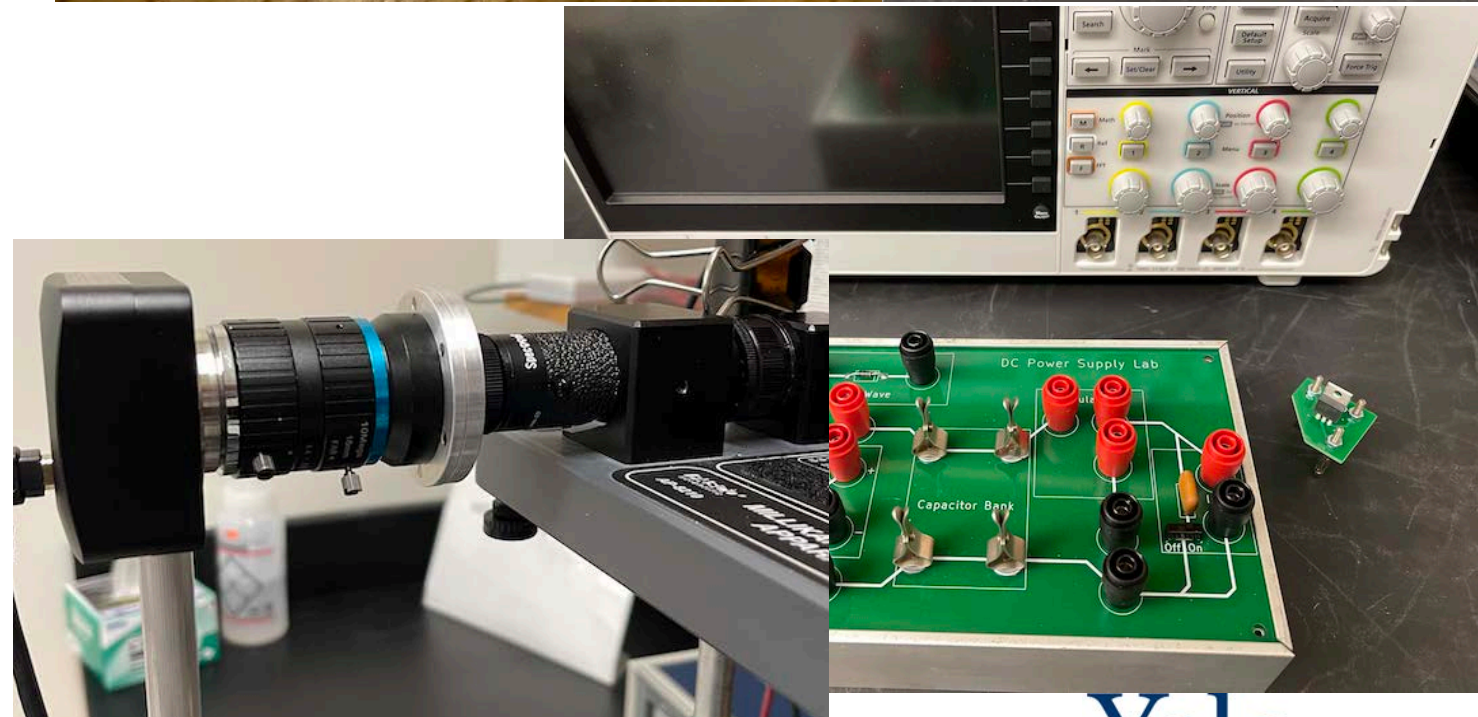
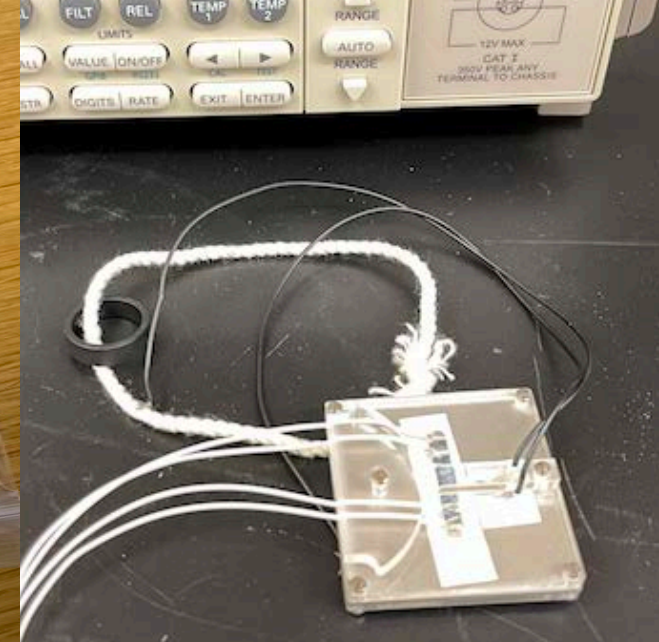
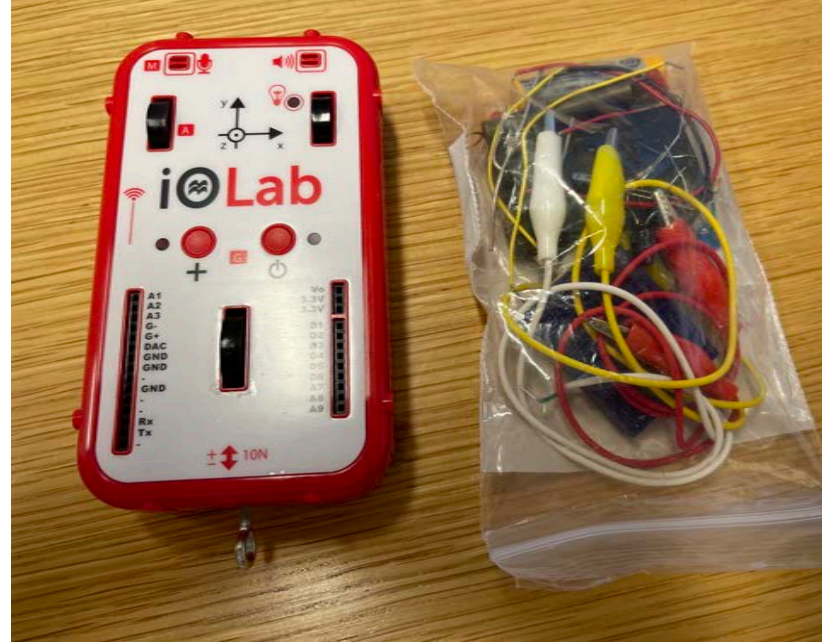
Physics 165/166

- Developed, assembled, mailed experiment equipment for all new at-home lab activities developed for 2020 and 2021 virtual labs. (Cahn/Barrett)
- Currently installing new computers to replace 10+ year old computers
- Developed modified gyroscope to replace old models. In prototype



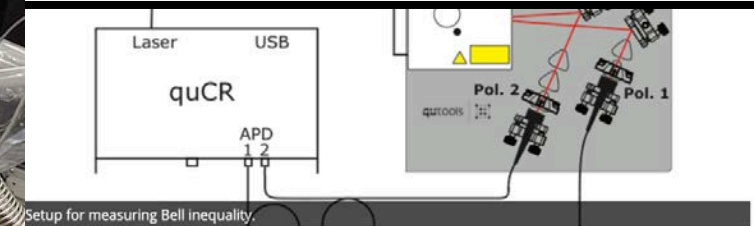
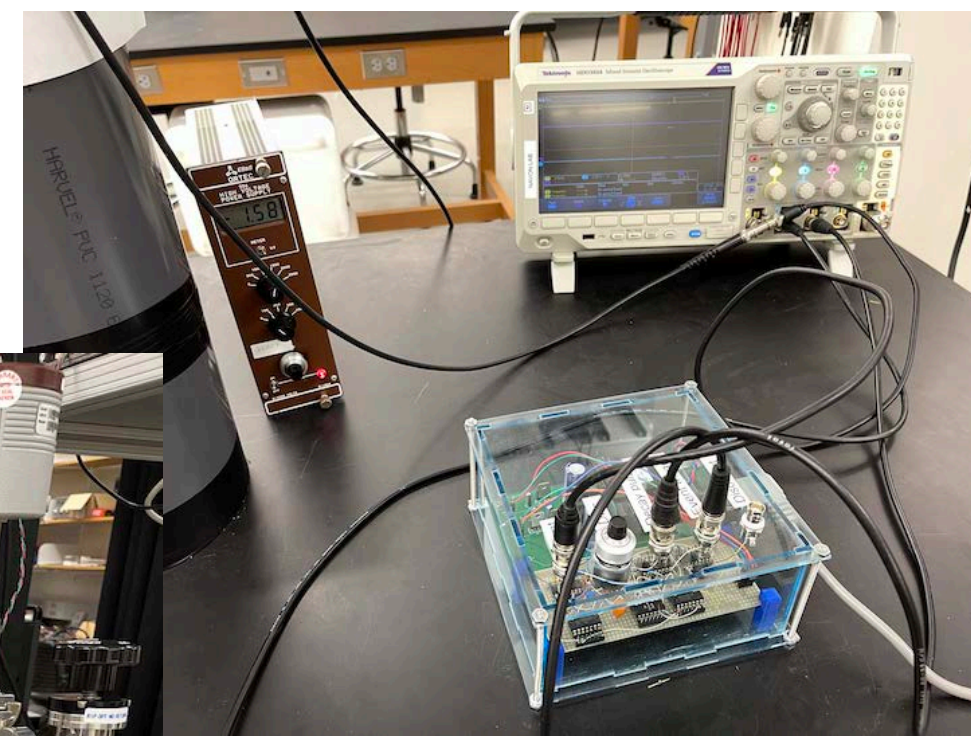
Physics 205/206

