UA Physics State of Department



Shufang Su • U. of Arizona

Dec 22, 2025



Staff and Student Workers

11 Staff + 3 Student Workers

Academic Advisors

Business Office

Academic Support

IT Support



Kristy Merdinger
Join Feb, 2025



David Smith



Katie Butcher



Matthew Jones

Lab and Classroom



Amy Bai



Join May, 2025



Shane Smith



Kyle Rine



Rohit Singh

Front Office



Sarah Arellano



Adrian Rose



Luca Sakihana



Melissa Walton Join Oct, 2025

Faculty



Physics

2025/26 Faculty











































































38 faculty
10+ APS Fellows
\$8M+ research grants

19 K+ SCH

Faculty

• 3 new faculty



Ian Lim join in Jan, 2026 (Assistant Professor of Practice)

Forever on Our Hearts



Bruce Barrett (1939 - 2025)

- Emeritus Professor, theoretical nuclear physics
- No-Core Shell Model
- APS Fellow
- Humboldt Fellowship, Fulbright Fellow
- Spearheaded formation of the Phi Beta Kappa Association of Tucson
- World traveller

Memorial Gathering Oct 2025



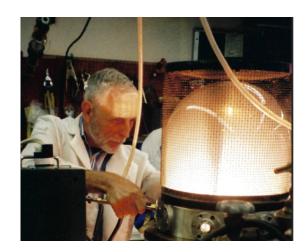


Forever on Our Hearts



Don Huffman (1935 - 2025)

- Emeritus Regent Professor
- Massive production of C60 buckyball
- Monograph: "Absorption and Scattering of Light by Small Particles" (with Bohren)
- Materials Research Society's highest award (Gold Medal) 1993
- Hewlett-Packard Europhysics Prize 1994
- Long-distance runner

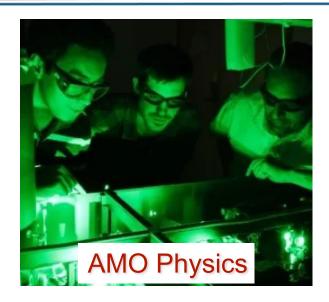


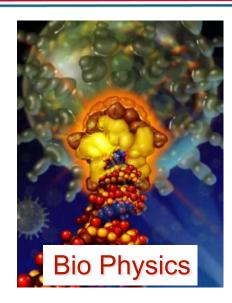


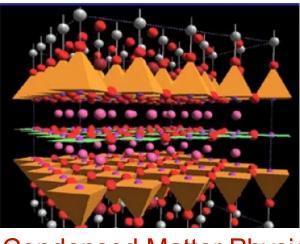
Research



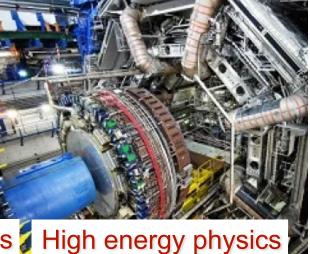
Astrophysics and Cosmology

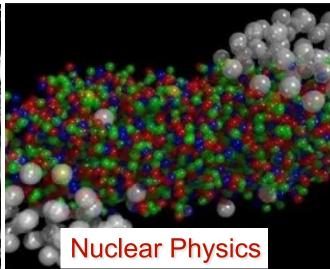












UA Physics

Nobel Prize in Physics 2025



III. Niklas Elmehed © Nobel Priz Outreach John Clarke

Prize share: 1/3



III. Niklas Elmehed © Nobel Prize Outreach Michel H. Devoret

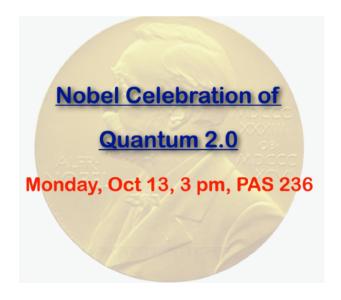
Prize share: 1/3



Ill. Niklas Elmehed © Nobel Prize Outreach

John M. Martinis

Prize share: 1/3



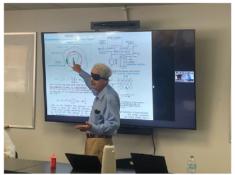
The Nobel Prize in Physics 2025 was awarded jointly to John Clarke, Michel H. Devoret and John M. Martinis "for the discovery of macroscopic quantum mechanical tunnelling and energy quantisation in an electric circuit"











