



Chair's Colloquium: State of the Department

Department of Physics and Astronomy, August 25, 2026



Department Main Office

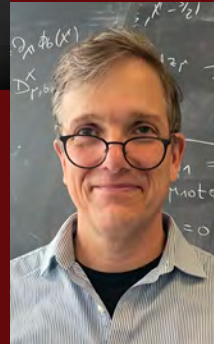
- Chair: Chang Kee (CK) Jung
- Department Administrator/Chief of Staff: Nathan Schappin
- Graduate Program
 - Director: **Derek Teaney**
 - Assistant Director: Donald Sheehan
- Undergraduate Program
 - Director: Dominik Schneble
 - Assistant Director: Diane Diaferia



CK Jung



Nathan Schappin



Derek Teaney



Dominik Schneble



Don Sheehan



Diane Diaferia



Department Main Office

- Lead Business Officer/Grant Manager: Jin Bentley
- Grant Manager: Kacey Jashfar
- Director of Laboratories: James Eksi
- Building Manager: Richard Berscak



Jin Bentley



Kacey Jashfar



James Eksi



Rich Berscak



Technical Support Labs and Shops

- Instructional Labs

- Manager: Frank Chisena

- Technical Staff

- Richard Lefferts

- Luis Rodriguez

- Started in January 2026



Frank Chisena



Rich Lefferts



Luis Rodriguez



Technical Support Labs and Shops

■ Machine and Electronics Shops

- Manager: James Eksi
- Equipment Designer: Jeff Thomas
- Technical Staff: Jason Visentin
- Machinist/Instructional Support Technician:
 - Demetrios Papagermanos
 - Tyler Parachini
 - Started in May 2026
- Electronics Engineer: Vaneet Singh

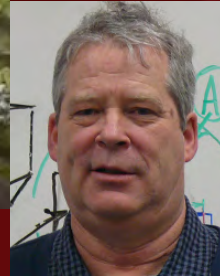
Demetrios Papagermanos

Tyler Parachini

Vaneet Singh



James Eksi



Jeff Thomas



Jason Visentin



Socorro Delquaglio's Retirement

- Joined the Nuclear group in 1988 as an administrator
- Retired on August 21, 2026 after 38 years of outstanding service



**In addition, we have many outstanding support staff for
each research group, institute and center.**

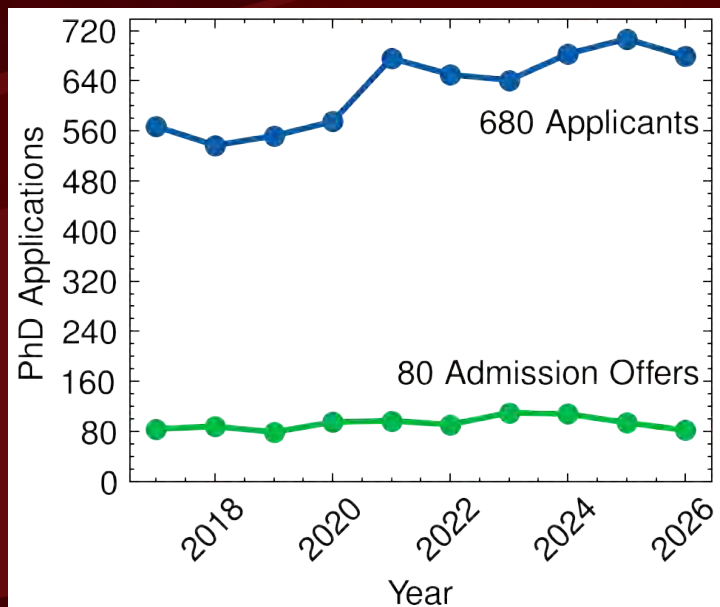
Let's thank all who served the department with their
dedication and welcome all new faculty and staff on various
service positions



Graduate Program: Incoming Graduate Students Class 2026

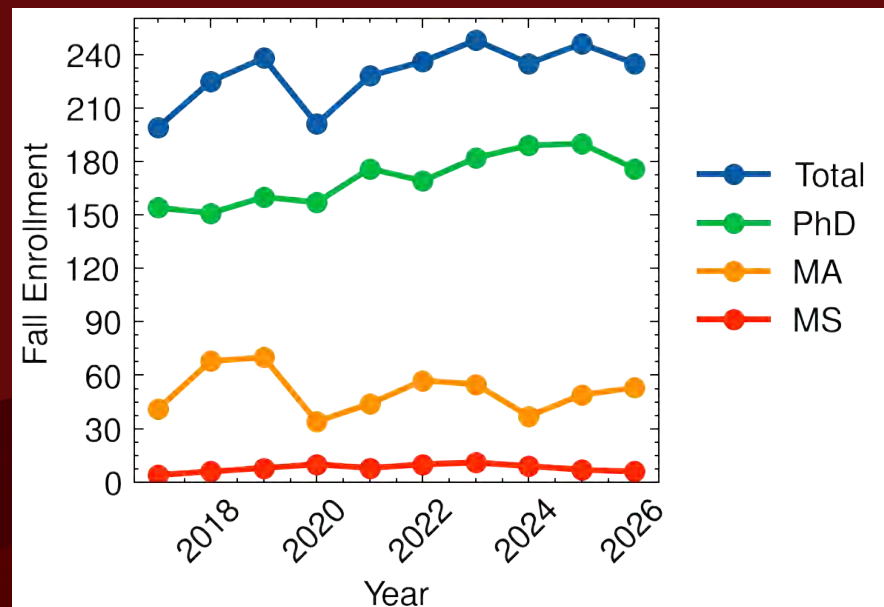
■ Fall 2026

- 21 PhD, 20 MA, 2 MSI, 1 MSQIST (44 total)
- 28 Domestic, 16 International
- 34 Male, 7 Female, 3 Non-Binary



■ 2026 Nationalities

- USA(28), China (6), India(3), Brazil (2), Canada, Dominican Republic, Kazakhstan, Taiwan, Ukraine



Graduate Program: New PhD Students 2026

João Vicente	Universidade Estadual de Londrina	Brazil
Iago Lopes	Federal University of Rio de Janeiro	Brazil
Yunyi Tang	Hong Kong Polytechnic University	China
Nirvesh Joshi	SUNY University at Stony Brook	India
Ricardo Silvestre Carron	University of Colorado Boulder	Dominican Republic
Viktor Ulanov	Columbia University	Ukraine
Aditya Agarwal	SUNY University at Stony Brook	India
Erqian Cai	SUNY University at Stony Brook	China
Chih-Yun Lin	National Taiwan University	Taiwan
Vladislav Vostrikov	City University of New York: Hunter College	Kazakhstan
Abhishek Prakash Cherath	SUNY University at Stony Brook	India
Matthieu Foresi	University of Washington	Canada
Alina Hussain	Illinois Institute of Technology	United States
Ian Johnson	SUNY University at Stony Brook	United States
James Buda	University of California: Irvine	United States
Younos Hashem	Kennesaw State University	United States
Angel Reyes	University of Puerto Rico: Mayaguez	United States
Xavier Braun	SUNY University at Stony Brook	United States
Thomas Tarutin	University of Connecticut	United States
Jake Shin	Princeton University	United States
Mohsen Gheisarieha	SUNY University at Stony Brook	United States

Chair's Colloquium, Aug. 25, 2026

Chang Kee Jung

Dept. of Physics and Astronomy



Stony Brook University

Graduate Program: New Masters Students 2026

Zhehuze Wang	SUNY University at Stony Brook	China
Siu Hung Yip	University of California: Berkeley	Hong Kong S.A.R.
Yichi Zang	Fudan University	China
Lin Feng	University of California: Irvine	China
Michael Harris	Lebanon Valley College	United States
Luke Miller	American University	United States
Andrew Leiker	Amherst College	United States
Gavin Venezia	SUNY University at Binghamton	United States
Declan O'Malley	Vanderbilt University	United States
Matthew Levitt	Drexel University	United States
Jiwon Woo	University of Rochester	United States
Kyle Theberge	University of Florida	United States
Elizabeth Behnke	SUNY College at Oswego	United States
Joshua Kalai	University of Maryland: College Park	United States
Aadit Jain	University of Rochester	United States
Emily Jones	Smith College	United States
Joseph Ribaud	Embry-Riddle Aeronautical University: Prescott Campus	United States
Jorge Rivera	Boston University	United States
Nikhil Murali	University Of Waterloo	United States
Anthony Bernat	University of Illinois at Urbana-Champaign	United States

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Stony Brook University

Let's welcome 2026 incoming graduate students!



Graduate Program: Graduates in 2025/2026

- Fall 2025/Spring 2026/Summer 2026
 - PhD: **30**
 - MSI: **1**
 - MA: **17**
 - MSQIST: **0**



Master of Arts in Teaching (MAT) Program

Stony Brook University Physics Teacher Preparation

Recent MAT Physics Graduates:
2022-2023 – 9 physics teachers
2023-2024 – 3 physics teachers
2024-2025 – 7 physics teachers

Goal:
Chair's 10+ Club

MAT Director: Angela Kelly

<https://www.stonybrook.edu/com/mcms/grad-physics-astronomy/degrees/MAT.php>



2024-25 5+ Club Awardees

- Brigham Young
- Cal State Long Beach
- NJ Center for Teaching & Learning
- Rutgers
- **SUNY Stony Brook**
- University of Central Florida
- Western Governors Univ - Utah



Preservice Teachers Participating
in Science Research

Left to right, students Jennifer Sarcone, Kenneth Cortes and John Pedersen. Not pictured: Anthony Helfrich.



The 5+ Club

Recognizes institutions that graduate
5+ physics teachers in a given year

At the 2026 PhysTEC Conference,
SBU received four awards:

1. 5+ Club
2. 25+ Club (physics teacher graduates in 25 years)
3. Local Impact Award (for quantum outreach)
4. 2025 PhysTEC Local Teacher of the Year: Michael C. Smith (Lindenhurst HS, PhD Candidate in STEM Education)



Undergraduate Programs in PHY and in AST

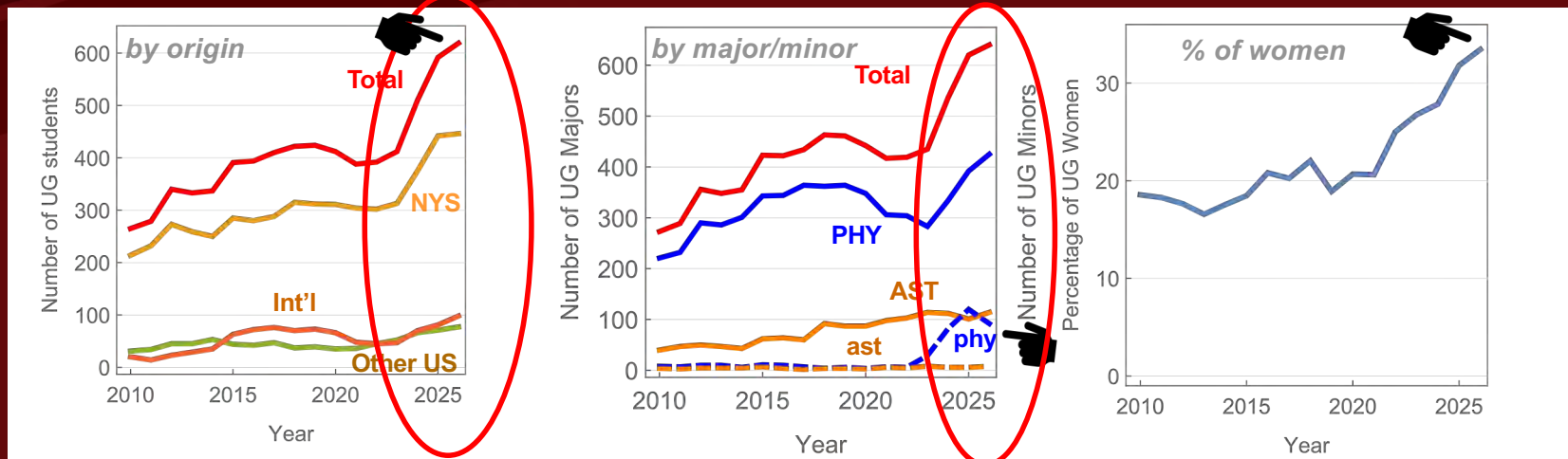
■ Fall 2026 Student Body

- **620** students (72% NYS, 12% other US, 16% international) (~ 60 in 1990)
- Majors: 425 PHY, 114 AST (incl. 20 double majors)
- Minors: 92 phy, 8 ast, 1 opt

640

■ Fall 2026 Diversity

- Domestic: White 29%, Asian 36%, Hispanic/Latino 17%, African American 6%, Other 11%.
- **33% female** (up from 18% in F14)



59 PHY and 12 AST bachelor's degrees awarded in 2025/26



Stony Brook Institute at Anhui University (SBIAHU)

■ 2025 Arrival Students (16)

Gan,Xiaozhen	Wu,Yihe
Hang,Haiqing	Yao,Jialing
Liu,Taiming	Yi,Junjie
Li,Xiaorui	Yu,Chengyuan
Ouyang,Yifan	Yu,Haolin
Shan,Shuya	Zhang,Xiaonan
Song,Zirui	Zhu,Yijiang
Tong,Zeqian	
Wang,Zhehuze	

■ 2026 Arrival Students (13)

Chen,Junyan	Ma,Qiyun
Chen,Yezeyuan	Tao,Xubowen
Chen,Yiwen	Wang,Jierui
Feng,Haoxu	Yu,Yang
Lin,Xi	
Liu,Chengyu	
Liu,Chenyu	
Liu,Xinyi	
Liu,Yuanhe	

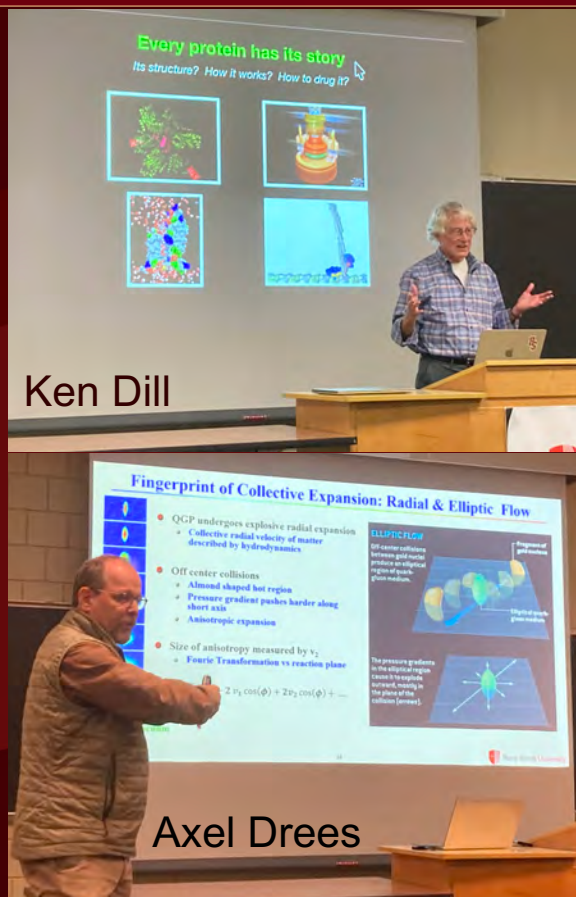
**The first 3 (2) years at Anhui and the last 1 (2) years at
Stony Brook → Welcome to Stony Brook!**