- Developed virtual lab curriculum around iOLab sensor device. Included an at home self-directed final project
- Introduced basic python data analysis and display (Matplotlib, Scipy, numpy) into regular 205 and 206 Labs
- upgrades to several labs



Advanced Lab Phys 382

- New Muon Lifetime Lab
- Quantum Entanglement experimental suite (coming soon)
- Ammonia Inversion Experiment



Setup for measuring Bell inequality.

Overview **Sample Experiments** Add-Ons Key Features References Applications
System Includes Videos Downloads & Links

Sample Experiments

Here is a list of the experiments you can do with the quED and its add-ons.

Single Photon Experiments without Interference

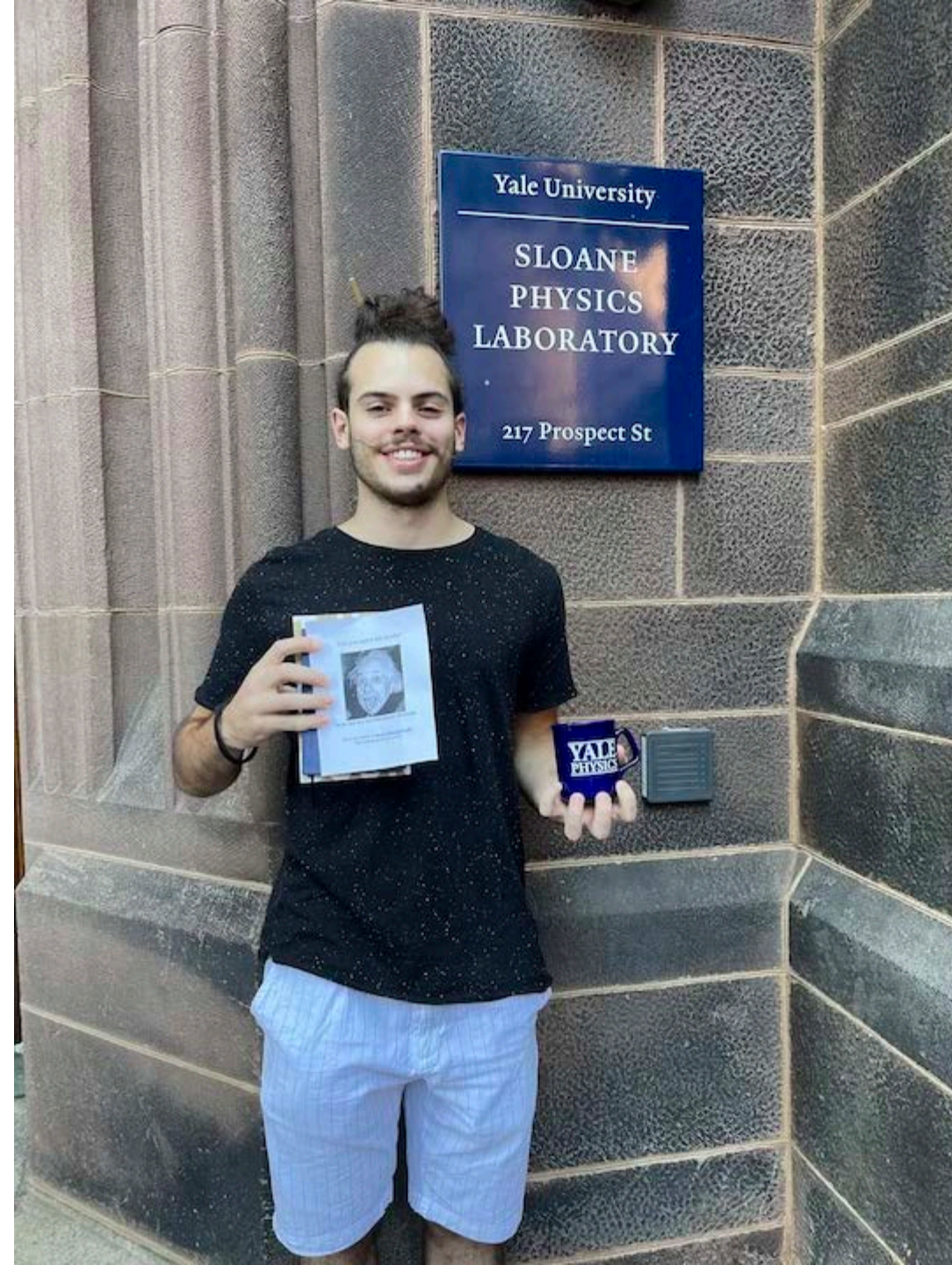
- Particle Nature of Photons
- Quantum Cryptography/QKD: BB84 Protocol
- Tomographic Single Photon State Reconstruction
- Quantum Zeno Effect
- Quantum Random Number Generation

Inaugural Physics Department Challenge

- Monthly challenge for all students
- Prize for first correctly submitted solution

- September challenge won by:

Nicolò Tampellini
Dept. of Chemistry



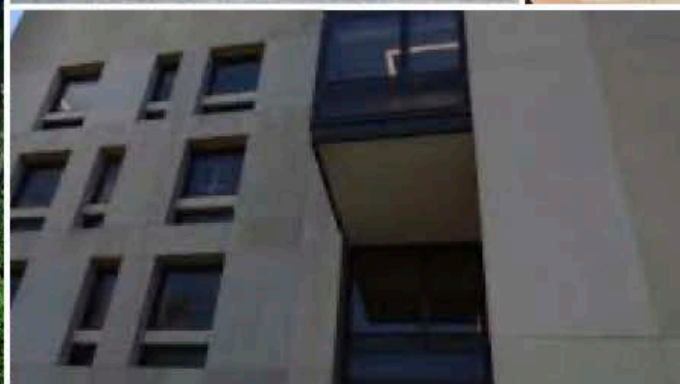
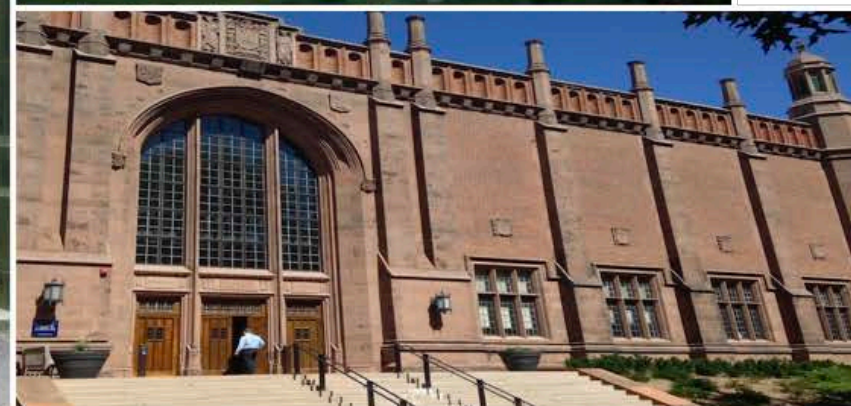
Yale Physics Olympics