Falco, Schaibley, Stafford, Wang

Undergraduate Study

- 300+ undergraduate students with 2 physics majors
 - Physics major, minor
 - Applied Physics major



Physics Graduate 2025

Summer 2025 Bachelor of Science in Physics

Devin Ackermann Thomas Joyce Aleksandar Antonic Hannah Kempen Adel Awad Matan Lagnado Christian Burt Andrew Li Ella Butler Matthew Maxim Nicolas Mazziotti Ruth Dierdorff **Tugg Ernster** Colin Murphy **Brandon Friend** Frederic Penney Jascha Gaarder Colton Quirk Megan Harrison **Eason Wang**

Bachelor of Science in Applied Physics

Max Betaille Luke Garman Liam Falk Kudzai Musarandega

Minor in Physics

Ellen Jesina

Aiden Insall

Collette "Coco" Larson Alondra Cardona Swapnaneel Dey Laura Mack Isabella Olin Ava Doty Ben Phan Ethan Figureido **Animesh Garg** Roswell Roberts Nikhil Garuda Savannah Smith Ping Tontrasathien Jessica Gurney Aaron Hernandez Maritza Torres

Winter 2025

Saif Alrawaished Mathhew Gills I-Tzu Huang



Winter 2025

Colin Weber

Undergraduate Study

- HEBUT Applied Physics program, 350 enrollment.
- Summer 2025, first graduating cohort.





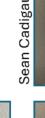




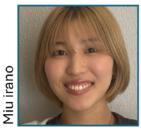
Graduate Study

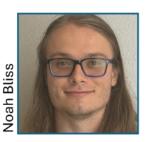
- ~ 100 graduate students
- 2025 cohort (10)

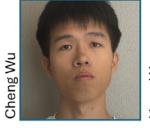












Lauren Hallstead











Physics Graduate 2025



Physics Graduate 2025



Doctor of Philosophy in Physics

Jose Daniel Castro Cisneros
Pao-Kang Chen
Zhaoyuan Cui
Waverly Gorman
Rohit Gupta
Elaheh Hayati

Will Price
Edgar Martin Salazar Canizales

Wei Leong Tee Tyler Trent

Emily Van Milligen

Caleb Webb Boyu Zhou



Master of Science in Physics

Pritam Bangal Sonja Choi

Ian Pannemarsh

Nicholas Lopez-Canelas Caleb Webb

Fall/Winter 2025 PhD in Physics

Bowei Zhou Jesus Ernesto Torres Burruel Moshe Raphael Nechemiah Chesler

Master Study



Semiconductor Science and Technology

- A new Master of Science in Physics emphasis
- A new Accelerated Master's Program 4+1