The 4th Undergraduate Research Day Faculty Presentations



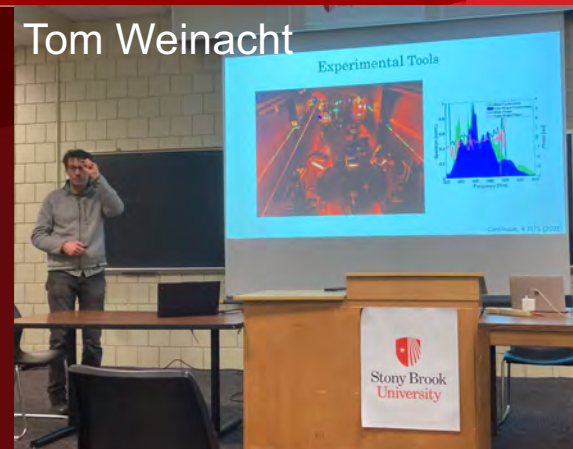
Dominik Schneble



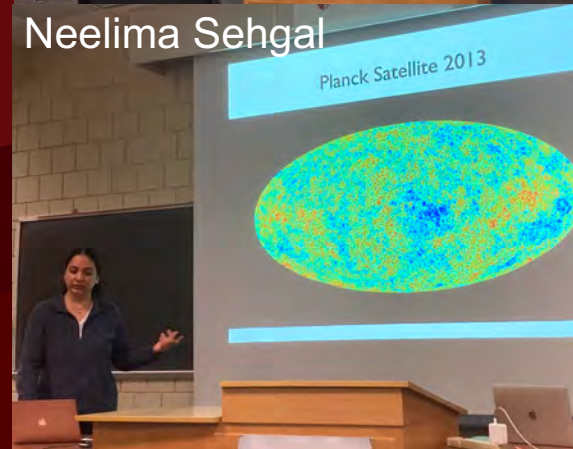
Ken Dill

Axel Drees

Tom Weinacht



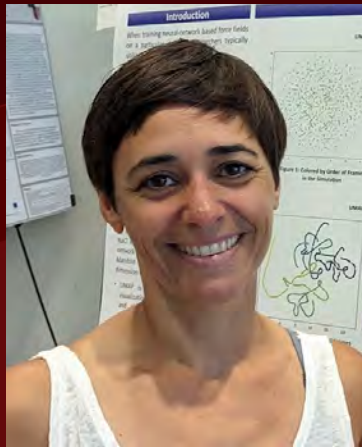
Neelima Sehgal



The 4th Undergraduate Research Day Poster Presentations: Honorable Faculty Judges



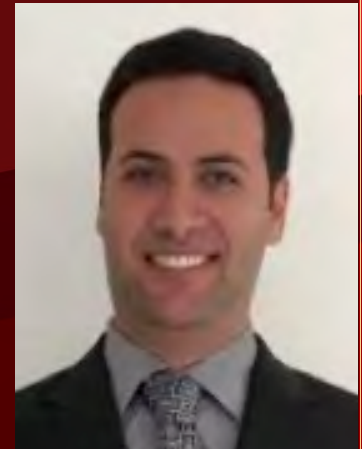
Phil Armitage



Marivi Fernandez-Serra



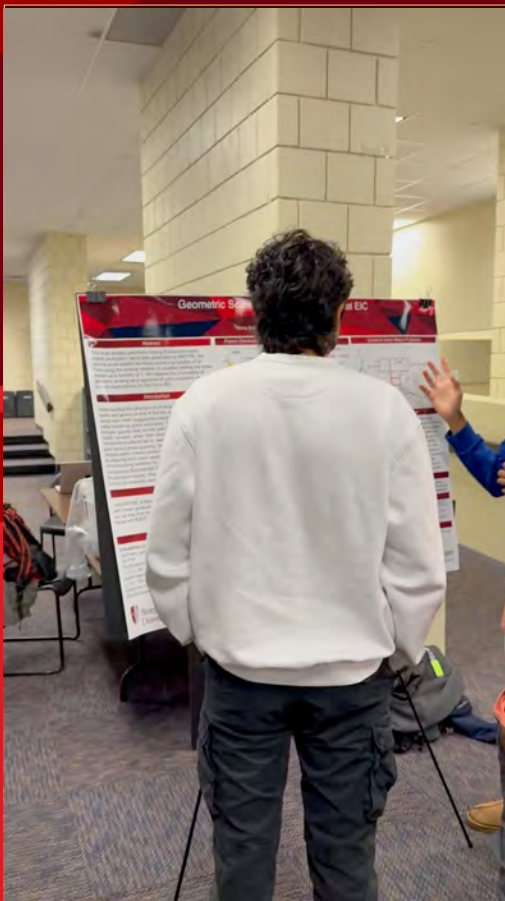
Jesús Pérez Ríos



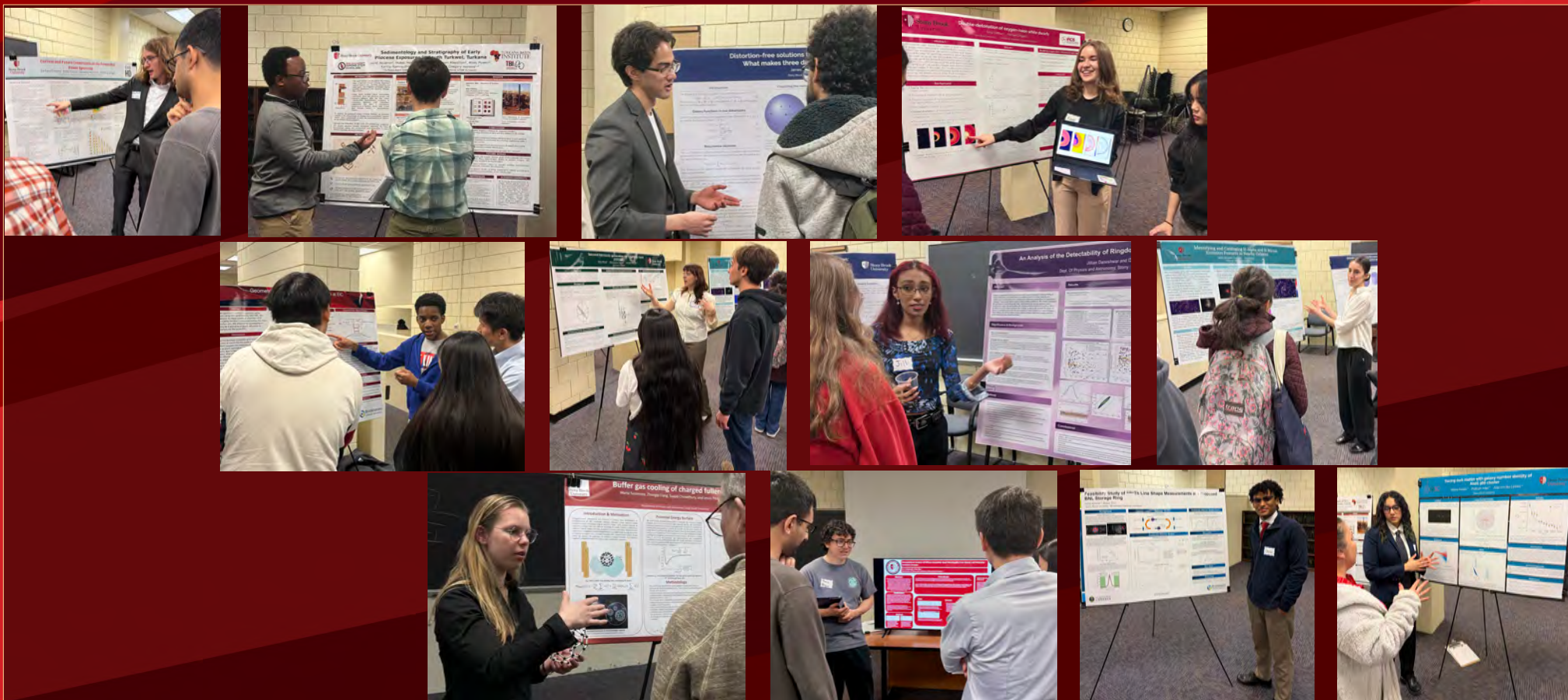
Navid Vafaei-Najafabadi



4th Undergraduate Research Day Poster Presentations



4th Undergraduate Research Day Poster Presentations



Chair's Colloquium, Aug. 25, 2026

Chang Kee Jung

Dept. of Physics and Astronomy



Stony Brook University

4th Undergrad Colloquium Speakers (selected from the poster presentations)



Zack Cheslog



Rose Hoffren



Rojae Mighty



Maria Sazonova



4th Undergrad Colloquium



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Dept. of Physics and Astronomy



Stony Brook SPS Wins National Recognition for **Fourth Consecutive** Year!

- The National Council of Society of Physics Students (SPS) has reviewed all chapter reports and **has awarded the Stony Brook University SPS Chapter as a 2024-25 Outstanding Chapter** continuing the streak started with the recognition three years ago for their same outstanding efforts!



Faculty Promotions



Vladimir Korepin

Professor to SUNY Distinguished Professor



Joanna Kiryluk

Associate Professor to Full Professor

Tom Allison
Associate Professor to Full Professor



New Faculty Members



Yeonju Go

Assistant Professor

Nuclear Physics Experiment

(Aug. 17, 2026)



Stas Baturin

Assistant Professor

Accelerator Physics

(Jan. 2027)

Jacob Pettine

Assistant Professor

Simons Empire Faculty Fellow

Condensed Matter Experiment

(Jan. 2027)

Currently Adjunct Professor



All searches in AY25-26 (as
were in AY23-24) have resulted
in the first choice candidates
committing to our department!



Retirement of Dmitri Kharzeev

- Got Ph.D. from Moscow State University in 1990
- Came to Stony Brook in 2010
 - Held a joint position with BNL
- Served as the Director of the Center for Nuclear Theory





In Memoriam C.N. "Frank" Yang
1922 – 2025

One of the most profound thinkers in history
The most influential theoretical physicist after World War II –
Modern Day Einstein

We will miss him greatly and his legacy will live on at Stony Brook ...

C.N. “Frank” Yang Memorial Events

- C.N. “Frank” Yang and Stony Brook Event, March 12, 2026
- The 5th C.N. Yang Colloquium, September 15, 2026
- C.N. Yang Memorial Symposium, October 13-14, 2026
 - "C.N. Yang and themes in contemporary physics"
 - The program has been recently finalized
 - Excellent speakers including, Juan Maldacena, Chris Quigg, Cumrun Vafa, ...
- Public Lecture, C.N. Yang by George Sterman, October 16, 2026



C.N. “Frank” Yang and Stony Brook Event March 12, 2026

- The event went smoothly and very well
 - Many interesting talks with new and previously untold insights and stories
 - The university event organizing team and the Wang Center audio/visual team did exceptional job
- The President (Andrea) stayed for the whole event
- Special guests
 - Gil and Mary Yang
 - Marilyn Simons
 - ...
- Event Recordings
 - On YouTube: <https://youtube.com/live/81aIKuy6KKs>
 - Full high resolution recording is available on the department webpage



C.N. “Frank” Yang and Stony Brook Event March 12, 2026



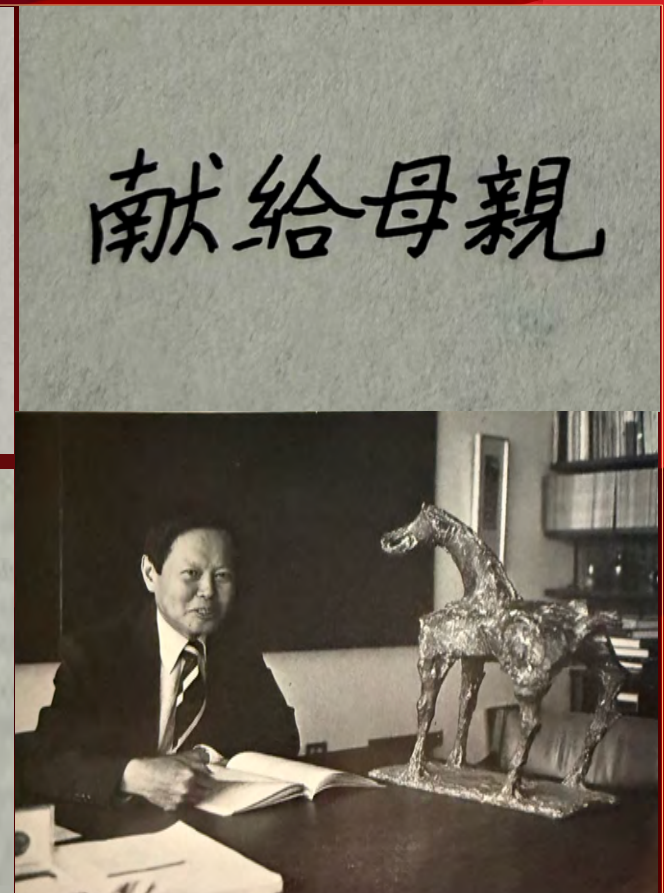
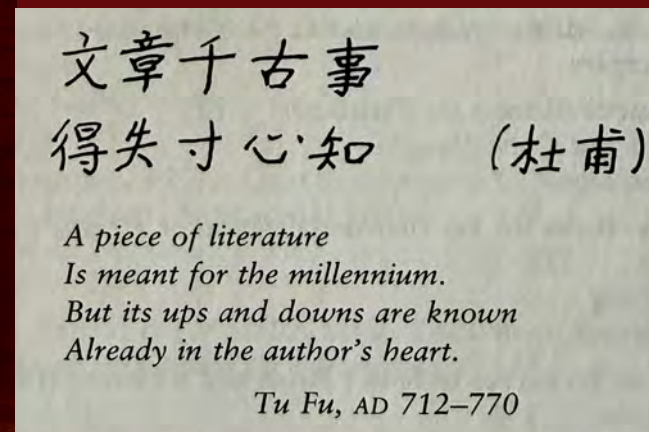
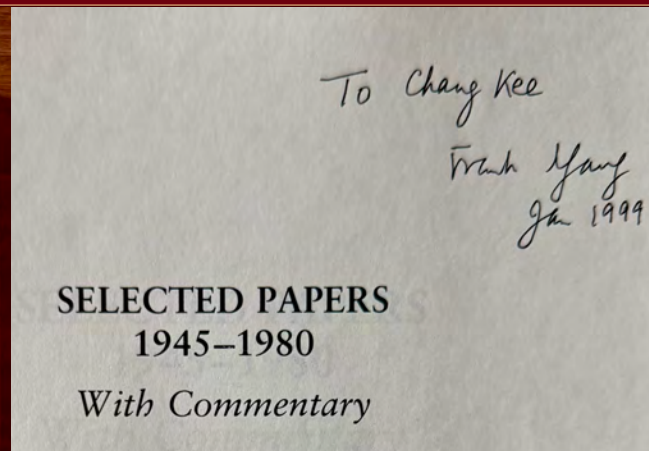
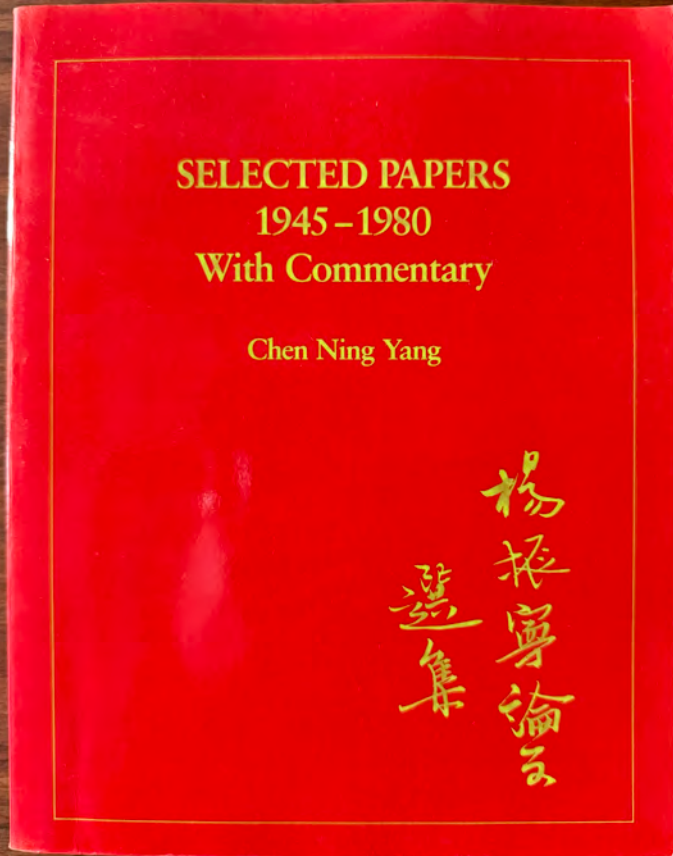
Chair's Colloquium, Aug. 25, 2026