No Yale Physics Olympics in 2020-2021

Maybe in spring 2022

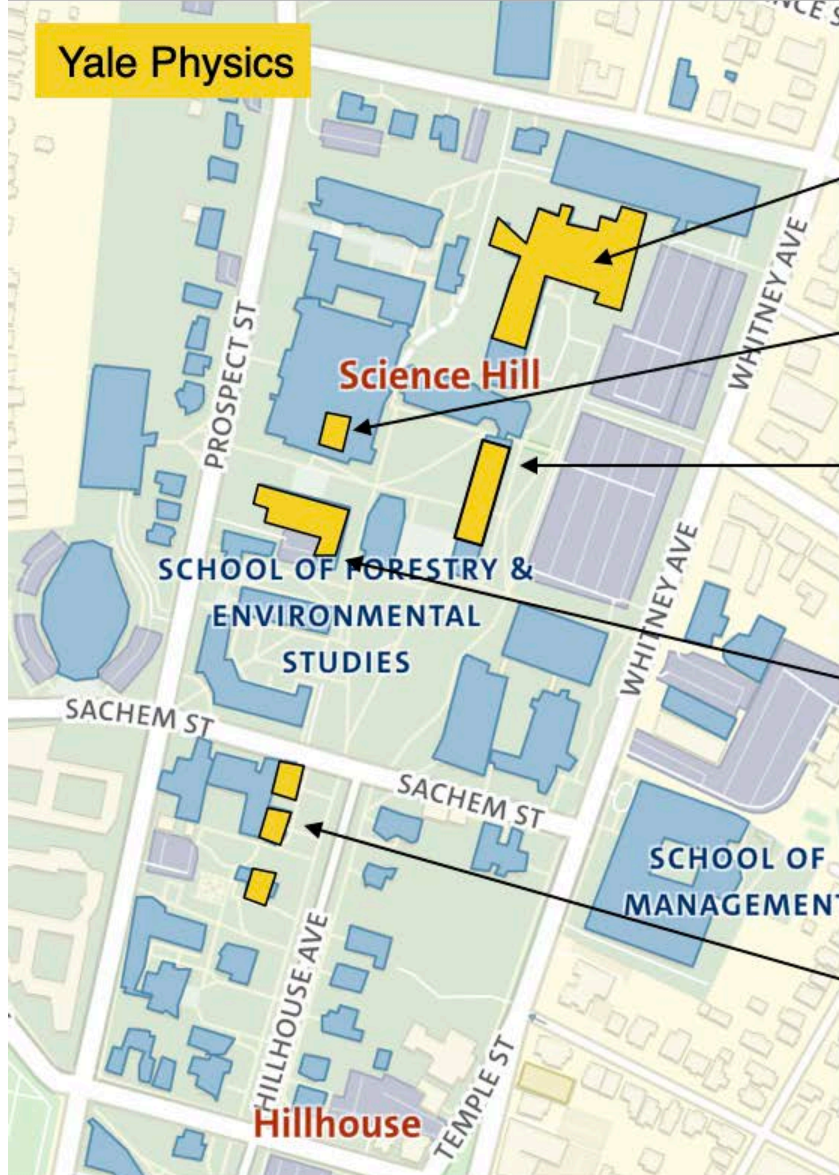


Yale Physics on Science Hill (and West Campus)



Yale *Physics*

Yale Physics on Science Hill



Wright Laboratory (WL)

- experimental laboratories and facilities
- nuclear, particle, astrophysics

Teaching Laboratories (SCL)

Yale Science Building (YSB)

- biological physics

Sloan Physics Building (SPL)

- lectures
- central office
- AMO, bio, condensed matter
- theory

Hill House (HH)

- particle physics
- astrophysics
- astronomy

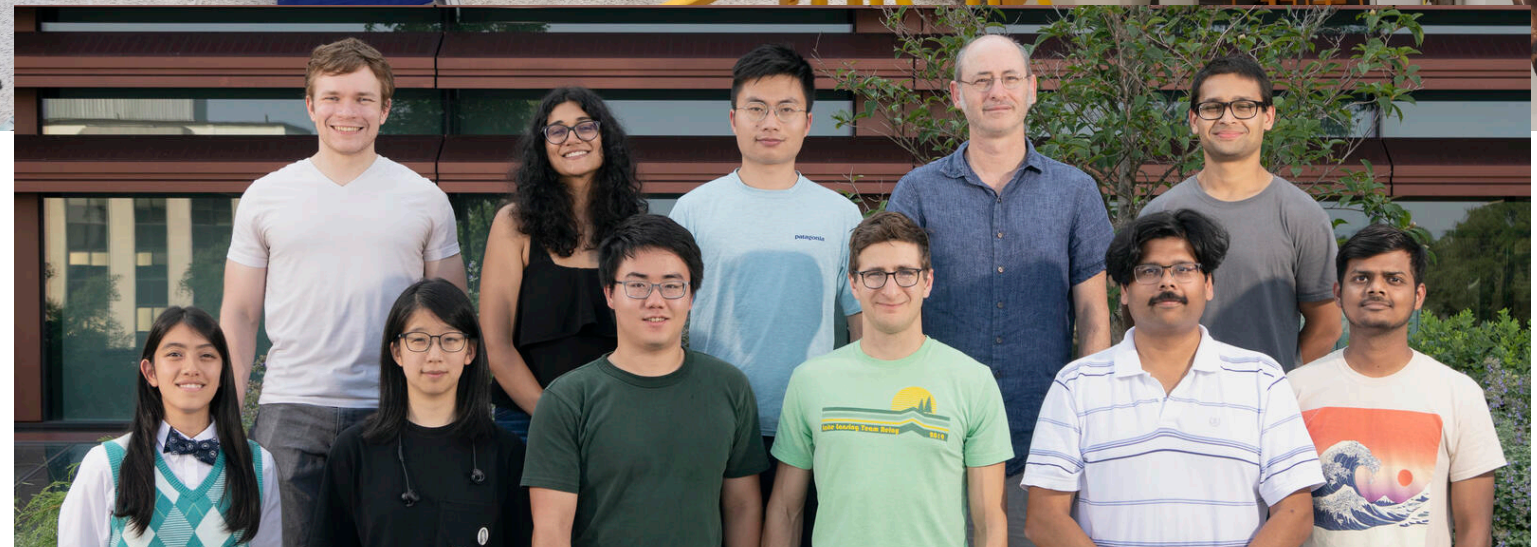


KT completion in summer 2023



SPL renovation and KT connection

New Physics Lab in YSB lab - Jack Harris' Group



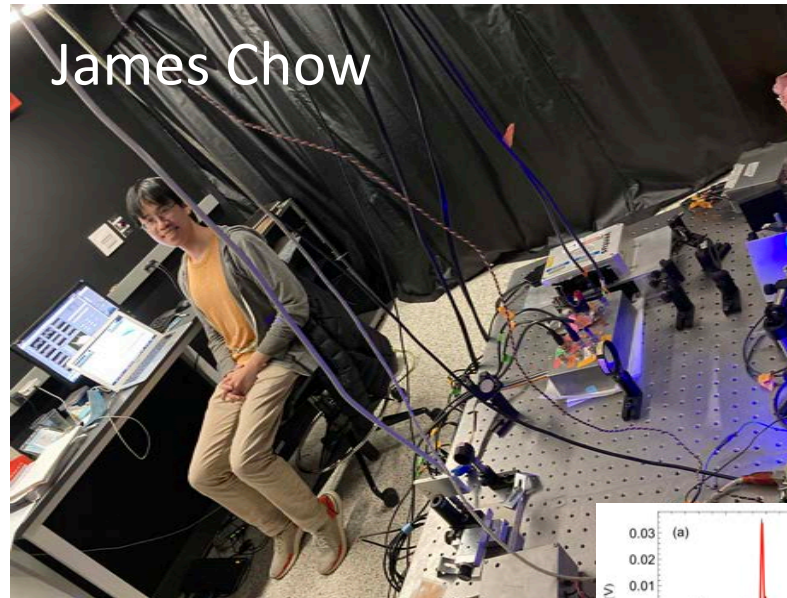
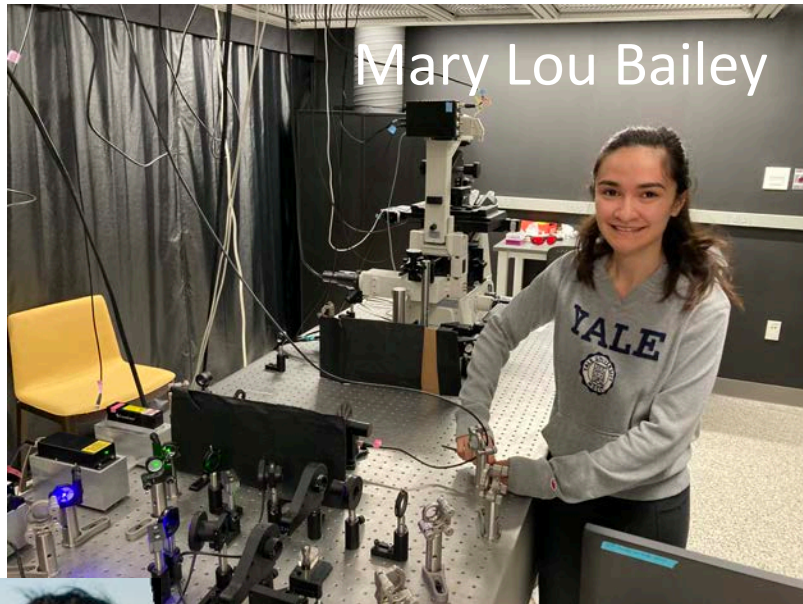
(photo taken during lunch break)