FASTLab



Student Accomplishments



Outstanding Graduating Senior Brandon Friend

Excellence in Undergraduate Research (Physics)
Megan Harrison

Excellence in Undergraduate Research (Astronomy)
Eason Wang

Fall/Winter 2025 Outstanding Senior Saif Alrawaished



Student Accomplishments



Liam Falk
Fish out of Water Award

Galileo Circle Scholars

Undergraduate

Jorge Blanquer Rendondo

Graduate M Smith

Nikoli Cooper

Penny Duran

Keenan Fiedler

Grace Gibbins

Vaibhav Joshi

Thomas Nguyen

Rohin Sant



Undergraduate

TIMESTEP Summer Tech Internship 2025



Rohin Sant



Joel Shernicoff



Philip Klaassen



Shashank Verma



Tristan Flores King



Keita Maekawa



Michael Balducci

Undergraduate Research

Lucy Engel Undergraduate Research Symposium

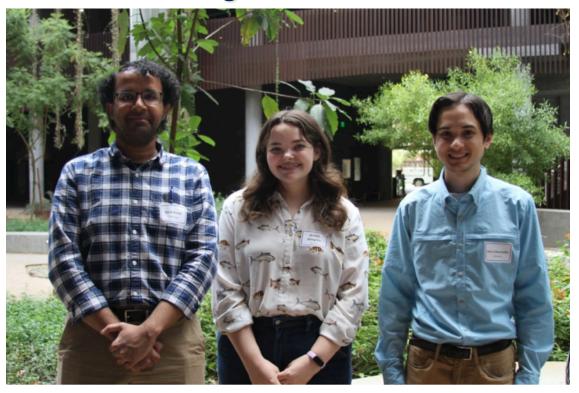


Best Presentation
Aurora Wilde

Best Poster Frederic Penney

Student Accomplishments

CoS Outstanding Graduate Student Award

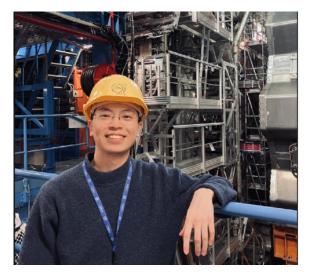


Graduate Scholarship Award: Parth Kumar

Graduate Service Award : Brianna Billingsley

Graduate Teaching Award: Harry Mayrhofer

Student Accomplishments



Maxwell Cui
US ATLAS Outstanding Graduate Student Award

ARCS Scholar

Anna Roche

Maria Mutz





2025 Physics Department Scholarships

The Weaver Award for Undergraduate Research in Physics

Namit Chandak Suhani Surana Pranav Chiploonkar Shashank Verma Keenan Fiedler Lauren Whitaker

Vaibhav Joshi

John A. Leavitt Experimental Physics Prize

Brandon Friend

The William S. Bickel Graduate Fellowship in Physics

Maria Mutz

The Weaver Award for Undergraduate Research in Physics

Namit Chandak Suhani Surana Pranav Chiploonkar Shashank Verma Keenan Fiedler Lauren Whitaker

Vaibhav Joshi

John A. Leavitt Experimental Physics Prize

Brandon Friend

The William S. Bickel Graduate Fellowship in Physics

Maria Mutz

Fanfare Graduate Travel Award

Brianna Billingsley

Dipayan Biswas

Nisnat Chakraborty

Annyun Das

Ali Habiboglu

Parth Kumar

Michael McDonnell

Maria Mutz

Jeremy Philbrick

Anna Roche

M Smith

Erik Wessel



Brian LeRoy Undergraduate Teaching Award (Service Course)



Sumit Mazumdar Undergraduate Teaching Award (Major Course)



Charles Starfford Graduate Teaching Award



Stefan Meinel Service Award



Amy Bai
Outstanding Staff Award
CoS Staff Excellence Award



Kyle Rine
Outstanding Outreach



Navin McGinnis
CoS Galileo Circle Postdoc Award



John Schaibley
ORP Inaugural Fellow for Quantum



Srin Manne
CoS Distinguished
Career Teaching Award



Brian LeRoy Innovation in Teaching Award



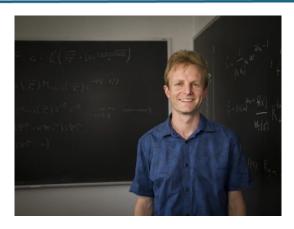
Sam Gralla
Blitzer Award for
Excellence in Teaching



Eduardo Rozo
Cottrell SEED Award



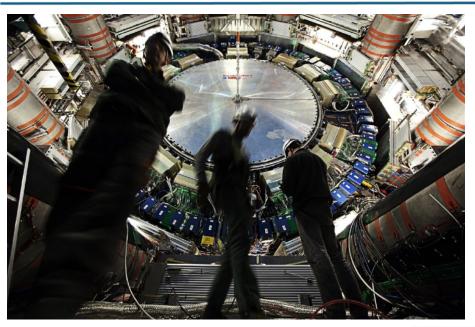
John Schaibley
Moore Foundation Award 1.3 M



Sam Gralla APS Fellow

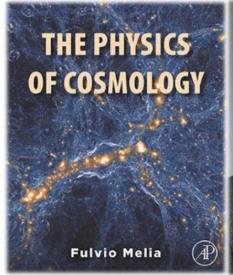


UA ATLAS Group
R&D Funding for
Future Higgs Factory
Detector



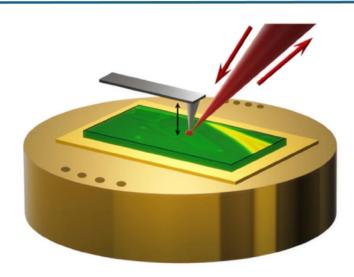
UA Physics ATLAS Group among winners of Breakthrough Prize in Fundamental Physics