Chang Kee Jung

Dept. of Physics and Astronomy



Frank Yang's Book: "Selected Papers (1945 – 1980) with Commentary"



Late Pat Peiliker



*Our dear friend and former colleague Pat Peiliker passed away last Tuesday, 7 April. For **almost 40 years** she was the valuable friend and trusted confidante to every single grad student. She enabled over **1000 Ph.D.** completions during her career as **Assistant to the Graduate Program Director**, until her retirement in 2010. - Hal Metcalf*

Notable Events



C.N. Yang Colloquium Series (established in 2022)

 Inaugural Colloquium of the C.N. Yang Colloquium Series

Probing the Universe with Gravitational Waves

Dr. Barry Barish
Nobel Laureate 2017

September 6, 2022
Coffee/Tea: 4:00pm, Simons Center Cafe
Lecture: 4:30pm, Della Pietra Family Auditorium, SCGP Room 103
Reception immediately following the talk



Stony Brook University
Department of Physics and Astronomy C.N. Yang Institute for Theoretical Physics Simons Center for Geometry and Physics

Barry Barish

 The Second Colloquium of the C.N. Yang Colloquium Series

Quantum Science with Giant Atoms

Prof. Serge Haroche
Collège de France and Laboratoire Kastler Brossel, Paris
Nobel Prize in Physics 2012

September 19, 2023
Coffee/Tea: 3:45pm, Simons Center Lobby
Lecture: 4:15pm, Della Pietra Family Auditorium, Simons Center Room 103



Stony Brook University
Department of Physics and Astronomy C.N. Yang Institute for Theoretical Physics Simons Center for Geometry and Physics

Serge Haroche

 The Third Colloquium of the C.N. Yang Colloquium Series

A Half Century of Quantum Chromodynamics (QCD)

Prof. David Gross
Kavli Institute for Theoretical Physics (KITP)
University of California, Santa Barbara
Nobel Prize in Physics 2004

September 17, 2024
Coffee/Tea: 3:15pm, Simons Center Lobby
Lecture: 3:45pm, Della Pietra Family Auditorium, Simons Center Room 103



Stony Brook University
Department of Physics and Astronomy C.N. Yang Institute for Theoretical Physics Simons Center for Geometry and Physics

David Gross

 The Fourth Colloquium of the C.N. Yang Colloquium Series

Exoplanet and Life in the Universe

Prof. Didier Queloz
Jacksonian Professor of Natural Philosophy
Director of the ICLU Centre
University of Cambridge
Centre for Origin and Prevalence of Life (COPL)
ETH Zurich
Nobel Prize in Physics 2019

September 16, 2025
Coffee/Tea: 3:15pm, Simons Center Lobby
Lecture: 3:45pm, Della Pietra Family Auditorium, SCGP Room 103



Stony Brook University
Department of Physics and Astronomy C.N. Yang Institute for Theoretical Physics Simons Center for Geometry and Physics

Didier Queloz

Chair's Colloquium, Aug. 25, 2026

Chang Kee Jung

Dept. of Physics and Astronomy



Stony Brook University

The 4th C.N. Yang Colloquium September 16, 2025



Chair's Colloquium, Aug. 25, 2026

Chang Kee Jung

Dept. of Physics and Astronomy



Stony Brook University

The 4th C.N. Yang Colloquium

September 16, 2025



Chair's Colloquium, Aug. 25, 2026

Chang Kee Jung

Dept. of Physics and Astronomy



Stony Brook University

The 5th C.N. Yang Colloquium

September 15, 2026

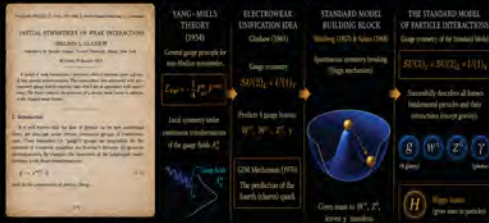


The Fifth Colloquium of
the C.N. Yang Colloquium Series

My Memories of Frank Yang

FROM YANG-MILLS THEORY TO THE STANDARD MODEL

A beautiful idea becomes the theory of nature.



Glashow (1961) First step toward the
unification of weak and electromagnetic interactions.

"Look deep into nature, and then you will understand everything better." — C. N. Yang

Dr. Sheldon Glashow
Nobel Prize in Physics 1979

September 15, 2026
Coffee/Tea: 3:15pm, Simons Center Lobby
Lecture: 3:45pm, Della Pietra Family
Auditorium, SCGP Room 103



Stony Brook University

Department of Physics and Astronomy C.N. Yang Institute for Theoretical Physics Simons Center for Geometry and Physics

Emmett L. Gebb
20xx Nobel Prize?

Sheldon Glashow
1979 Nobel Prize

Barry Barish
2017 Nobel Prize

The 5th C.N. Yang Colloquium
by Sheldon (Shelly) Glashow, Nobel
Laureate 1979

*"The originator of the electroweak
unification theory and a key architect of
the Standard Model"*



PHY390 "Frontiers of Physics and Astrophysics"

Chair's Colloquium, Aug. 25, 2026

Chang Kee Jung

Dept. of Physics and Astronomy



Stony Brook University

50 Years of Jets: Celebrating the Science of George Sterman

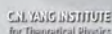
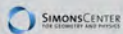
50 YEARS OF JETS: CELEBRATING THE SCIENCE OF GEORGE STERMAN

MAY 18-20, 2026



Organized by:
Rouven Essig, Stony Brook University
Patrick Meade, Stony Brook University
Luis Alvarez-Gaume, Simons Center for Geometry & Physics

For more information visit: scgp.stonybrook.edu



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Stony Brook University

Supergravity at 50 (Peter Van Nieuwenhuizen et al.)

SUPERGRAVITY
at **50** Years

$$\mathcal{L} = R - \bar{\psi}_\mu \gamma^{\mu\rho\sigma} D_\rho \psi_\sigma$$

Supergravity at 3 Years
Supergravity at 25 Years

Stony Brook University, SUNY
Simons Center for Geometry & Physics
June 2-4, 2026

Talks are in-person in SCGP 103 sugra2026@scgp.stonybrook.edu

 SIMONS CENTER
for the study of the physical sciences

 C.N. YANG INSTITUTE
for Theoretical Physics

 Stony Brook University



The first truly
compelling and
mathematically
elegant unification
of gravity with
quantum principles



Faculty/Staff Honors: Prizes, Awards and Significant Recognitions



Ken Dill to Receive Biophysical Society's 2026 Founder's Award

BETHESDA, MD – The Biophysical Society is pleased to announce that Ken A. Dill, of Stony Brook University, USA, will receive the Society's 2026 Founders Award. Dill will be honored at the Society's 70th Annual Meeting, being held in San Francisco, California from February 21-25, 2026.

Dill is being honored for his work on the protein folding problem and the development of statistical mechanical theories and foundational principles in biophysics.

About the Award - The Founders Award is given to scientists for outstanding achievement in any area of biophysics, often reflected in the acceptance of and use by others in the field, either promptly or over a period of years.

Congratulations to Ken!



Honorary Doctorate to George Serman

Distinguished Professor George Serman Awarded Honorary Doctorate at ETH Zurich

📅 January 5, 2026 ⌚ 3 min read

Stony Brook University SUNY Distinguished Professor George Serman, director of the [C.N. Yang Institute for Theoretical Physics](#), has been awarded an honorary doctorate at the [ETH \(University\) Zurich](#) in Switzerland.

ETH Zurich awards honorary doctorates to individuals in recognition of their outstanding scientific work and to honor their significant achievements in science, teaching and practice or in the synthesis of research and practical work.

Serman was selected "for his groundbreaking



2026 SUNY Chancellor's Award for Excellence



**Dominik Schneble Receives
SUNY Chancellor's Award for Excellence in
Scholarship and Creative Activities**



**Alan Calder Receives
SUNY Chancellor's Award for Excellence in
Teaching**

Congratulations!!





Professor Neelima Sehgal Elected as an American Physical Society Fellow

SBU Professor Neelima Sehgal has been elected as an American Physical Society (APS) Fellow joining other APS fellows in the Physics & Astronomy Department.

"For pioneering work on the cosmic microwave background, especially for the conceptual development of a next-generation, high-resolution cosmic microwave background observatory."

Congratulations to Neelima!



Simon Birrer Wins DOE Early Career Award



Simon Birrer Receives Department of Energy Early Career Research Program Award

January 9, 2026 3 min read

Simon Birrer, assistant professor in the [Department of Physics and Astronomy](#) in Stony Brook University's [College of Arts and Sciences](#), has been awarded a U.S. Department of Energy (DoE) Early Career Research Program Award for \$875,000.

This DoE award was established to support outstanding early career scientists at universities, national laboratories and office of science user facilities.

Birrer's proposal was selected for his





Jesus Perez Rios Wins NSF CAREER Award for Few-Body Physics Research

Jesus Perez Rios, an assistant professor in the P&A Department, has received the U.S. National Science Foundation (NSF) CAREER Award for his project, "Few-Body Processes Including Ions, Atoms and Molecules: From Plasma Physics to Cold Chemistry."

[SEE MORE >](#)

Exceptional Congratulations to Jesus!



Jesús Pérez Ríos wins a 2026 Stony Brook Trustees Faculty Award



Jesús Pérez Ríos's application, entitled “Ultracold chemistry in charged-neutral systems” has been selected for a 2026 Stony Brook Trustees Faculty Award



2025-2026 P&A Outstanding Faculty Award



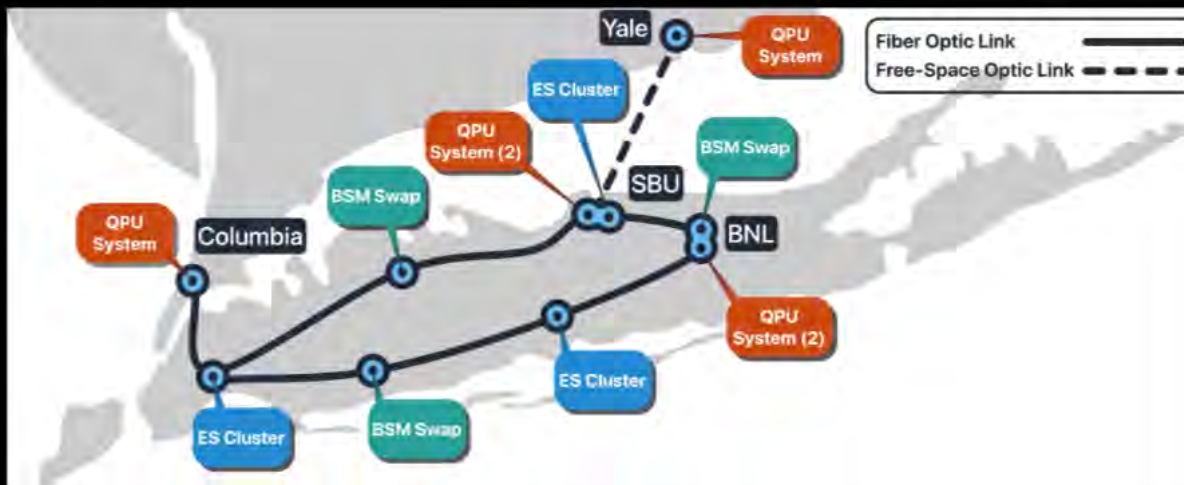
Valerio Dao



Quantum Rising at Stony Brook P&A

Quantum Information Science and Technology (QIST),
AMO and Quantum Materials (CM)





SBU-Led Team Receives \$4M NSF Grant to Develop 10-Node Quantum Network

A Stony Brook University-led team has been awarded a National Science Foundation (NSF) grant supporting the National Quantum Virtual Laboratory (NQVL) Quantum Testbeds.

[SEE MORE >](#)



Governor Hochul Announces \$300M Investment in Quantum Research and Innovation Hub

SUNY Stony Brook has received a \$300 million investment to establish the Quantum Research and Innovation Hub. The funding will fuel New York's research excellence and help build a faster, smarter, and more secure internet.