New Physics Lab in YSB lab - Jack Harris' Group



New Physics Labs in YSB - Prof. Mochrie

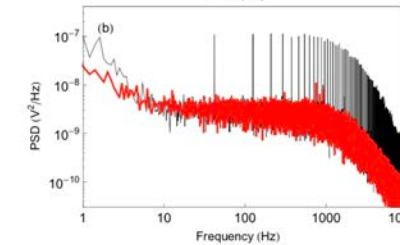
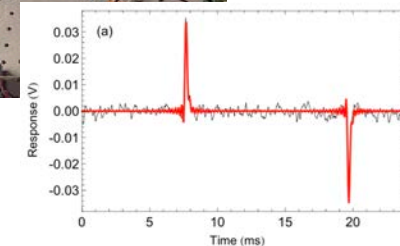
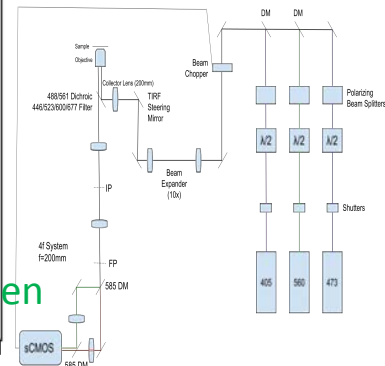
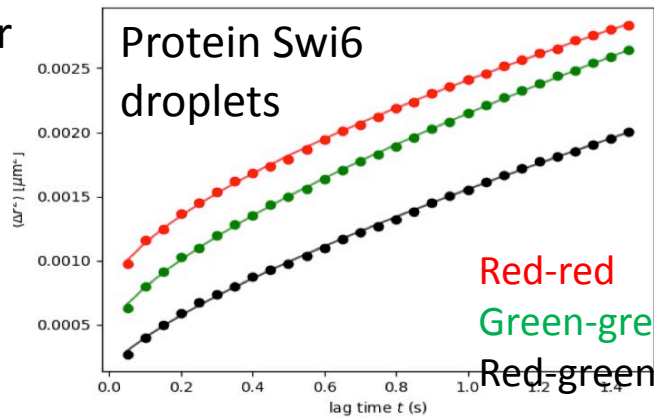
2-color single-particle tracking and optical tweezers microrheology



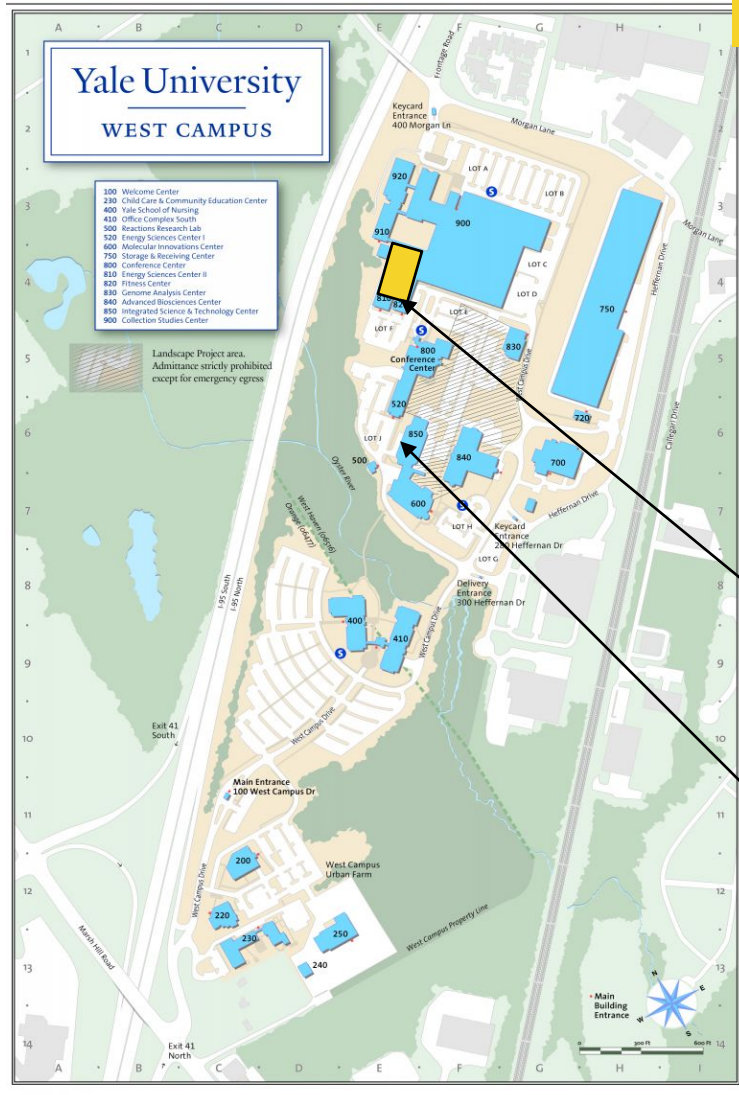
Zoe Aridor



Ivan Surovtsev



Yale Physics on West Campus



Yale Physics



Energy Sciences Institute (ESI)

Eduardo da Silva Neto
Steve Konezny

Systems Biology Institute

Ben Machta

©2018. For use while the West Campus landscape improvement project is under way. Note parking lot identifiers A-H and J and shuttle stops ⑤.

Physics is growing on West Campus



New Physics Labs on WC - Prof. da Silva Neto



da Silva Neto Lab

Investigating Novel Quantum States of Matter

Department of Physics
Energy Sciences Institute



- Helium recovery and liquefaction plant.
- Laboratory designed for experiments sensitive to low-vibrations.
- Acoustic enclosure rooms to house scanning probe instruments.