Fulvio Melia
The Physics of Cosmology
April 1, 2026



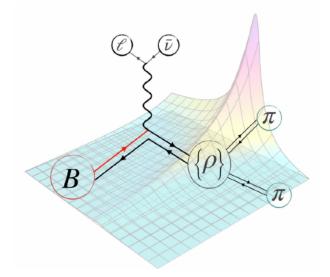


Research Highlights



Brian LeRoy, John Schaibley, Anna Roche Nano-Scale Images of Exciton Spectrum





Stefan Meinel, Luka Leskovec Lattice QCD Research PRL Editor's Suggestion

Mohammed Hassan, Mohamed Sennary

Quantum Uncertainty Dynamics of Ultrafast Light
Pulses

Petahertz-speed transistor

Research Highlights







Keith Dienes, Brooks Thomas, Lucien Haitier, Jonah Barber

The Universe on Pause

LeRoy and Schaibley Group Superfluidity in 2D

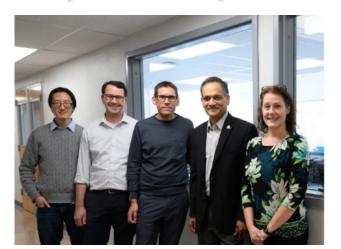


Activities



Quantum Research Initiative Workshop

Organized by John Schaibley





SCET 2025

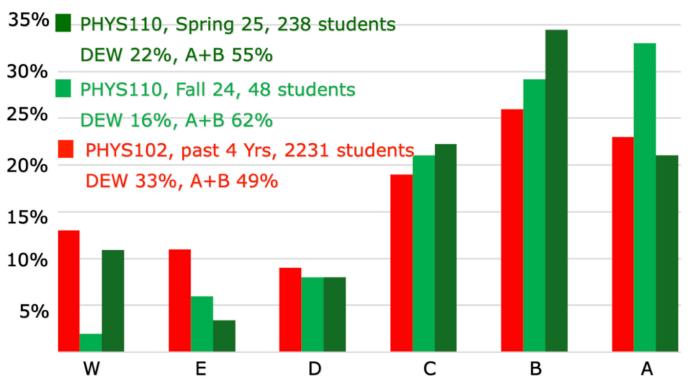
Organized by Prof. Sean Fleming

UA President Garimella and CoS Dean Garzione visited Physics Department

- Nanoscale Quantum Science Lab
- Introductory Physics Studio Classroom
- FASTLab

Studio Class

Fig 1: Algebra Based Introductory Physics Grades



1st Studio Class PHYS 110 fully launched in Spring 2024
2nd Studio Class PAS 111 will be fully launched in Spring 2025
20% increase in enrollments

Alumni News



HosteProf. Sera Markoff (PhD 2000)
Appointed Plumian Professor of
Astronomy and Experemental Philosophy
University of Cambridge

Felix Kling (PhD 2016)
2025 Frontier of Science Award





Hongji Wei(BS 2024)

APS LeRoy Apker Award Finalist

Gifts





Left: Kenneth and Paula Krane Right: John Engel

Studio Classroom II

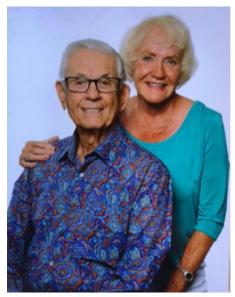


Fanfare Travel Award

Endowment

Michael Fan (son of Charlie Fan)

Graduate Scholarship
Endowment
Dale and Jenny Shellhorn



Student Organization: Physics Club





Physics Club

President: Tyler Brown

Vice President: Julien Barrosse

Treasurer: Ewan Wolgemuth Secretary: Kira Reyes

Event Outreach Coordinator: Adrian Rose

Social Media Coordinator: Hannah Gruber

https://uaphysicsclub.weebly.com/



Student Organization: PIE

PIE: Physicists for Inclusion and Equity -

President: Chloe Marzano

Vice President: Aaron Bartleson

Treasurer: M Smith

Secretary: Clarissa Pavao

Outreach Coordinator: Charlotte Zehnder

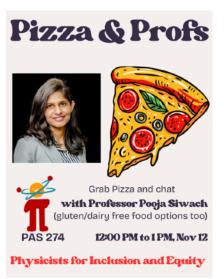
https://arizona.campusgroups.com/club1139/home/