[SEE MORE >](#)



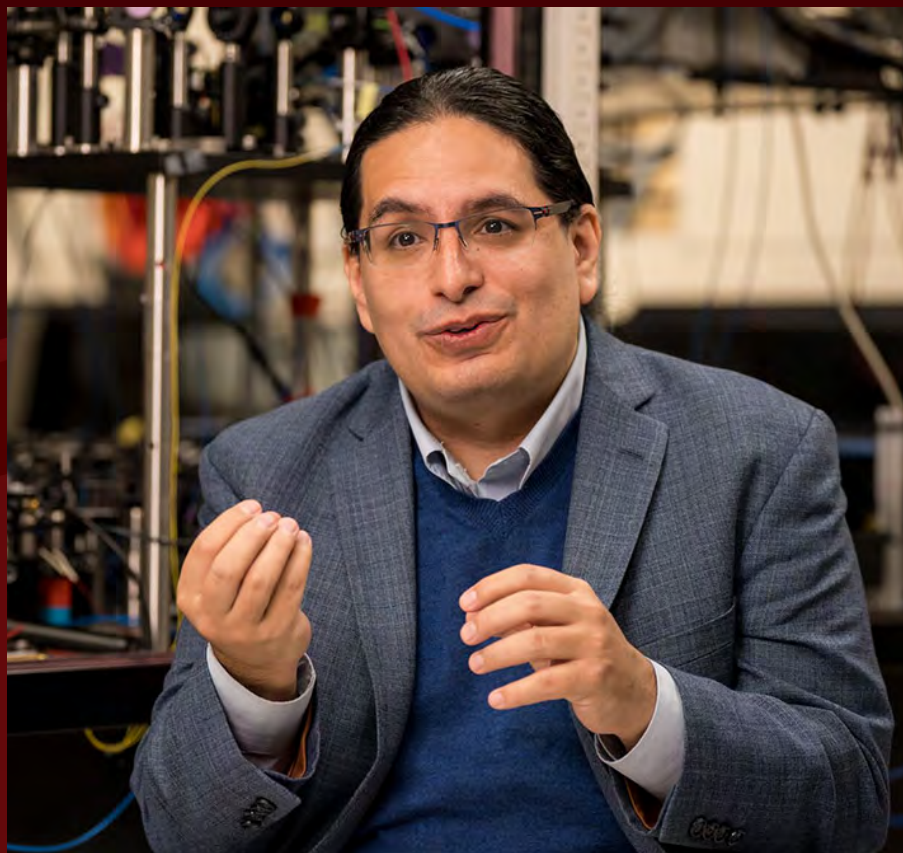
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Chang Kee Jung

Dept. of Physics and Astronomy

 Stony Brook University

Eden Figueroa named the Director of Stony Brook Quantum Institute



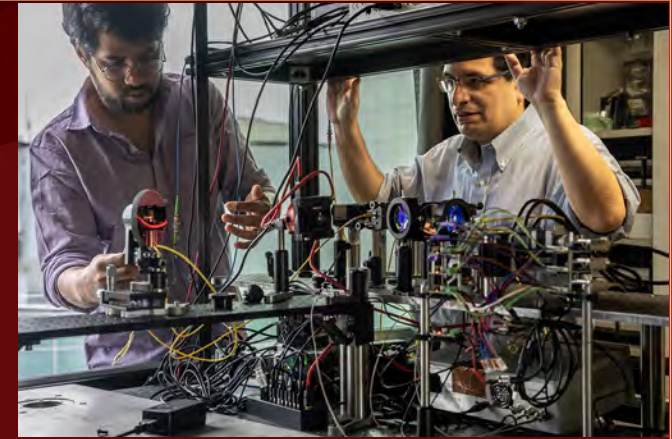
Huge Congratulations to Eden!!!



First Transmission of Entangled Photons via SBU - BNL FSO Telescopes



DOE Under Secretary for Science et al.



The next step, a three node FSO quantum network connecting BNL – SBU – Yale

If successful, this could become the world's first demonstration of its kind, a significant milestone on the path toward the quantum internet and distributed quantum computing.



Quantum Education Outreach (2023-26)

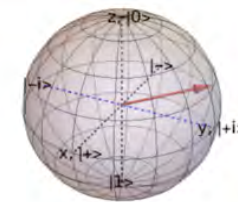
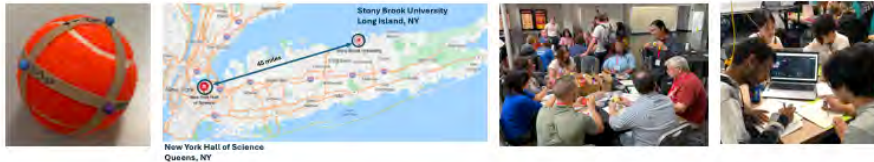


Tzu-Chieh Wei, Dominik Schneble, Angela Kelly
PostDoc: Zijian Song

Participants to Date:

- 132 middle & high school teachers in training workshops
- 224 high school students in 25-hour summer outreach at SBU and NY Hall of Science
- 303 high school students in one-day quantum teaching labs (QTLs)
- 197 middle school students in one-day QTLs
- 152 school district leaders at the International Year of Quantum Conference at SBU

QSEEC Best Paper Award: Kelly, Schneble, Wei. (2025). Outcomes of an International Year of Quantum K-12 Educational Leadership Conference. *IEEE Quantum Science and Engineering Education Conference*, Albuquerque, NM.



Select Papers (*PhD Students in STEM Educ)

- De La Cruz,* Kelly, Wei, Schneble (2026). Academic and demographic predictors of high school student knowledge of classical physics, quantum physics, and quantum computing in university-based outreach. *EJP Quantum Tech*, 13(73).
- Kelly, Wei, Schneble, Darioenzo* (2025). Exploratory factor analysis of a precollege quantum information science and technology survey: Exploring career aspiration formation and student interest. *EJP Quantum Tech*, 12(11).
- Schneble, Wei, Kelly (2025). Quantum information science and technology secondary outreach: Conceptual progressions for introducing principles and programming skills. *Am J Phys*, 93(1), 88–97.
- Darioenzo,* Kelly, Wei, Schneble (2024). Students' attitudes towards quantum information science and technology in a high school outreach program. *Phys Rev Phys Educ Res*, 20(2), 020126.
- Kelly, Darioenzo,* Wei, Schneble (2024). Quantum information science and technology professional learning for secondary science, technology, engineering, and mathematics teachers. *Phys Rev Phys Educ Res*, 20(2), 020154.



**Let's congratulate the faculty members for their
promotions, retirements and honors, and welcome new
faculty members!!!**

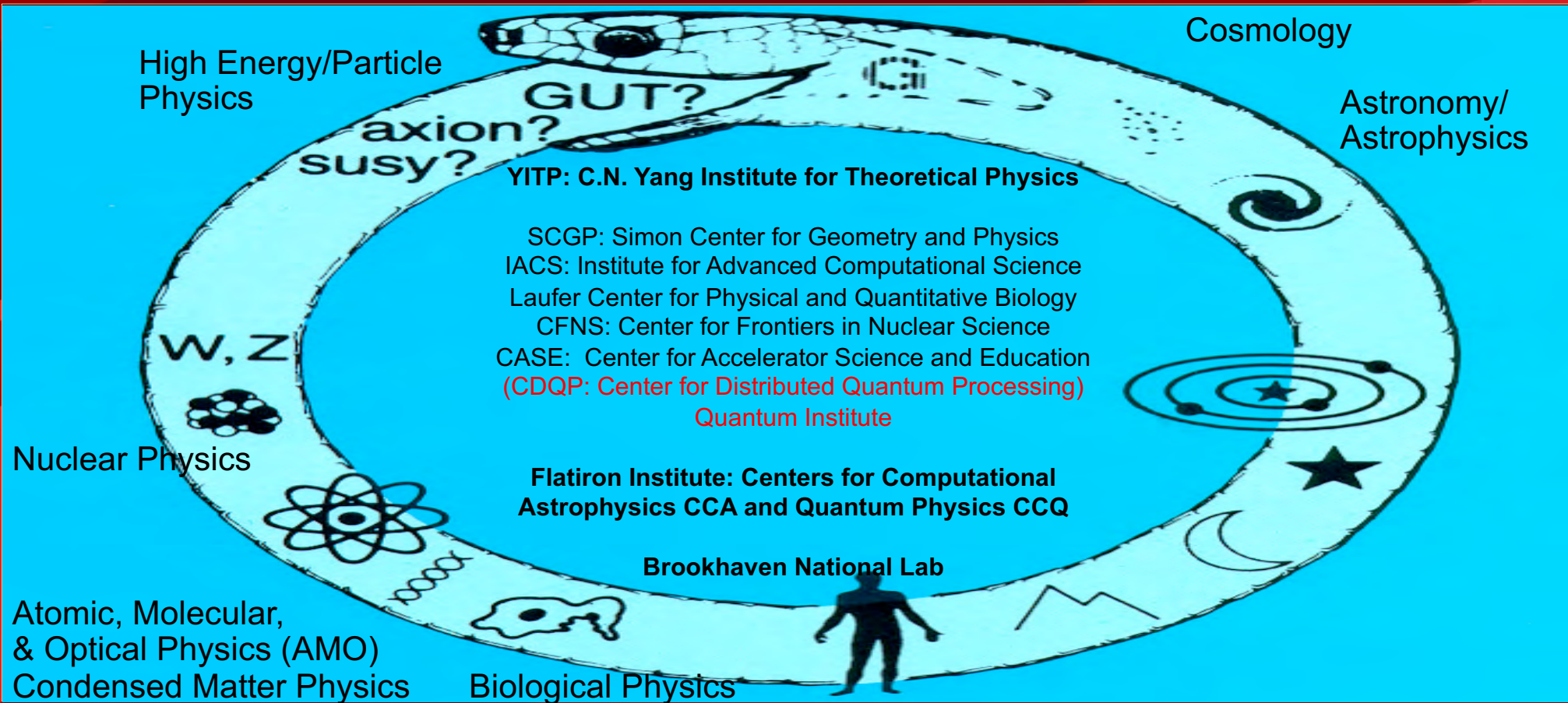


A “Super-Compactified” Survey of Research Activities in the Department

Apologies for not being able to include all valuable contributions and possible inaccurate representation of the materials



Research Areas, Centers and Affiliated Institutions



Astronomy/Astrophysics and Cosmology



Phil Armitage



Alan Calder



Simon Birrer



Will Farr



Jin Koda



Ken Lanzetta



Jim Lattimer



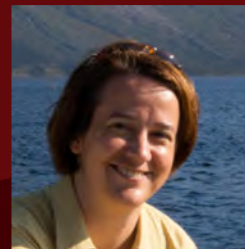
Vivian
Miranda YITP



Rosalba Perna



Neelima
Sehgal



Anja v.d. Linden

Search in AY26-27
To start in Fall 2027

New Assis. Prof.



Mike Zingale



Astronomy/Astrophysics and Cosmology

ASTRO GROUP: RESEARCH OVERVIEW

Overarching goal of: Understanding the origin and evolution of our Universe, and the physical properties of the objects in them.

In particular:

- Study of the early Universe with CMB observations (Sehgal, Miranda)
- Constrain Dark Matter and Dark energy via galaxy observations (von der Linden, Miranda, Sehgal, Birrer, Slosar), gravitational wave observations (Farr, Lattimer, Perna), and gravitational lensing (von der Linden, Sehgal, Perna, Birrer)
- Learn about galaxy properties and their evolution (von der Linden, Lanzetta, Birrer)
- Learn about properties of exotic compact objects (white dwarfs, neutron stars, black holes) both with observations (Lattimer) and with theoretical/computational methods (Lattimer, Zingale, Calder, Perna, Farr, Armitage, Swesty)
- Learn about the planetary systems outside of our solar system (Armitage, Farr, Perna).



Selected List of Papers (with SBU students in blue)

- "Benchmarking with Supernovae: A Performance Study of the FLASH Code." **J. Martin, C. Feldman**, et al. Proceedings of PEARC 24 (Practice and Experience in Advanced Research Computing), 8, 1-9, 2024. Best Student Paper Prize.
- "3D Convective Urca Process in a Simmering White Dwarf." **B. Boyd**, et al. ApJ 979 216, 2025
- "Hydrodynamic Simulations of Tidal Disruption Encores", **Ian Johnson**, T. Ryu, R. Perna, PRD, 113, 3032 (2026)
- "The Growth of the Central Black Holes in Quasi-stars", **Jake Hassan**, R. Perna et al., ApJ, 998, 65 (2026)
- "Sensitivity of Simulations of Double-detonation Type Ia supernovae to Integration Methodology", M. Zingale, M., **Z. Chen, M. Rasmussen**, A. Polin, M. Katz, **A. Smith Clark, E. Johnson**, ApJ 966, 150, 2024
- "CMB-HD as a Probe of Dark Matter on Sub-galactic scales", **A. MacInnis** and N. Sehgal, JCAP 02, 2025
- "Introducing the Condor Array Telescope. 1. Motivation, Configuration, and Performance," K. Lanzetta, S. Gromoll, M. Shara, **S. Berg**, D. Valls-Gabaud, F. Walter, J. Webb, PASP 1043, id. 015002, 2023
- "Introducing the Condor Array Telescope. II. Deep Imaging Observations of the Edge-On Spiral Galaxy NGC 5907 and the NGC 5866 Group: Yet Another View of the Iconic Stellar Stream," K. Lanzetta, S. Gromoll, M. Shara, **S. Berg**, J. Garland, **E. Mancini**, D. Valls-Gabaud, F. Walter, J. Webb, MNRAS 529, 197, 2024
- "Compiled properties of nucleonic matter and nuclear and neutron star models from nonrelativistic and relativistic interactions," **B. Sun, S. Bhattiprolu**, J. M. Lattimer, Phys. Rev. C 109, 055801, 2024
- "Galaxy Clustering with LSST: Effects of Number Count Bias from Blending", **B. Levine** et al., OJAP, 8, 38, 2025
- "Cosmology with Binary Neutron Stars: Does Mass-Redshift Correlation Matter?", **Soumendra Kishore Roy**, Lieke van Son, Anarya Ray, & Will M. Farr, ApJL, 985, L33, 2025.
- "GW231123: a Binary Black Hole Merger with Total Mass 190-265 M_{Sun} ", LIGO, Virgo, and KAGRA collaborations, including **Nicole Khusid** and **Soumendra Kishore Roy**, arXiv:2507.08219
- "TDCOSMO: XXII. Triaxiality and projection effects in time-delay cosmography" **X. Huang** et al., A&A 705 A150, 2026

Computational and Nuclear Astrophysics

- Faculty / Postdocs

- Alan Calder
- James Lattimer
- Doug Swesty
- Michael Zingale
- Rosalba Perna
- Phil Armitage
- Konstantinos Kritos

- Research Interests

- Supernovae (both kinds)
- X-ray bursts and novae
- Magnetars
- Accretion disks
- Neutron star interiors
- Gravitational Radiation
- Tidal Disruption Events
- High performance computing
- Verification and Validation
- Open science / reproducibility

- Grad Students

- Khanak Bhargava
- Zhi Chen
- Josh Martin
- Melissa Rasmussen
- Boyang Sun
- Zhehuze Wang
- Jake Hassan
- Ian Johnson
- Reth Lopes

- Undergrads

- Rose Hoffren
- Ronan Malga

- Graduated in the past year

- Brendan Boyd
- Sabina Sagynbayeva

Background image: merging white dwarf calculation run with our Castro hydrodynamics code.