da Silva Neto Lab

Investigating Novel Quantum States of Matter

Yale

Department of Physics
Energy Sciences Institute



Funding



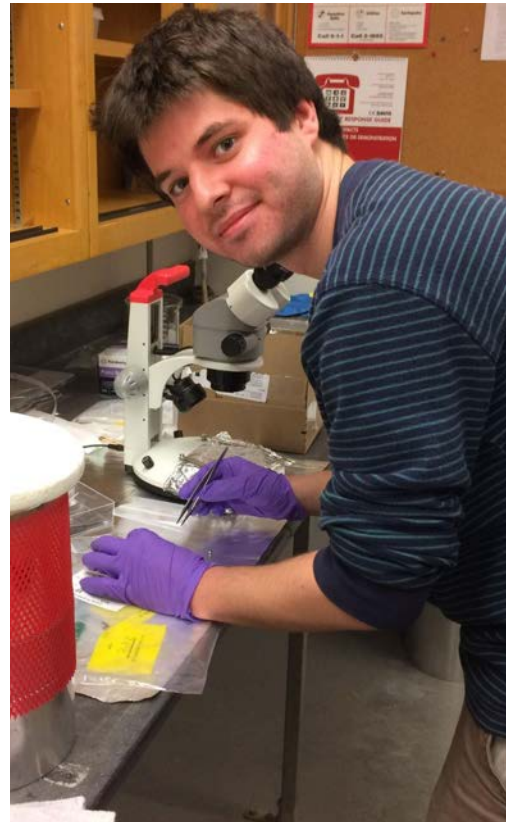
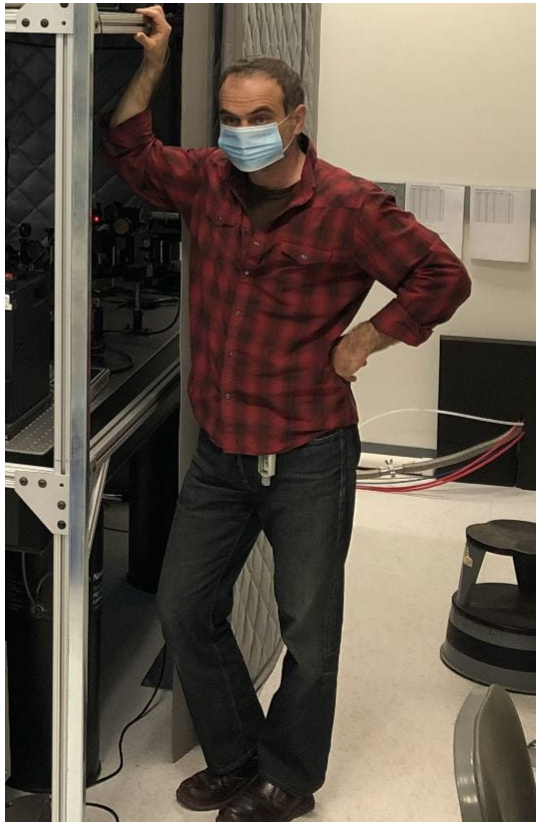
Adrian Gozar
Research Scientist

Tim Boyle
UC Davis PhD Year 6
Yale VAR

Morgan Walker
UC Davis PhD Year 5
Located in CA

Kirsty Scott
Yale PhD Year 2

Maria Cannon
Yale UG Year 4



- Resonant inelastic x-ray scattering (RIXS) experiment reveals key signatures of electron-electron interactions in a cuprate high-temperature superconductor.
- Effective non-monotonic Coulomb interactions in the many body system leading to the spontaneous breaking of translational symmetry.



ARTICLE

Check for updates

<https://doi.org/10.1038/s41467-020-20824-7>

OPEN

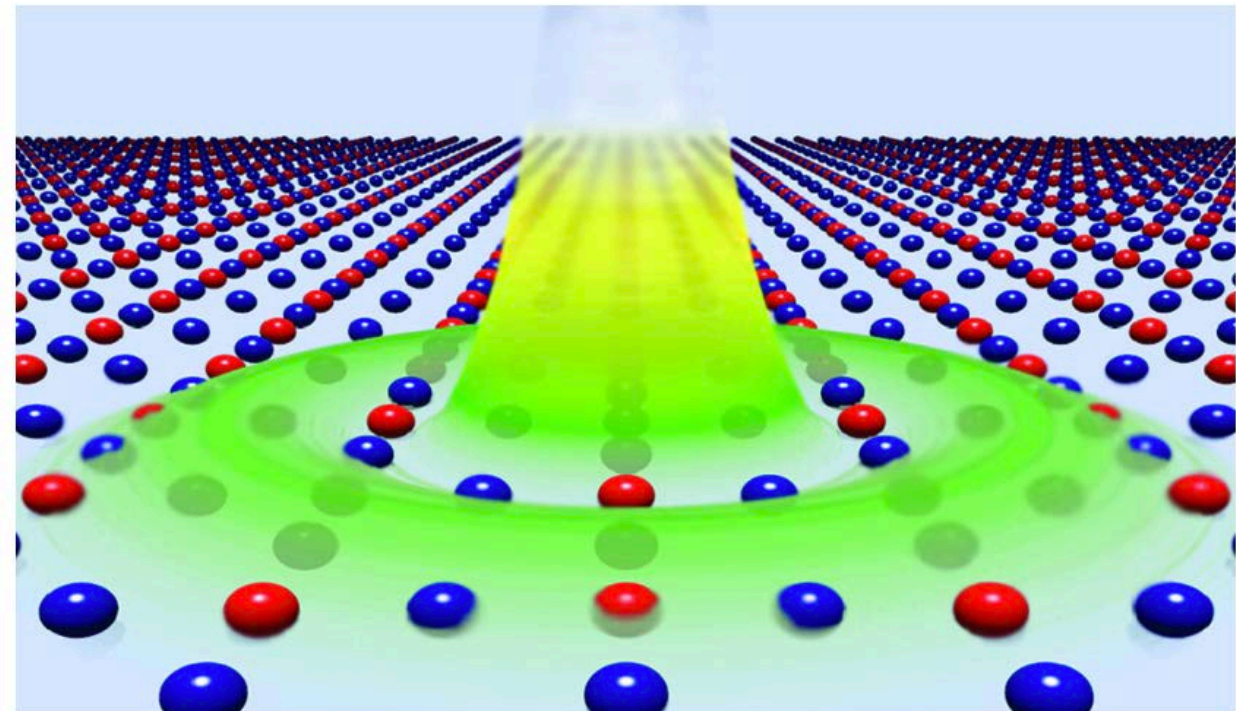
Dynamic electron correlations with charge order wavelength along all directions in the copper oxide plane

F. Boschini^{1,2,3}, M. Minola⁴, R. Sutarto⁵, E. Schierle⁶, M. Bluschke^{4,6}, S. Das⁷, Y. Yang⁷, M. Michiardi^{1,2,8}, Y. C. Shao⁹, X. Feng⁹, S. Ono¹⁰, R. D. Zhong¹¹, J. A. Schneeloch¹¹, G. D. Gu¹¹, E. Weschke⁶, F. He⁵, Y. D. Chuang⁹, B. Keimer⁴, A. Damascelli^{1,2}, A. Frano⁷ & E. H. da Silva Neto^{12,13,14}✉

Rethinking the fundamental way electrons interact in superconducting quantum materials

By Jim Shelton

JANUARY 26, 2021



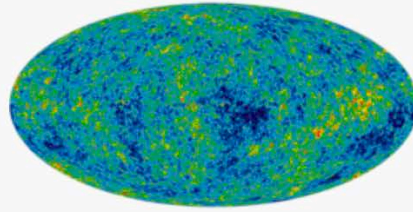
Research Areas

broad research portfolio in experiment and theory

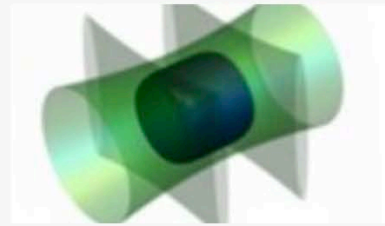
new science initiatives on campus

- quantum science
- data science
- instrumentation

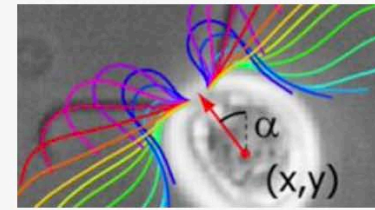
<https://physics.yale.edu/research>



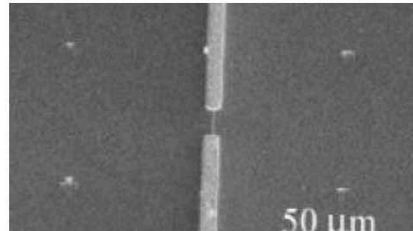
[Astrophysics and Cosmology](#)



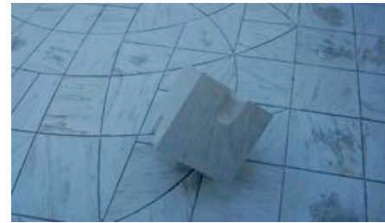
[Atomic, Molecular, and Optical Physics](#)



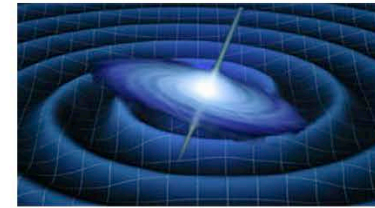
[Biophysics](#)