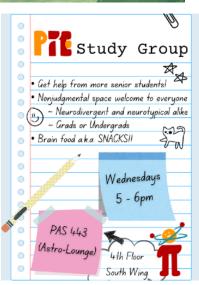












Student Organization: Graduate Student Council



Student Activities



UA Physics Team won the 2nd place US Physicist' Tournament

Physics Meet Yourself

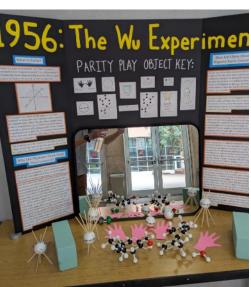




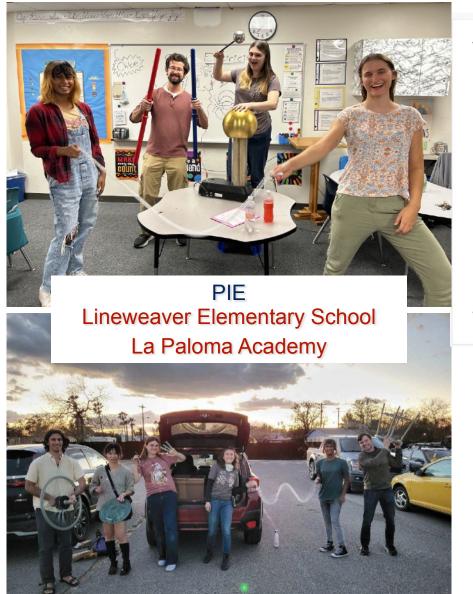




Outreach Activities



Maria Mutz (PhD)
Interactive Physics
History exhibit





Kyle Rine &
Student Volunteers
Physics PHUN Night

Outreach Activities



Science City Exhibition

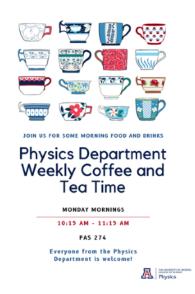


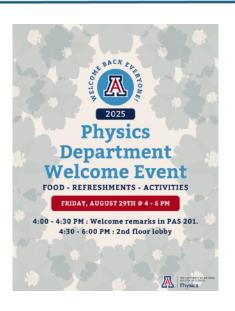


Physics Club, PIE Science Museum Spooktacular Science



Department Life













Department Life









Physics Newsletter

To view this email as a web page, go here.

THE UNIVERSITY OF ARIZONA



Newsletter

DECEMBER 2025 Vol 1. Issue 1.

The Saguaro Spacetimes



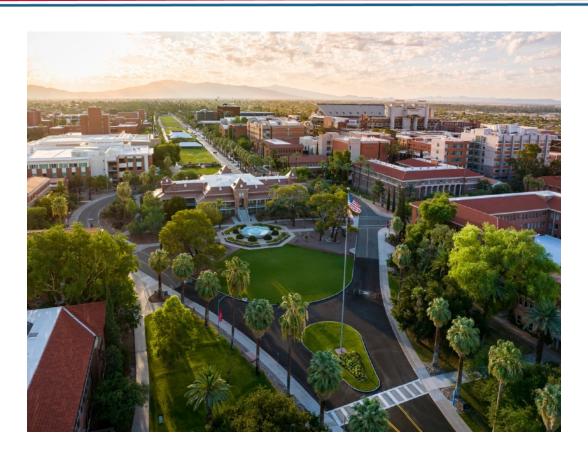
A Message From Our Department Head, Shufang Su

After a pause of almost twenty years, I am delighted to announce the revival of the University of Arizona Physics Department newsletter (previously called *Physics Matters*). With this issue, we relaunch our department's tradition of sharing news, achievements, and reflections from our community under a new name: *The Saguaro Spacetimes*.

HEBUT Exchange Program



World Ranking



UA tied for No. 50 in the world in the Physics Sciences in Times Higher Education's World University Ranking by Subject 2025 No. 24 in the US, No. 11 among US Public Universities