Stony Brook Cosmology (AST, BNL, Flatiron, YITP)

Faculty

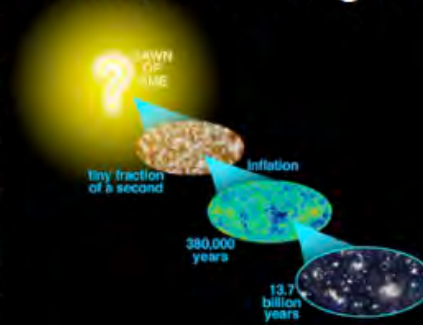
- Simon Birrer
- Will Farr
- Anja von der Linden
- Vivian Miranda
- Rosalba Perna
- Neelima Sehgal
- Anze Slosar

Students

- Postdocs = 4
- PhD students = 9
- Masters students = 6
- Undergrad students = 10

Research

Theoretical and observational cosmology: black holes, inflation, cosmic microwave background, dark energy, dark matter, galaxies and galaxy clusters, gravitational lensing, large-scale structure, neutrinos, 21 cm, gravitational waves



LIGO

Simons Observatory and CMB-HD



Rubin Observatory



ACADEMICS RESEARCH UNIVERSITY

SBU Physics and Astronomy Faculty and Students Prepare to Measure the Universe

June 23, 2025 5 min read

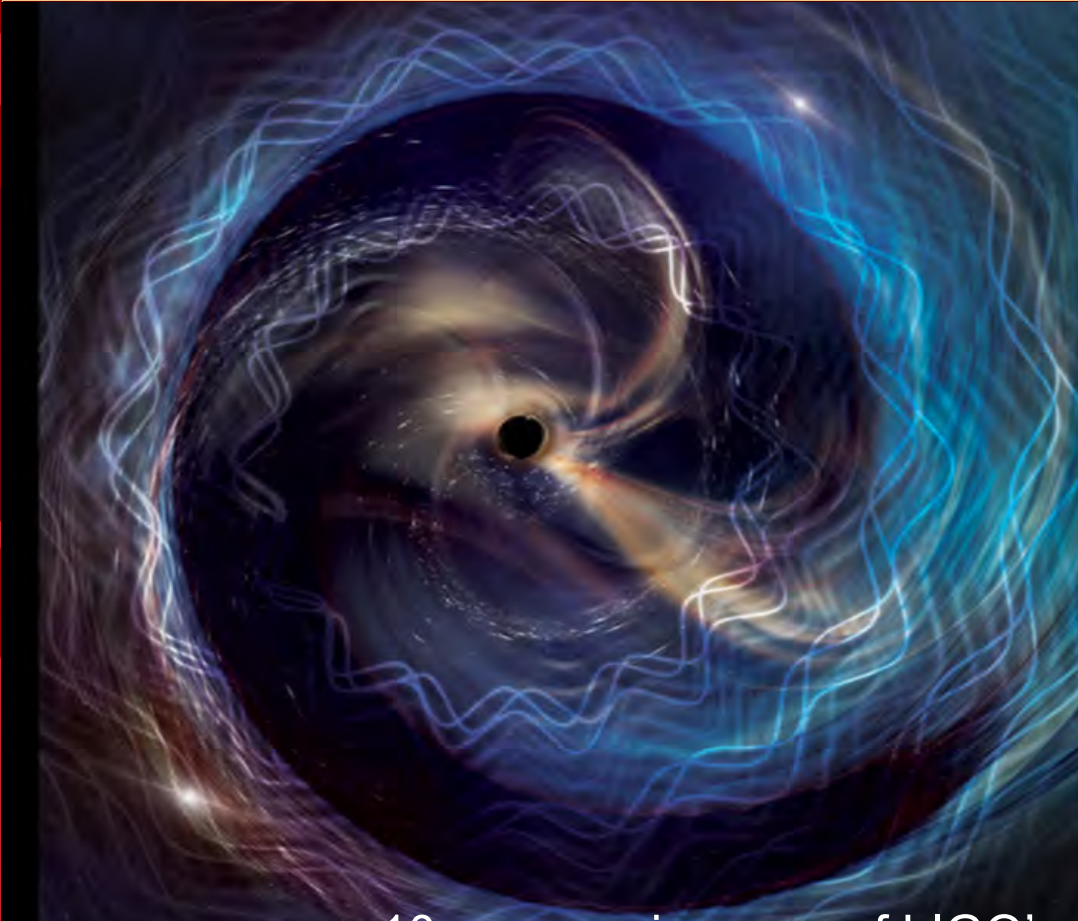
Newly Constructed Rubin Observatory in Chile Ready to 10-year Ultra-Wide, Ultra-Deep Movie of the Sky

Stony Brook University professors — along with post-doctoral, graduate and undergraduate students — from the Department of Physics and Astronomy are preparing to measure the Universe with the newly constructed National Science Foundation (NSF)-Department of Energy (DOE) [Vera C. Rubin Observatory](#) in Chile.

Rubin Observatory's First Look

Faculty: von der Linden, Birrer, Miranda, Sehgal
Students: Adari, Huang, Levine, Srinivasan, Sharma





Astronomers Get Best View Yet of Two Merging Black Holes

Associate Professor Will Farr and graduate student Nicole Khusid have been part of a worldwide team of researchers who have used the loudest black hole merger detected to date to help identify how black holes work, confirming theoretical predictions about black hole spacetimes.

[SEE MORE >](#)

10 year anniversary of LIGO's discovery of gravitational waves

Congratulations to Will and Barry!

Atomic, Molecular and Optical (AMO) Physics Group

Stony Brook AMO

New EIP (Associate or Full) Professor in QIST

Search in AY26-27 to start in Fall 2027



Jesus Pérez Ríos



Thomas Allison



Eden Figueroa



Ash Kumar



Thomas Weinacht



Harold Metcalf



Dominik Schneble



Theory

Ultrafast

Ultracold atoms, Quantum Information

Several positions are available for Ph.D. and Masters students

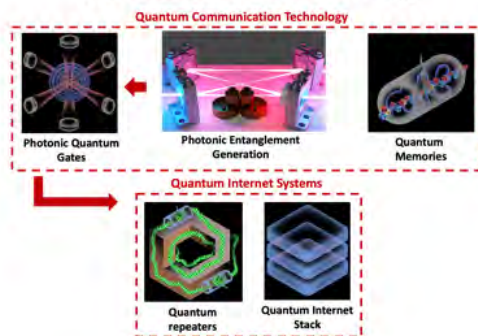


AMO Physics Group: Research

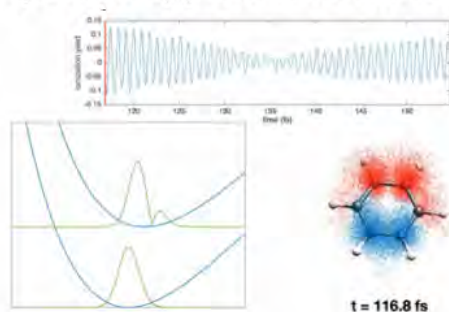
Pérez Ríos group:
Theoretical AMO physics



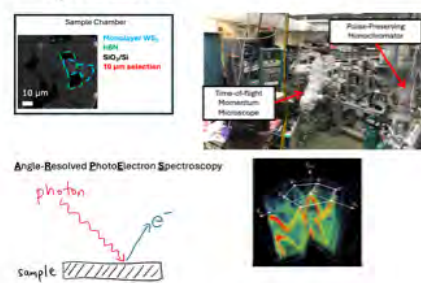
Figueroa group: **Quantum information technology**



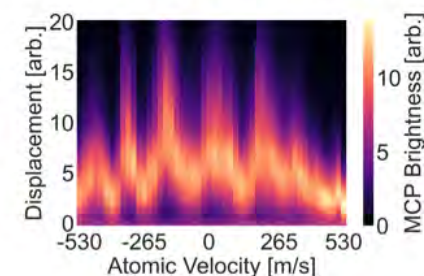
Weinacht group: **Ultrafast spectroscopy and coherent control**



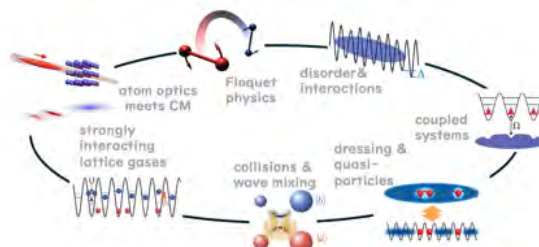
Allison Group: **Frequency combs and ultrafast dynamics**



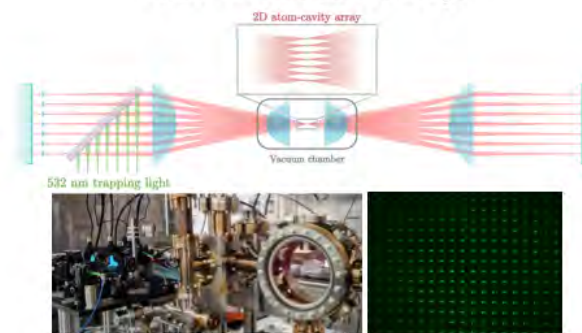
Metcalf group: **Optical forces and laser cooling**



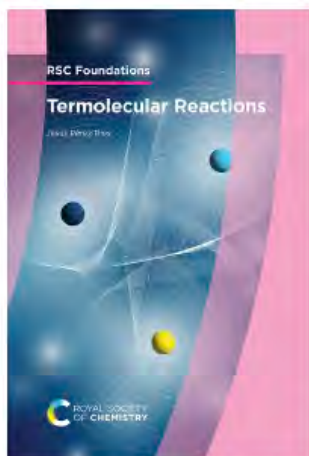
Schneble group: **Ultracold atoms and quantum gases**



Kumar group: **Cavity QED with atom arrays**



AMO Physics Group: Research Highlights



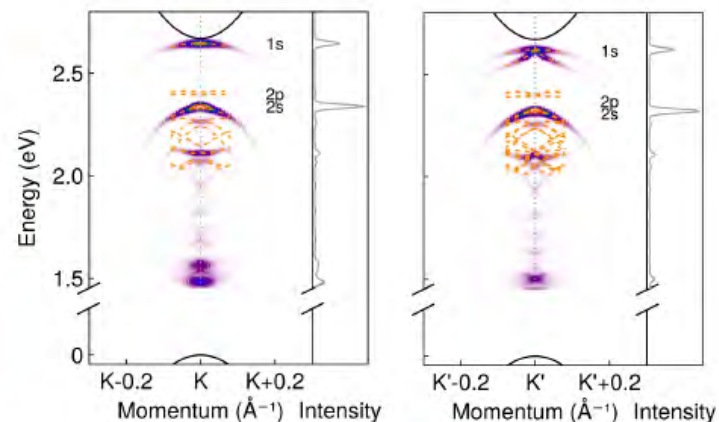
New book: *Termolecular Reactions*
(RSC, 2026), Pérez-Ríos



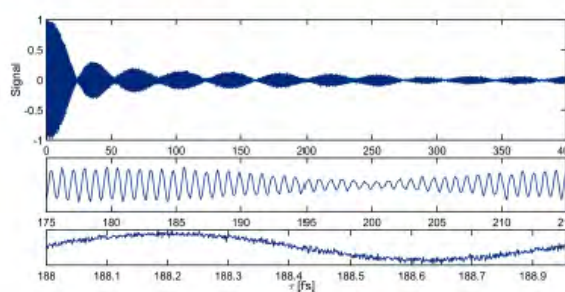
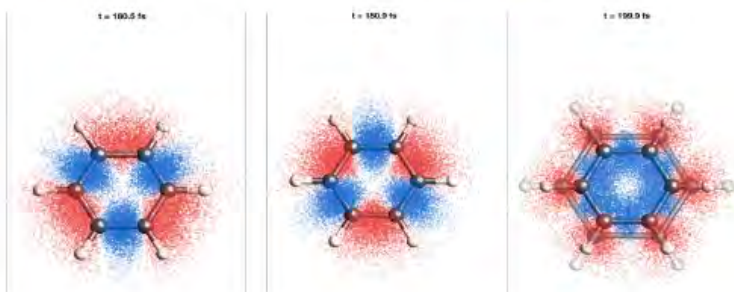
PCCP inside front cover: three-body recombination, Koots & Pérez-Ríos



PCCP front cover: molecular dications, Bodek, Moğol, ..., Weinacht



Signature of a trion in photoemission, *Phys. Rev. Lett.* (2026, upcoming, editors suggestion), Wu, Withers, Allison, Qiu



Molecular attoscope: electron motion in benzene tracked with 6 attosecond precision, Ngo, Codere, Ohara, ..., Weinacht, arXiv (2026)

AMO Physics Group: Publications

19 publications including 1 in Nature, 1 in Nature Communications, 1 in Phys. Rev. Lett., several in Phys. Rev. A, Phys. Rev. Research and PCCP, plus ~10 preprints

- **Molecular attoscope: pulse shape spectroscopy of electronic coherence**, Loc Ngo, Julia Codere, Javin Ohara, B. Kaufman, M. G. Cohen, T. Rozgonyi, P. Marquetand, M. Bain, B. J. Pearson, R. Forbes, T. Weinacht, *arXiv:2605.03298* (2026)
- **Signature of a trion in photoemission**, J. Wu, Zachary Withers, T. K. Allison, D. Y. Qiu, *Phys. Rev. Lett.* (2026)
- **Moiré-controllable exciton localization and dynamics in a MoSe₂/WS₂ heterobilayer**, J. Guo, Zachary Withers, Z. Li, B. Hou, Alexander Adler, J. Ding, V. C. Lee, R. K. Kawakami, G. Schönhense, A. Kunin, T. K. Allison, D. Y. Qiu, *Nat. Commun.* 16, 11257 (2025)
- **Machine learning prediction of a chemical reaction over 8 decades of energy**, Daniel Julian, J. Pérez-Ríos, *Phys. Rev. Research* 7, L042034 (2025)
- **Effects of the delocalized charge distribution in trapped ion-atom collisions**, Ruiren Shi, M. Drewsen, J. Pérez-Ríos, *Commun. Phys.* 8, 479 (2025)
- **Telecom-compatible cross-band quantum memory via dual photon modes dark-state polaritons**, Dounan Du, E. Figueroa, *arXiv:2510.11585* (2025)



Center for Distributed Quantum Processing (CDQP) and Stony Brook Quantum Institute

CDQP Graduate Fellows (Fall 2023)

Edoardo Buonocore	Anh Nghiem
Dounan Du	Zhixiang Hu
Chase Wallace	
David Frenklakh	Youngshin Kim

CDQP Graduate Fellows (Fall 2025)

Shuyu Zhang	Mahmoud Ibrahim
Gloria Tedor Garcia	Abhishek Cherath
Eliana Marroquin	Ji Hoon Park

CDQP Graduate Fellows (Fall 2024)

Hongyi Huang	Leonardo Castillo
Luke Dyer (MA QIST student)	Jacky Chen
Ivy Huang	

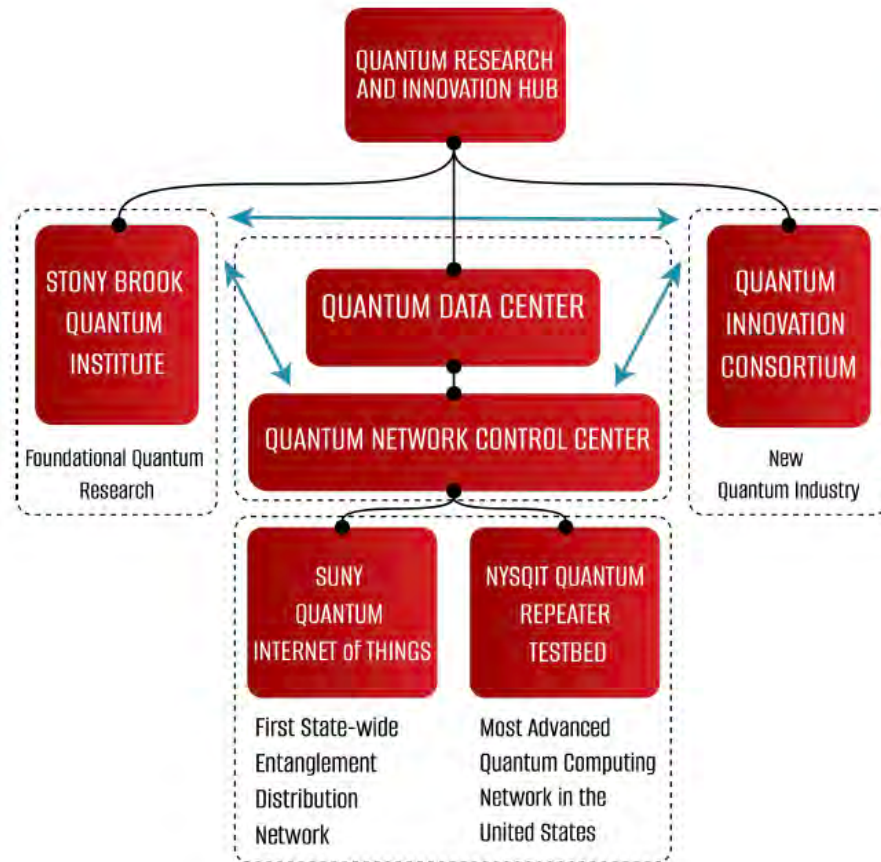


**Center for Distributed
Quantum Processing**

- From 2023-2026, CDQP supported 8 faculty members and more than 20 graduate students. In 2026, CDQP is becoming the **core** of the new campus-wide **Stony Brook Quantum Institute**.