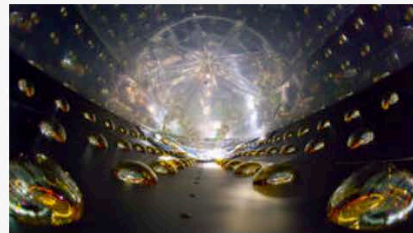
[Condensed Matter Physics Experimental](#)



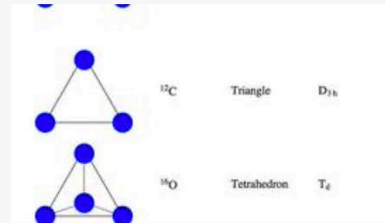
[Condensed Matter Physics Theory](#)



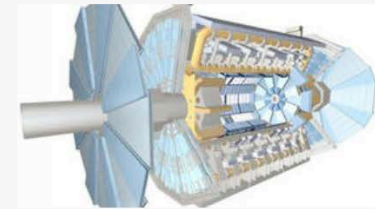
[Gravitational Physics](#)



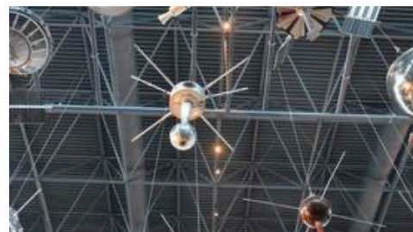
[Nuclear Physics Experimental](#)



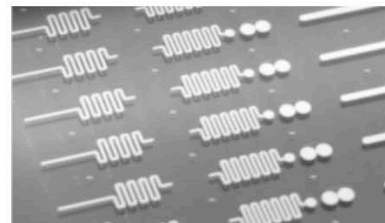
[Nuclear Physics Theory](#)



[Particle Physics Experimental](#)



[Particle Physics Theory](#)



[Quantum Physics](#)

Yale Physics in Research Centers & Institutes



YCAA Yale Center for Astronomy and Astrophysics



Yale's Integrated Graduate Program In **PHYSICAL** and **ENGINEERING BIOLOGY**

Systems Biology Institute



ESI Energy Science Institute

Quantitative Biology Institute [QBio]

Yale *Physics*

Yale Center for Astronomy and Astrophysics (YCAA)

Established in 2001 by Prof. Meg Urry, founding Director

Keck, Palomar telescope access (2 proposal cycles per year)

Institutional member of Sloan Digital Sky Survey
Chilean collaboration, access to Chilean telescope facilities

Annual YCAA Prize Postdoctoral Fellowship
(application deadline Nov 5)

Joint colloquia, journal clubs, seminars

Joint Astro Activities of Physics and
Astronomy Departments

YCAA Prize Postdoctoral Fellowship



Yale Center for Astronomy and Astrophysics (YCAA)

Third Granville Academy

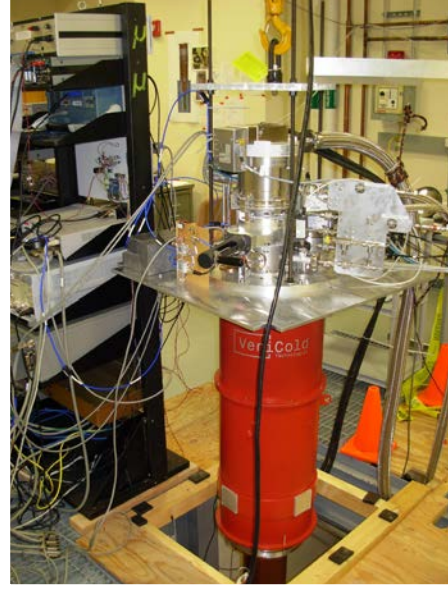
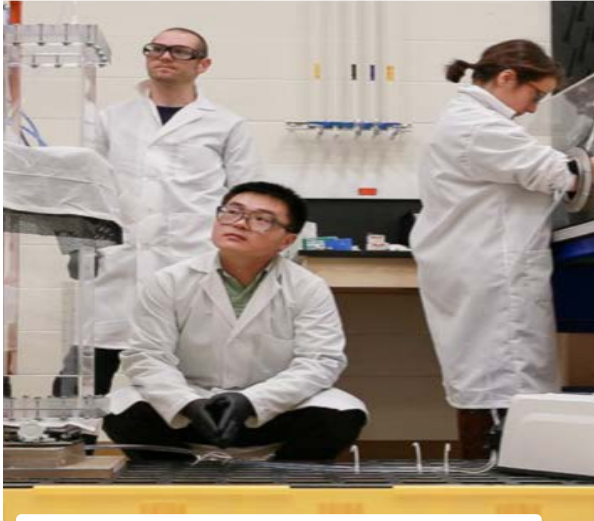


Prof. Meg Urry
Louise Edwards
Malena Rice

week of diversity, equity and inclusion workshops for undergraduate students
doing summer research in astronomy and physics

Wright Laboratory

Exploring the Invisible Universe

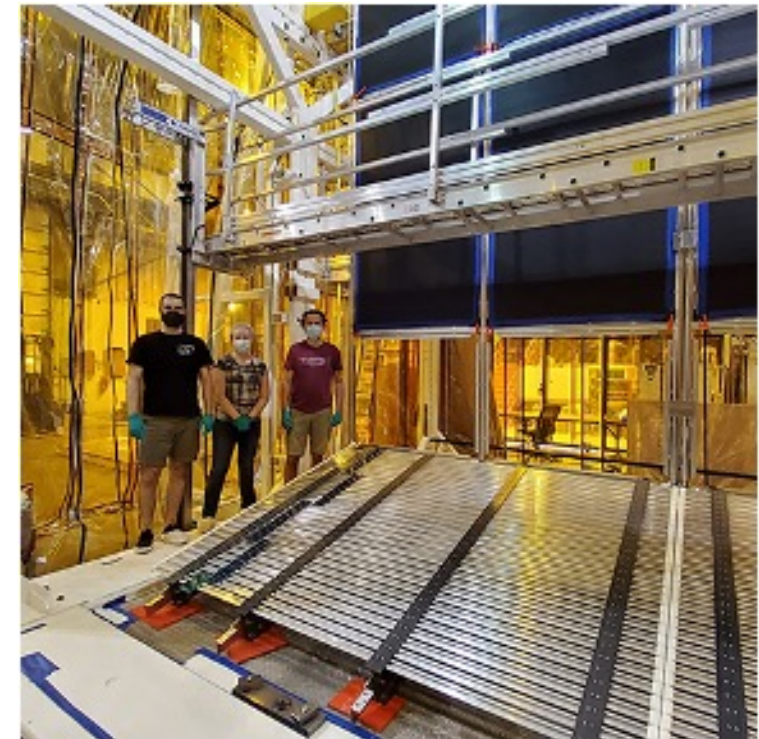
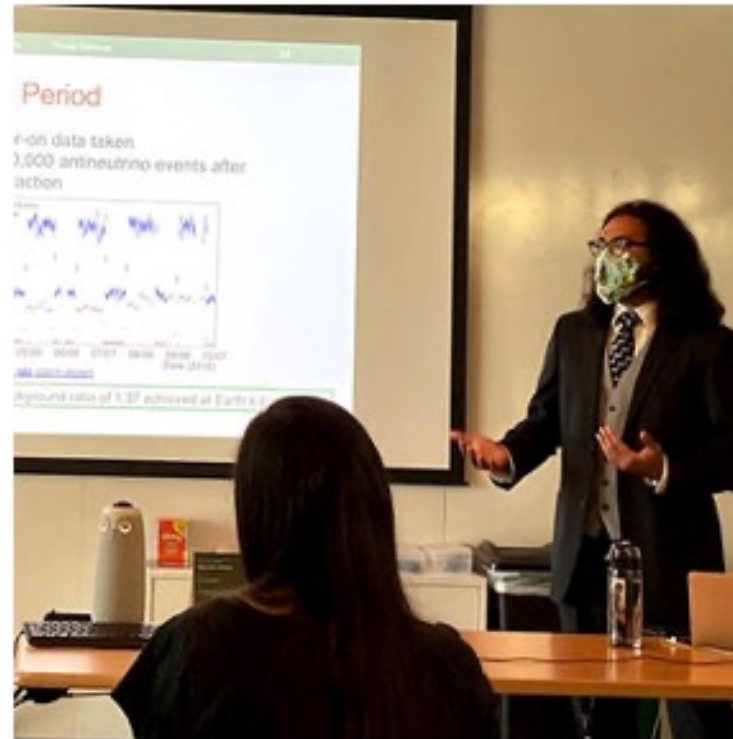


Mission

Advance understanding of the physical world, from the smallest particles to the evolution of the Universe, by engaging in fundamental research, developing novel applications, training future leaders in research and development, educating scholars, and enabling discovery.