Stony Brook Quantum Institute



Stony Brook Quantum Institute

- Interdisciplinary Quantum Research.
- Quantum Fellowships for Postdocs and Graduate students.
- Quantum Education Center.
- New Faculty Hires.
- Quantum Workforce Programs.

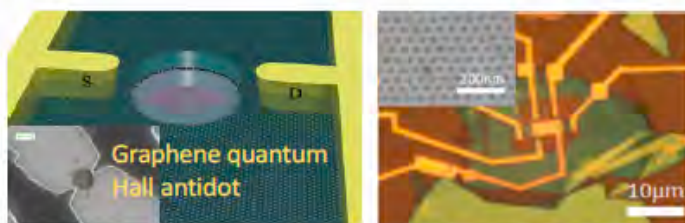
Quantum Innovation Consortium

- Partnerships with Quantum Industry
- Private/public partnerships to develop quantum technology.
- New Quantum Startups.
- Quantum Innovation Network across NYS.



Experimental Condensed Matter Group

Quantum Transport in Low Dimensional Materials (Du)



Quantum devices

Quantum metamaterials

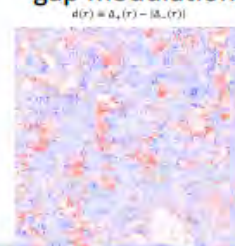
Spectroscopic Characterization of Correlated Phenomena in Quantum Materials (Blackwell)



Scanning Tunneling Microscope



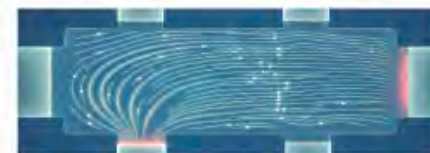
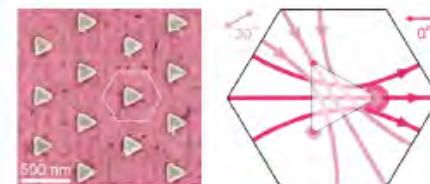
Visualizing superconducting gap modulations



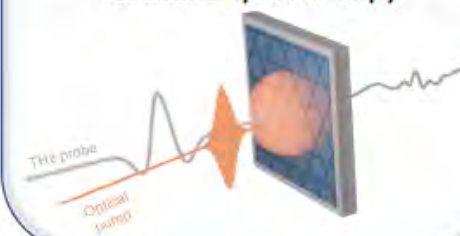
Ultrafast Spectroscopy of Quantum Meta-Matter (Pettine)



Symmetry-engineered nanocurrent probes



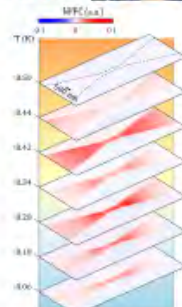
Terahertz spectroscopy



Nano-scale Optical Spectroscopy of Quantum materials (Liu)



Optical/infrared nanoimaging in high magnetic field



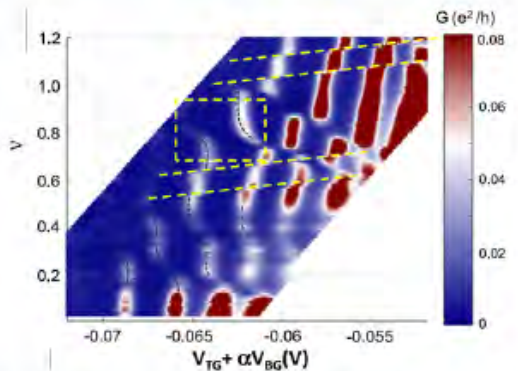
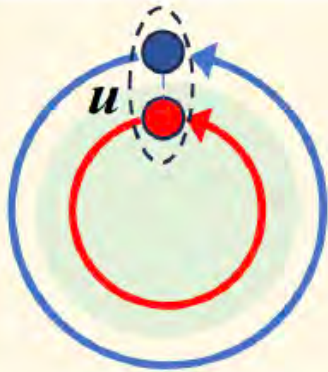
Electronic Materials (Li)



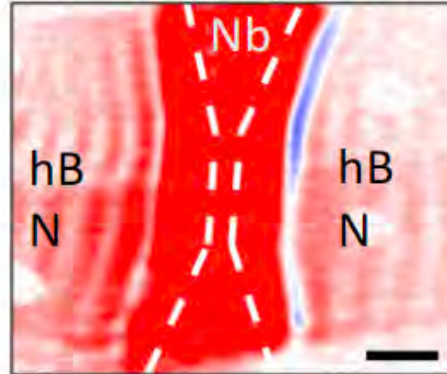
Integrated electronic materials synthesis and characterization with theoretical modeling using effective Hamiltonian and first-principles calculations

Experimental Condensed Matter Group - Research Highlights

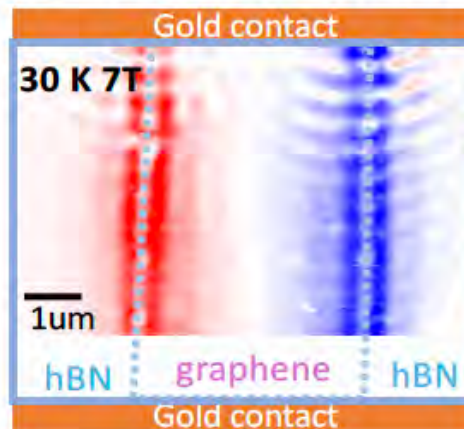
Create/manipulate novel quantum states: vacuum fluctuations realized with single localized quantum Hall quasiparticles (Du)



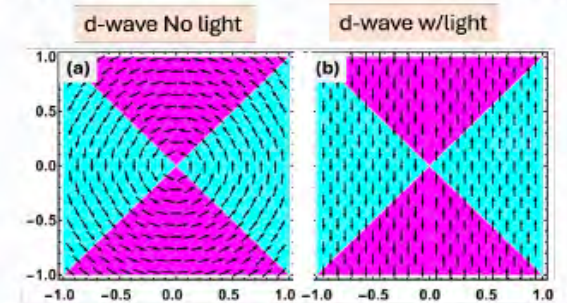
A New Way of Detecting Superconductor-2D devices (Liu)



A New Way of Probing Quasiparticles at Nanoscale (Liu)

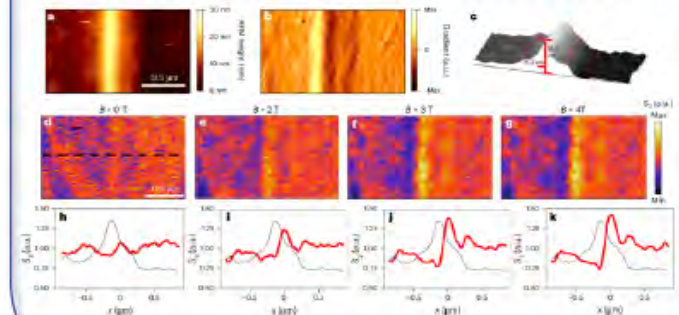


Dynamical generation of SOC, topology and spin texture in light-irradiated altermagnets (Li)



Phys. Rev. Lett. (Editors' suggestion, 2025)

Imaging spin polarized chiral edge modes in Dirac semimetal ZrTe₅ (Li)



Nature Nanotechnology (July 2026)

Experimental Condensed Matter Group – Selected Publications

(Blue: SBU students, Green: postdocs, Red: CMP-exp faculties)

“Localizing Individual Exciton on a Quantum Hall Antidot”, Rui Pu, Naomi Mizuno, Fernando Camino, Runchen Li, Kenji Watanabe, Takashi Taniguchi, Dmitri Averin, Xu Du, *Nature Communications* 16, Article number: 10375 (2025)

“Magnetically tunable quantum Hall triple-antidot molecules realized in suspended graphene”, N. Mizuno, D.V. Averin, X. Du, *Physical Review B* 113 (20), 205128 (2026)

“Light people: Professor Mengkun Liu”, *Light: Science & Applications*, 15, 172 (2026).

“Magnetic-field-tunable cyclotron hyperbolic polaritons”, Zijian Zhou, Ran Jing, Heng Wang, Lukas Wehmeier, M.K.Liu, and Bing Cheng *PNAS*, accepted (2026)

“Reconfigurable Internal Quantum Hall Boundaries in Graphene Visualized by Multimodal Nanoimaging”, Zhenbing Dai+, Wenjun Zheng+, Ran Jing+, Boyi Zhou, Ji-Hoon Park, Shoujing Chen, Zijian Zhou, Heng Wang, Xinzhong Chen, Suheng Xu, Jiacheng Sun, Bing Cheng, ..., Xu Du, ..., M.K.Liu*, and Lukas Wehmeier*, *Light: Science & Applications* (2026).

“Visible-to-THz near-field nanoscopy”, R. Hillenbrand*, ...M.K. Liu*, X. Chen, D.N. Basov, *Nature Review Materials*, 10, 285 (2025).

“Imaging van Hove Singularity Inhomogeneity in Overdoped Graphene” R. Blackwell, Z. Du., et. al, *Phys. Rev. B*. (accepted)

“Dynamical Generation of Higher-order Spin-Orbit Couplings, Topology and Persistent Spin Texture in Light-Irradiated Altermagnets” G. Ghorashi & Q. Li, *Phys. Rev. Lett.* 135, 236702, (Editors' suggestion, 2025)

“Cavity-Altered Superconductivity” I. Keren, T. A. Webb, ..., Q. Li, .. D. N. Basov, *Nature* 650, 864 (2026)

“Magnetic Brightening and Nanoscale Imaging of Spin-Polarized Helical Edge Modes in ZrTe₅” S. Haeuser, ..., P. M. Lozano, ..., Q. Li, J. Wang, *Nature Nanotechnology* 21, 1090 (2026)

Experimental Condensed Matter Group – Student Research Opportunities

Du –Quantum Transport:	2027 fall: PhD students (1), master students (1) undergraduate students (1)
Liu – Optical Quantum Materials:	2026 fall: PhD students (2), master students (1) undergraduate students (1) 2027 fall: PHD students (2), master students (1) undergraduate students (1)
Blackwell – Scanned Probe	2026 fall: PhD students (1), master students (1) undergraduate students (0) 2027 fall: PHD students (1), master students (0) undergraduate students (0)
Pettine – Quantum Meta-Matter:	2026 fall: PhD students (1), master students (1), undergraduate students (1) 2027 fall: PHD students (1), master students (1), undergraduate students (1)
Li – Electronic Materials	2026 fall: PhD students (2), master students (0) undergraduate students (1) 2027 fall: PHD students (2), master students (0) undergraduate students (1)

Condensed Matter Theory Group

(openings for grad students: ~ 3 students)



Sasha Abanov



Dmitri Averin



Jennifer Cano



Cyrus Dreyer



Marivi Fernandez-Serra



Paul Goldbart



Condensed matter theory group

Goal: To understand and predict material properties for discovery and applications

New platforms and novel phenomena:

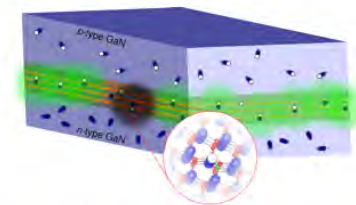
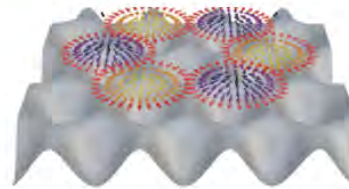
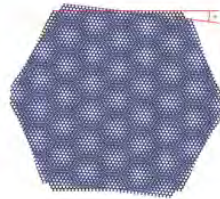
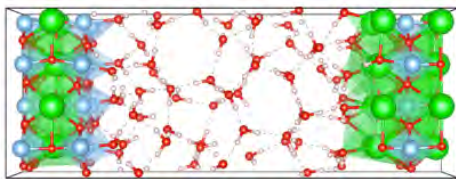
2D and topological materials
Superconductors
Liquid/solid interfaces
Soft random solids

State-of-the-art computational and analytical methods:

Electronic structure
Machine learning
Molecular dynamics
Many body methods
Statistical field theory

Real-world applications:

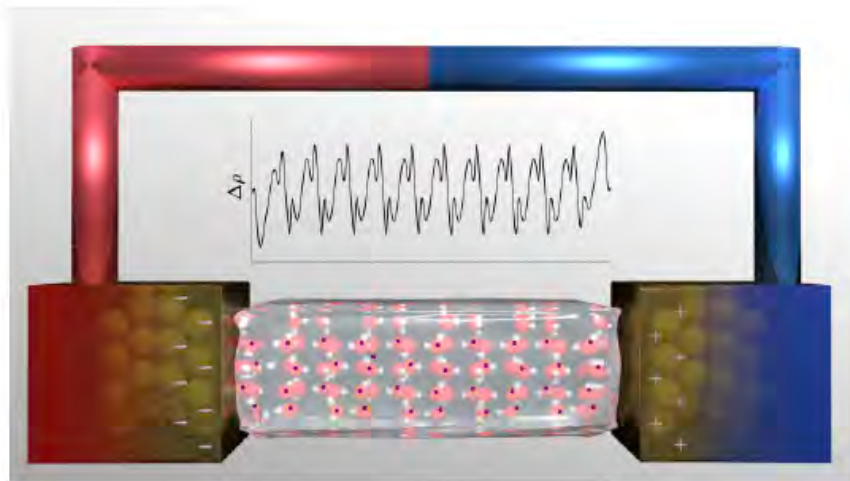
Electronic and optoelectronic devices
Dark matter detection
Quantum computing and control



Condensed Matter Theory – Highlights

In the news:

- Paul Goldbart elected to 5-year term as an Honorary Member of the Aspen Center for Physics



Redefining Capacitance at the nanoscale

First-Principles Nanocapacitor Simulations of the Optical Dielectric Constant in Water Ice, Anthony Mannino, Graciele M. Arvelos, Kedarsh Kaushik, Emilio Artacho, Pablo Ordejon, Alexandre R. Rocha, Luana S. Pedroza, Marivi Fernández-Serra.

PRL 2026

[PRL Editor's Choice]

Selected Papers

Abanov

- The density profile of a Coulomb plasma on a cylinder: boundary oscillations, J. Phys. A: Math. and Theor., 2025; **G. Cardoso**, J-M Stéphan, and A. G. Abanov.
- Emptiness Instanton in Quantum Polytypic Gas, SciPost Phys. 2025; A. G. Abanov and D. M. Gangardt.
- Infinite-Dimensional Nonholonomic and Vakonomic Systems, Journal of Nonlinear Science, 36, 67 (2026), Abanov and Khesin

Cano

- Optimizing superlattice bilayer graphene for a fractional Chern insulator, PRB 113, 075140 (2026); **D. Ault-McCoy**, **N. Lhachemi**, **A. Dunbrack**, **S.A.A. Ghorashi**, J. Cano
- Quantum-geometric dipole: a topological boost to flavor ferromagnetism in flat bands, PRL 136, 186602 (2026); **L. Chen**, **S.A.A. Ghorashi**, J. Cano, V. Crépel
- Majoranas with a twist: Tunable Majorana zero modes in altermagnetic heterostructures, PRB 112, 214430 (2025) **A. Hadjipaschalis**, **S. Ghorashi**, J. Cano
- Efficient prediction of topological superlattice bands with spin-orbit coupling, **N. Lhachemi**, V. Crépel, J. Cano PRB 113, 165109 (2026)

Dreyer/Fernandez-Serra

- All-electron dark matter-electron scattering with random-phase approximation dielectric screening and local field effects, Cyrus Dreyer, Rouven Essig, Marivi Fernandez-Serra, **Megan Hott**, **Aman Singal** PRD, 2026
- First-Principles Nanocapacitor Simulations of the Optical Dielectric Constant in Water Ice, **Anthony Mannino**, **Graciele M. Arvelos**, **Kedarsh Kaushik**, Emilio Artacho, Pablo Ordejon, Alexandre R. Rocha, Luana S. Pedroza, Marivi Fernández-Serra. PRL. 136, 026202 (2026)
- Constraint-aware functional cloning for stable and transferable machine-learned density functional theory, **Sara Navarro-Rodríguez**, **Alec Wills**, **Kimberly J. Daas**, María Camarasa-Gómez, Marivi Fernández-Serra. Phys. Rev. X Intelligence (2026).

Goldbart

- Proximity-measurement induced random localization in quantum fluids; **P. Mohile**, P. M. Goldbart, ArXiv: 2507.23085
- Statistical field theory of equilibrium amorphous solids and the intrinsic heterogeneity distributions that characterize them, Annu. Rev. of Cond. Mat. Phys. 17, 161 (2026); P. M. Goldbart
- Universal mesoscale heterogeneity and its spatial correlation in equilibrium amorphous solids; **B. Zhou**, **Z. Zhou**, P. M. Goldbart, J. of Phys. A: Math. and Theor. 58, 215002 (2025)

Experimental Nuclear Physics

Faculty:

Nuclear Physics ranks #3 in US



Jan Bernauer



Abhay Deshpande



Axel Drees



Yeonju Go



Tom Hemmick

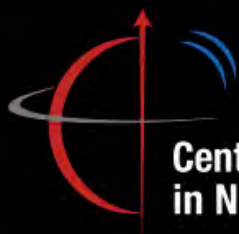


Joanna Kiryluk



Research Faculty:

Ross Corliss,
Jaydeep Datta,
Gabor David,
Roli Esha



Center for Frontiers
in Nuclear Science

Experimental Nuclear Physics

Quark Gluon Plasma Spin Structure of Nucleon

Nucleon & Nuclear collisions with
sPHENIX at RHIC and ATLAS at CERN



sPHENIX Experiment
2026-2-1, Run 82420
Collisions: O+O @ $\sqrt{s_{NN}} = 200$ GeV



Bernauer, Corliss, David, Deshpande, Drees, Esha, Go, Hemmick



Precision electron scattering searching for Physics Beyond the Standard Model Studies & nucleon spin structure

at 12 GeV e beam at
Jefferson Lab with Moller
and Solid

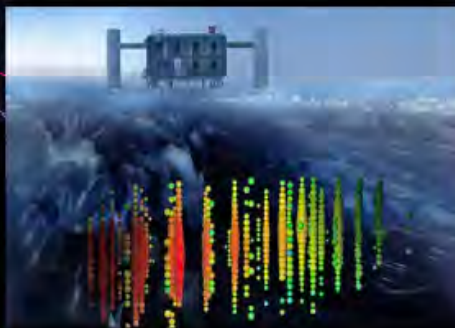


Moller experiment

Jefferson Lab

Deshpande, Datta

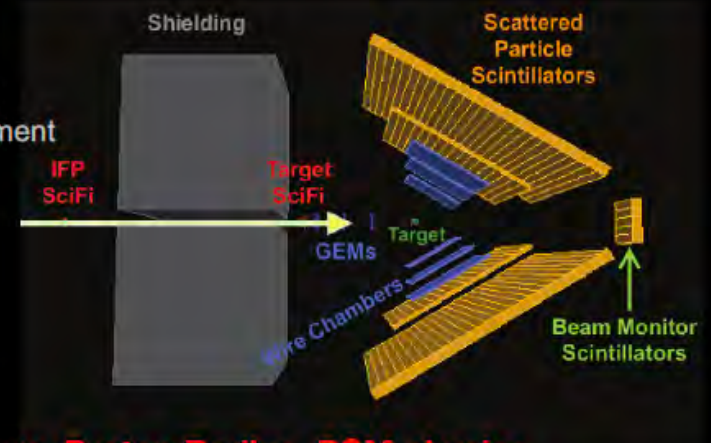
Astrophysical PeV neutrinos IceCube Experiment at Antarctica



Kiryluk

Bernauer, Corliss

The MUon proton Scattering Experiment



Nucleon Structure, Proton Radius, BSM physics
Lepton Scattering with MUSE at PSI and DarkLight at TRIUMF

Electron Ion Collider & ePIC Detector

Imaging quarks and gluons in protons and nuclei

Electron Ion Collider (EIC) at Brookhaven

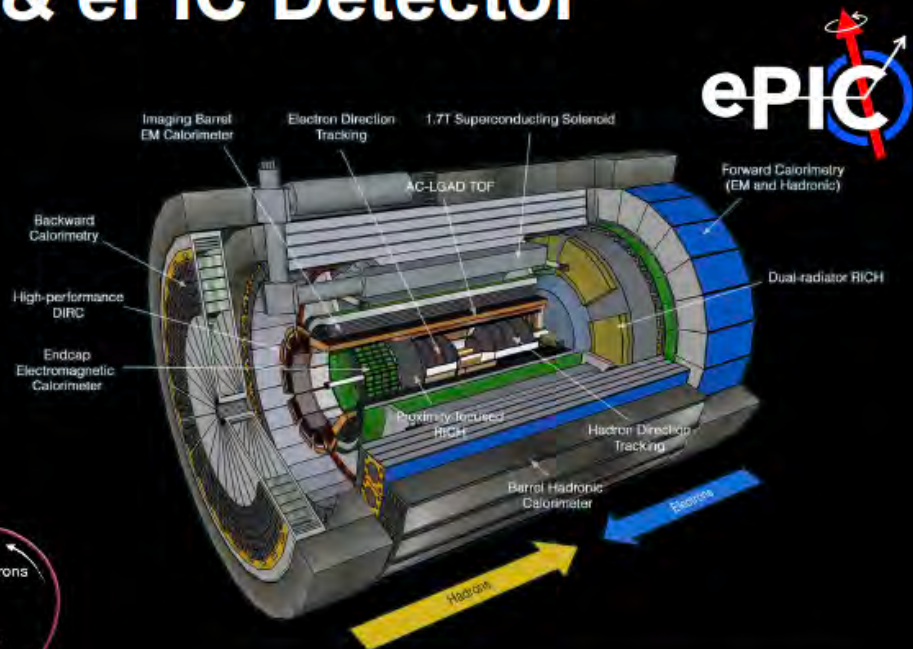
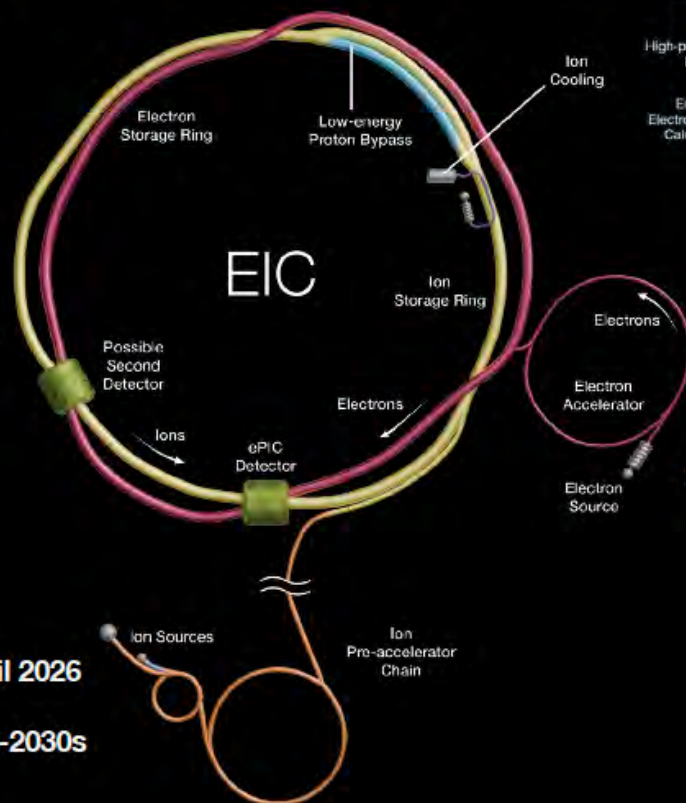
Quark gluon confinement



The mystery of proton spin



RHIC-to-EIC transformation
underway since April 2026
Completion and operations
targeted for the mid-2030s



Stony Brook Group is a major contributor to ePIC

Particle identification: pRICH and barrel DIRC
Detector R&D and precision timing
Simulations, software, and physics studies

Deshpande serves as Associate Lab Director
for Nuclear & Particle Physics
and EIC Science Director at BNL

Events, News, and Research Opportunities

Vassu Doomra PhD 2025 (Drees, Deshpande)
receives **2026 BNL thesis award**

**Foundation Models for Transferable Particle
Tracking in Nuclear Physics**

Jan C. Bernauer
Associate Professor, Department of Physics and
Astronomy, Stony Brook University



 **Genesis Mission**

with coPIs Drees and Go



2026 RHIC/AGS ANNUAL USERS'S MEETING
AND RHIC SCIENCE SYMPOSIUM

Thesis Award Flash Talk

e^+e^- Pairs as a QCD Probe

Vassu Doomra
CFNS & UC Berkeley



PHENIX



**The Apex of
RHIC Physics**
Resolving the
Strong Force
May 11-15, 2026



Dário Gil, the DOE's under secretary for science (*right*)
and BNL director **John Hill** (*left*) end the operational
era of the Relativistic Heavy Ion Collider



February 26, 2026

RHIC the last great U.S. particle collider is no more.
EIC comes next and could be even better!

**Plenty of research projects available
for PhD – masters – UG students**

Come talk to one of the nuclear physics faculty

The Nuclear Theory Group at Stony Brook



F. Ringer



E. Shuryak



S. Syritsin



D. Teaney



J. Verbaarchot



I. Zahed



Y. Mehtar-Tani

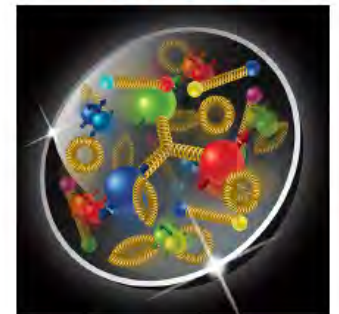
BNL

R. Amoroso, J. Bhambure, W.Y. Liu, J. Leehman, N. Miesch, E. Marroquin, G. Tejedor García, T. Mangan, J. Montgomery, P. Shome, M. Larose, S. Liu, H. Zhang

The things we study:

Finite temperature QCD and Heavy-Ions
Proton Structure; Lattice QCD; Electron Ion Collider (EIC)
Quantum Computing and AI for Nuclear Phys.
Interdisciplinary Connections

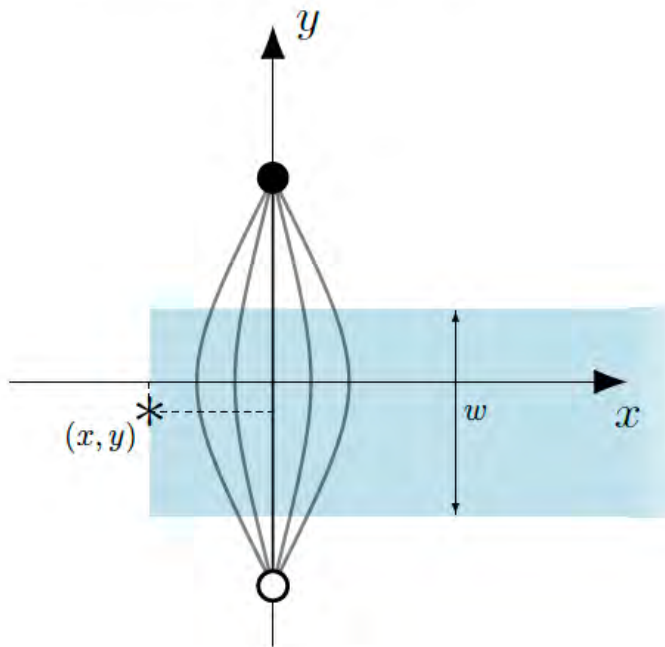
AI Proton



Nuclear Theory Research Highlights

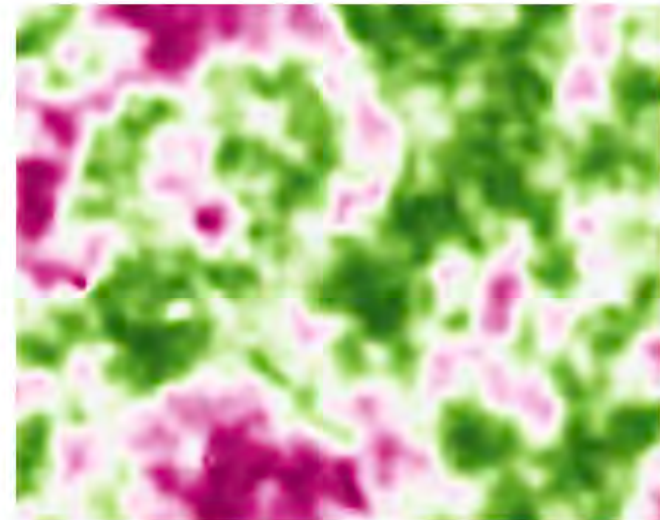
Lattice QCD and Entanglement

Rocco Amoroso, Syritsyn and Venugopalan,
*Entanglement entropy of a color flux tube in
(1+1)D Yang-Mills*,
Phys. Lett. B868 (2025)



Finite Temperature QCD & Heavy-Ions

Florio, Grossi, Mazeliauskas,
Soloviev and Teaney,
*Supercooled Goldstone Bosons at the QCD Chiral
Phase Transition*, Phys. Rev. Lett. **135** (2025).