<https://wlab.yale.edu>

Wright Laboratory - Highlights



Wright Lab RHIG group integral in success of launch of Electron-Ion Collider Project at BNL

The search for dark matter with HAYSTAC gets a speed boost from quantum technology

Yale High Energy Neutrino Physics Group developing new neutrino detector technologies

Maruyama elected member of Connecticut Academy of Science and Engineering and named 2020 APS Fellow

Professor O. Keith Baker and alumni Charles D. Brown II and Brooke Russell named as an inspiring Black scientists in America by the Community of Scholars

Yale Quantum Institute

The Vision

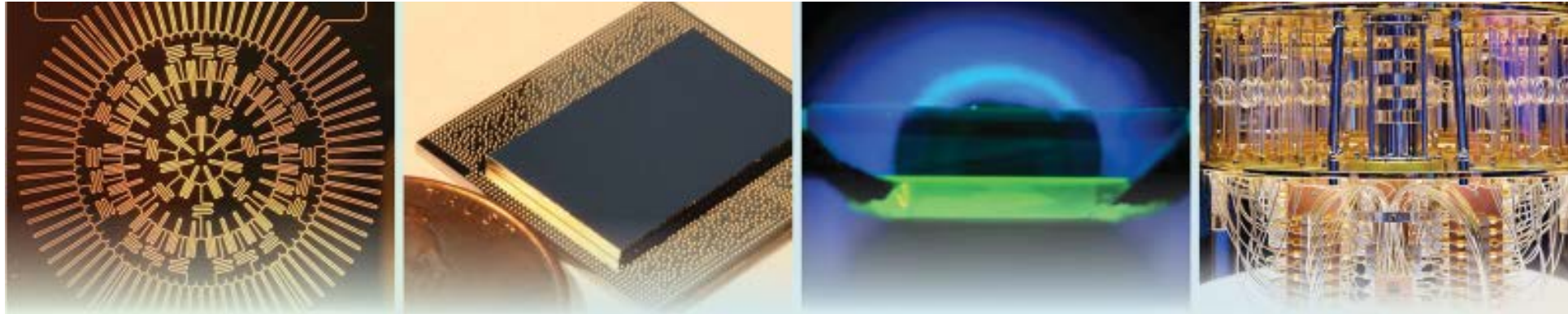
The Quantum Institute facilitates the research and teaching of quantum science on the Yale campus. YQI performs outreach in the form of seminars, workshops, and by hosting leading scientists from around the world.

- **Capitalize on Yale's lead** in the area of quantum information.
- **Build a reputation for excellence** at Yale in a 21st century growth area in basic and applied physical science.
- **Ensure that Yale becomes the intellectual epicenter** in the future of quantum information science and technology.
- **Leverage the advantage in *this* area** to help Yale excel in *other* related and emerging areas of science. (infrastructure!)
- **Attract and train the next generation's leaders** to carry out the quantum information revolution.

Meng Cheng
Steve Girvin
Jack Harris
Sean Barrett
David deMille
Leonid Glazman
Reina Maruyama
Nir Navon
David Moore
Nicholas Read
Ramamurti Shankar
Karsten Heeger



New Quantum Center Grants



Co-Design Center for Quantum Advantage

\$115M/5 years

25 Institutions, 88 PI's



Yale PI's: Schoelkopf, Devoret, Rakich, Ahn, Tang, Girvin, Glazman

New Quantum Center Grants



**The NSF Quantum Leap
Challenge Institute
for Robust Quantum
Simulation**

\$25M/5 years

(Yale PI: S. Puri)



Duke
UNIVERSITY



NC STATE
UNIVERSITY

Yale

Yale *Physics*

Quantum Science and Engineering @ Yale

New Faculty Hires

Shruti Puri (AP, Quantum Information Theory)

Yongshan Ding (CPSC, Quantum Computer Architecture/Systems)

Current Faculty Searches

Senior Atomic/Molecular/Optics Experiment (Physics)

Senior Quantum Experiment (AP)

Outreach event:

YQI Quantum Week @ Yale: April 8-14, 2022

<http://quantum.yale.edu/Quantum-Week.html>

New Quantum-related Courses at Yale

APHY 691 Quantum Optics (Shruti Puri)

APHY 660 Quantum Information & Computation (Shruti Puri)

PHYS 345 Introduction to Quantum Information Processing and Communication (Steve Girvin)

CPSC 647 Quantum Computer Systems (Yongshan Ding)

CHEM 584 Machine Learning and Quantum Computing in Chemistry and Materials Science (Victor Batista)

MATH 708 Quantum Geometry and Topology (Daniel Douglas)

PHYS 676 Introduction to Light-Matter Interactions (Peter Rakich)

APHY 607 Modern Topics in Optics and Quantum Electronics (Peter Rakich)

Yale

Report of the University Science Strategy Committee

Topics of interest to Physics

priority areas

data science

quantum science

cross-cutting initiatives

instrumentation

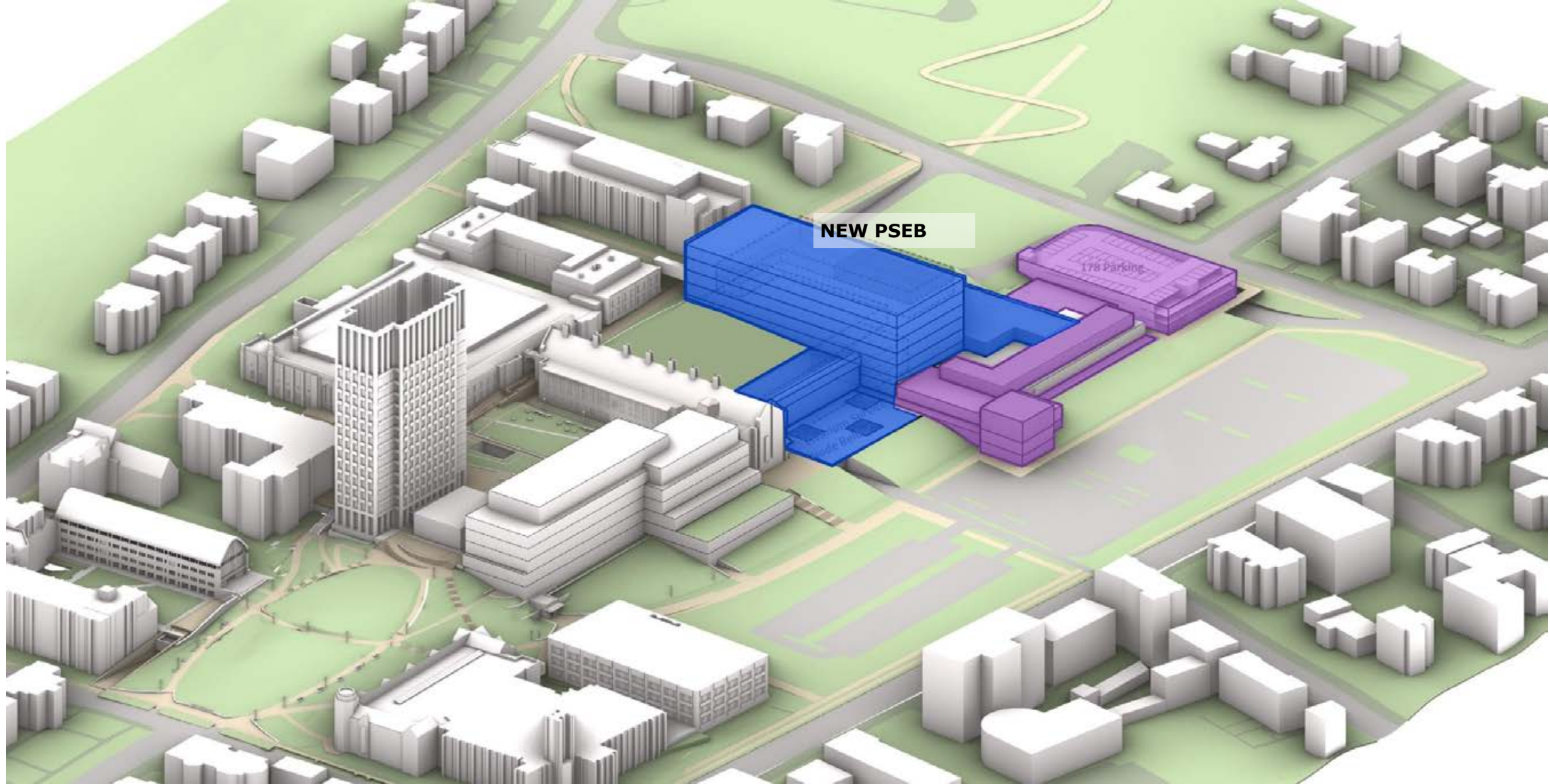
diversity

+ a new Physical Sciences
and Engineering Building

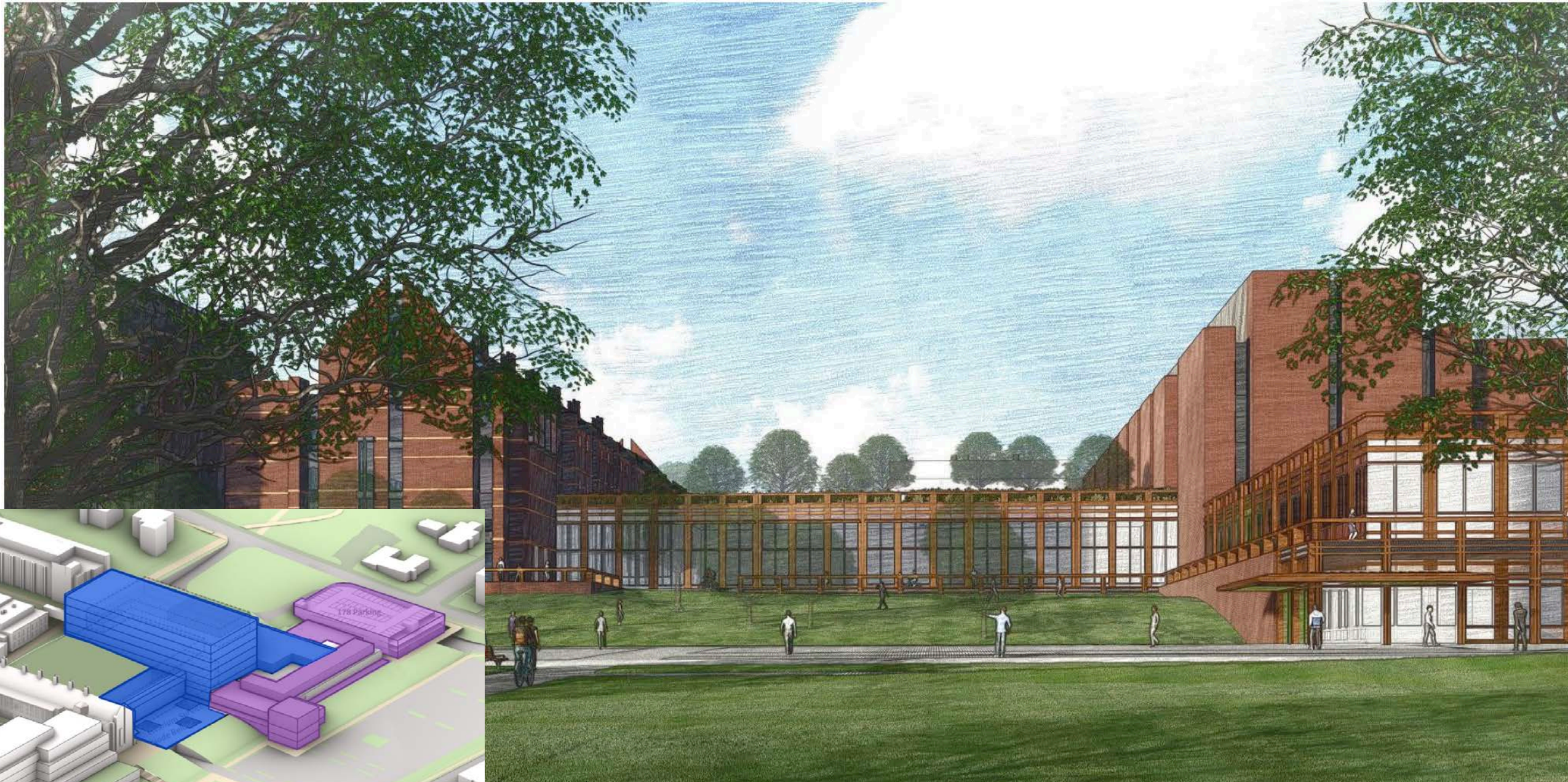
<https://research.yale.edu/ussc-report>

Yale *Physics*

New Physical Sciences & Engineering Building



New Physical Sciences & Engineering Building



The Opportunity

Program for the Physical Science and Engineering Building (PSEB)

- **Intellectual hub for the Quantum Science, Engineering and Materials initiative (USSC)**
- an **Advanced Instrumentation Development Center (AIDC)**
- Goal of opening building in 2026 (now ~2027)
- Expanded and upgraded core facilities
- Space to accommodate approximately 45 faculty and research labs
- Anticipated departments include MEMS, EE, CEE, CS, Applied Physics, and Physics

from PSEB Town Hall 2/25/20

Stay tuned!

Yale *Physics*

Yale Physics Activities

Department of Physics

Home About Research Academics People Media Events Out

Diversity

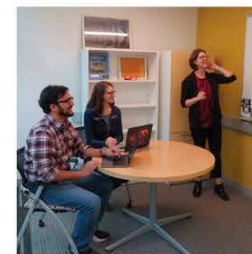
<https://physics.yale.edu/calendar>

Physics Seminar Calendar	Upcoming	Month	Week	Day	Year	All Even
External Seminars of Interest	Upcoming Events					
Physics Club & Prize Lectures Flyer	SEPTEMBER 13, 2021					
Physics Club	4:00pm	Physics Club: Karsten Heeger, Yale University, "The State of the Department"				
Prize Lectures	SEPTEMBER 14, 2021					
Physics Internal Activity Calendar	1:00pm	YPPDO Workshop: Preparing for Faculty Positions with Bonnie Fleming and David Moore				

Join us, get involved!

Many events will be hybrid

Yale Physics



September 10, 2021

Events

Monday, September 13

4:00 pm **Physics Club:** *The State of the Department*, Karsten Heeger, Yale University, zoom, password: 008008

4:00 pm **Molecular Biophysics & Biochemistry Seminar:** *Ubiquitination lessons taught by the bacterial pathogen Legionella pneumophila*, Zhao-Qing Luo, Purdue University, zoom. Host: Shanna Dickinson.

Tuesday, September 14

1:00 pm **YPPDO Workshop:** *Preparing for Faculty Positions*, Bonnie Fleming and David Moore, Yale University, zoom, password: 083654

Wednesday, September 15

1:00 pm **Yale Systems Biology Institute Seminar:** *Signal encoding and decoding in dynamical live cell systems*, Andre Levchenko, Yale University, zoom, password 688858.

2:30 pm **Mechanical Engineering and Materials Science Seminar:** *Classical fluid dynamics confronts modern research questions*, Howard Stone, Princeton University, contact department for zoom information.

3:30 pm **Earth & Planetary Sciences Colloquium:** *Earth's wild years: how large collisions shaped the early Earth*, Simone Marchi, Southwest Research Institute, contact department for zoom information.

Thursday, September 16

2:30 pm **Astronomy Colloquium:** *Heavy Element Nucleosynthesis in the Era of Multi-messenger Astronomy*, Erika Holmbeck, Carnegie Observatories, contact department for zoom information.

Looking towards the Future

We are preparing for a new Strategic Plan in Physics

I would like to hear from you!



- What do we aspire to be?
- What is our vision for Yale Physics?
- Where do you see Yale Physics 5-10 year from now?
- How does Yale Physics fit into the scientific landscape at Yale in terms of teaching and research and broader university impact?

Goals for 2021-2022



Reconnect!

Have fun with science!

Build (for) the future of Yale Physics!

Have a great and productive year!