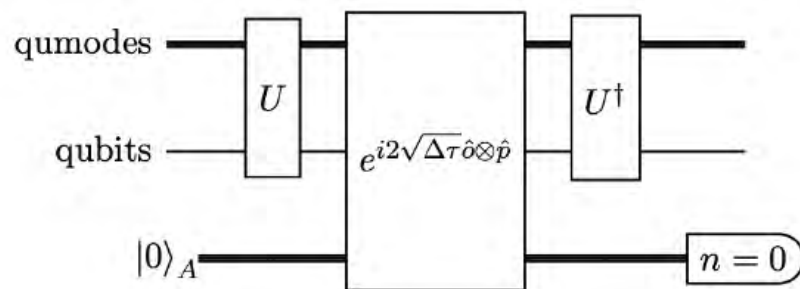


Nuclear Theory Research Highlights

Quantum Computing

Ale, Rainaldi, Rico, Ringer, Siopsis,
*Simulating quantum electrodynamics in 2+1
dimensions with qubits and qumodes*,
JHEP **04** (2026).

Related work: **Jake Montgomery, Gloria
Tejedor-García**



Hadron Structure & EIC

Zahed and **Haocheng Zhang**,
Faddeev description of baryons in 2d QCD;
arXiv:2607.23435.

Quantum Chaos and More:

Lindblad many-body scars, Verbaarschot
Quant Chaos at all time-scales, Verbaarschot
Quant Chaos on edge, Verbaarschot

$\vdots$ $\vdots$ $\vdots$

High Energy Physics (HEP) Group

Hadron Collider Group – ATLAS at LHC



Hannah Arnold



Valerio Dao



John Hobbs



Giacinto Piacquadio



Dmitri Tsybychev

Neutrino and Nucleon decay Group – T2K, DUNE

LIGO/Independent



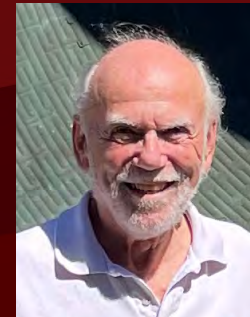
Chang Kee Jung



Clark McGrew



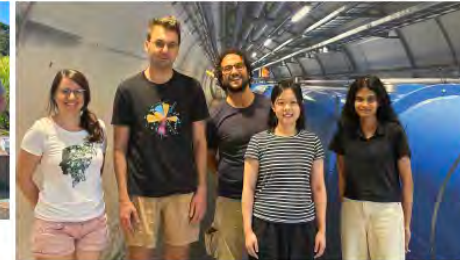
Ciro Riccio



Barry Barish



High Energy Experiment: Collider group



@CERN

@SBU

Faculty: H. Arnold, V. Dao, J. Hobbs, G. Piacquadio, D. Tsybychev

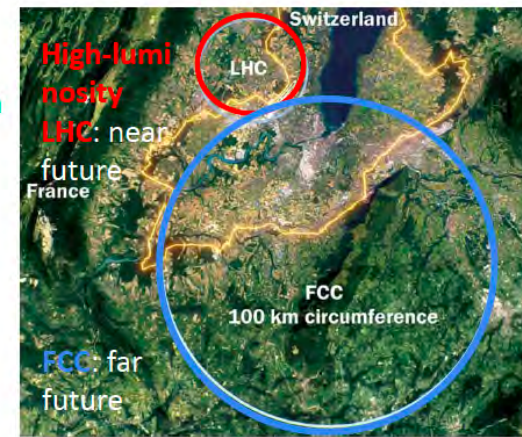
Research/Adjunct Faculty: P. Grannis, C. Bee, D. Schamberger, C. Da Via, H. Chen, D. Denisov

Post docs: Egor Antipov, Minori Fujimoto, Yesenia Jimenez, Martino Tanasini, Fang-Ying Tsai, Yuhao Wang

Ph.D.: Neil Anderson, Keyi Chen, Storm Lin, Mars Lyukova, Chamathka Wijewardhana, Shangke Zhou, Nirvesh Joshi, Wenhao Ya (1st year)

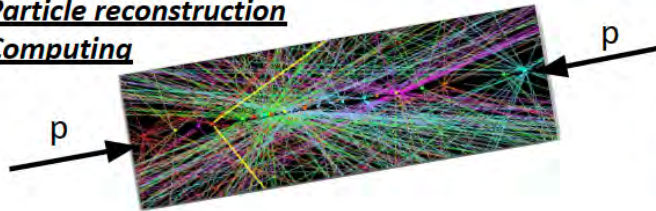
Masters: Zahin Shahrior

Undergrad: Jayson Gutierrez, Chiwendu Matthew, Pat Wrenn, Wilson Zou, Ke Sun (EE Majors: Sergey Khlebutin, Rayan Rezaei)



High Energy Experiment: Collider group

Particle reconstruction Computing



ATLAS @ (high-luminosity) LHC & Future colliders

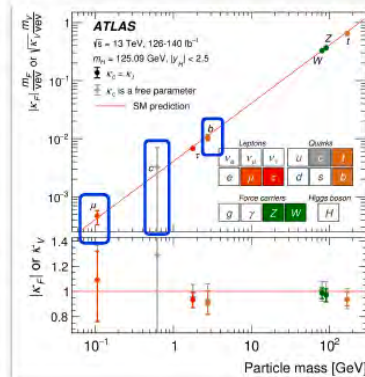
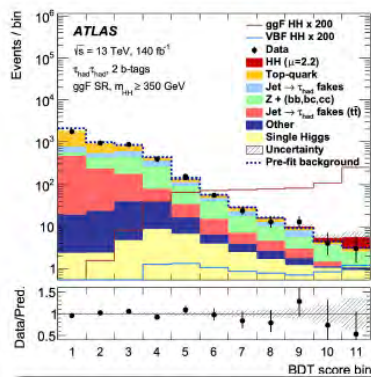
Detector operation, construction and commissioning (Calorimeter/Silicon Tracker)



Physics (data) Analysis

- How does the Higgs boson give mass to fermions? $H \rightarrow bb$, $H \rightarrow cc$, $H \rightarrow \mu\mu$ [first evidence in ATLAS in 2012]
- Does the Higgs boson couple to itself? Higgs-boson pair production: $HH \rightarrow \text{leptons}$, $HH \rightarrow b\bar{b}t\bar{t}$ ★
- Is the Higgs sector exactly as predicted by the SM? Higgs combinations & interpretations, searches for non-SM decays ($H \rightarrow a\bar{a} \rightarrow b\bar{b}\mu\mu$) ★

Breakthrough prize 2025



HIGP-2025-16

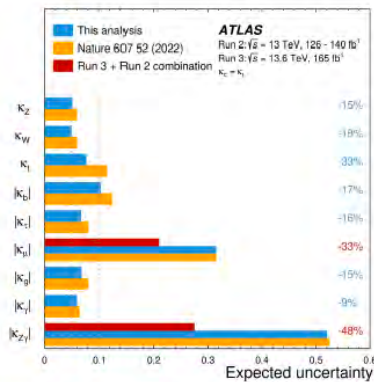
- Does the Higgs boson play its predicted role in electroweak symmetry breaking? Does the Higgs boson unitarize electroweak scattering? Vector boson scattering measurements
- How well do we understand heavy-flavor production? $t\bar{t}$ + b/c measurements • key backgrounds to $t\bar{t}H$ searches

Recent Physics Highlights of the ATLAS Stony Brook group (2026)

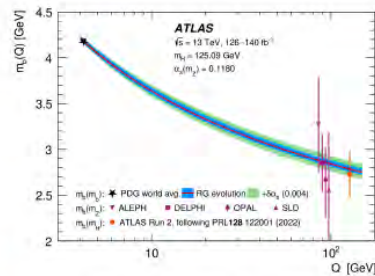
(*) ATLAS coordination roles
Students

Combined Measurements of Higgs boson Production and Decay and their Interpretations

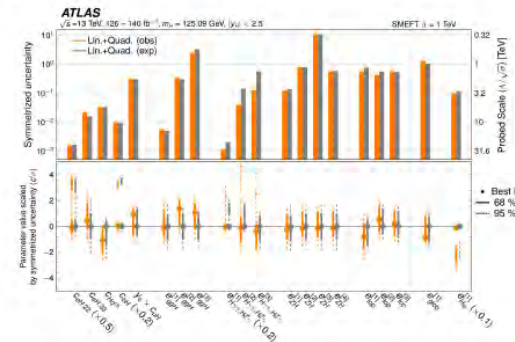
HIGP-2025-16 [Paper submitted to Rep. Prog. Phys.]



Most stringent constraints on Higgs interactions



Running of quark masses

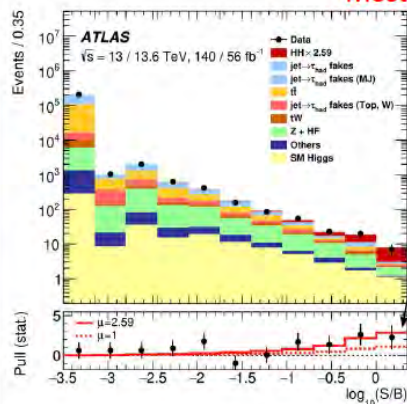


Constraints on new physics effects $\Rightarrow$
excluded up to an energy scale of 30 TeV

Y. Wang (*), V. Dao (*), Z. Liu, H. Arnold

Improved analysis of $HH \rightarrow b\bar{b}\tau\tau$ [arXiv:2607.26879]

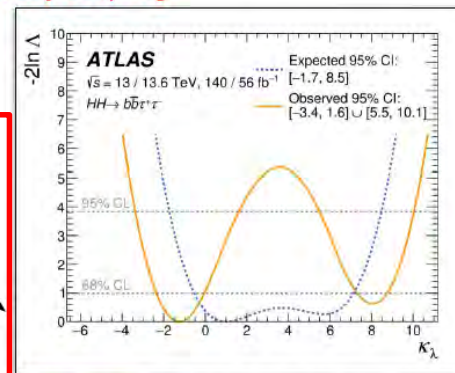
Most precise single-channel analysis of Higgs boson self-coupling



First ever $\sim 2\sigma$ hint of HH production!

World-leading constraint on Higgs boson self-coupling!

$$k_\lambda = \frac{\lambda}{\lambda_{\text{SM}}}$$



C. Nirmani, S. Lin, M. Fujimoto (*), M. Tanasini (*), N. Joshi, V. Dao (*), G. Piacquadio

Physics Highlights of the ATLAS Stony Brook group

(*) ATLAS coordination roles

[Submitted on 7 Aug 2026]

Combination of Higgs boson measurements at $\sqrt{s} = 13$ TeV and their interpretations by the ATLAS experiment

ATLAS Collaboration

Yuhao Wang^(*), V. Dao^(*),
H. Arnold, Zhanyu Liu

[Submitted on 29 Jul 2026]

Improved analysis of non-resonant Higgs boson pair production in the $b\bar{b}\tau^+\tau^-$ final state with 196 fb⁻¹ of data collected at $\sqrt{s} = 13$ TeV and 13.6 TeV with the ATLAS detector

ATLAS Collaboration

C. Nandan^(*), S. Lin, M. Fujimoto^(*), M. Tanasini^(*), N. Joshi, V. Dao^(*), G.
Piacquadio

Measurements of WH and ZH production with Higgs boson decays into bottom quarks and direct constraints on the charm Yukawa coupling in 13 TeV pp collisions with the ATLAS detector

Yan Ke, Martino Tanasini, Yuhao Wang, H. Arnold^(*), G. Piacquadio, V. Dao

ATL-PHYS-PUB-2025-018

Highlights of the HL-LHC physics projections by ATLAS and CMS

The ATLAS¹ and CMS² Collaborations

Yesenia Jimenez, Yuhao Wang, V. Dao, H. Arnold

Evidence for the Dimuon Decay of the Higgs Boson in pp Collisions with the ATLAS Detector

G. Aad¹⁶⁴, E. Aakvaag¹⁷, B. Abbott¹²³, S. Abdelhameed^{119a}, K. Abeling⁵⁵, N. J. Abicht⁴⁹, S. H. Abidi³⁰, M. Aboelela⁴⁵, A. Aboulhorma^{36e} et al. (ATLAS Collaboration)

Phys. Rev. Lett. 135, 231802 – Published 3 December, 2025

D. Tsybychev, E. Antipov, ShanJia Liu

Search for CP violation in WH production in 13 TeV pp collisions with the ATLAS detector

The ATLAS Collaboration

V. Dao

ECFA Higgs, electroweak, and top factory study

V. Dao

<https://arxiv.org/pdf/2506.15390>

[Submitted on 25 Apr 2025]

Future Circular Collider Feasibility Study Report: Volume 1, Physics, Experiments, Detectors

<https://arxiv.org/abs/2505.00272>

H. Arnold, J. Hobbs, V. Dao, G. Piacquadio

Stony Brook Neutrino and Nucleon decay (NN) Group

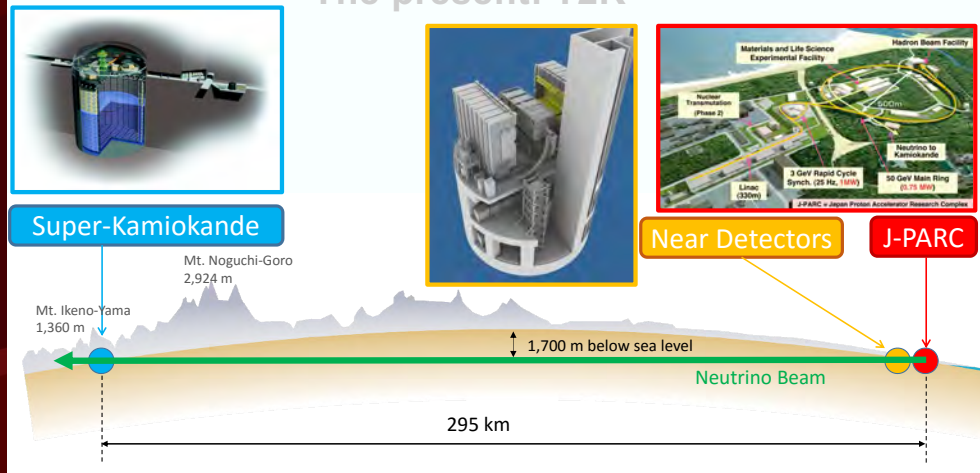


- Faculty: C.K. Jung, C. McGrew, C. Riccio
- Research Faculty: C. Yanagisawa
- Distinguished Endowed Chair in Physics Professor: B. Barish
- Adjunct Faculty: X. Qian (BNL), E. Worcester (BNL), M. Wilking (UM)
- Postdocs: U. Yevarouskaya, S. Joshi
- Graduate Students: A. Teklu, H. Zheng, K. Mahtani, R. Fanantenana Razakamiandra, A. Heindel, J. Smith
- Masters and Undergrads: Y. Guo, S. Chou, X. Tao, Y. Sun



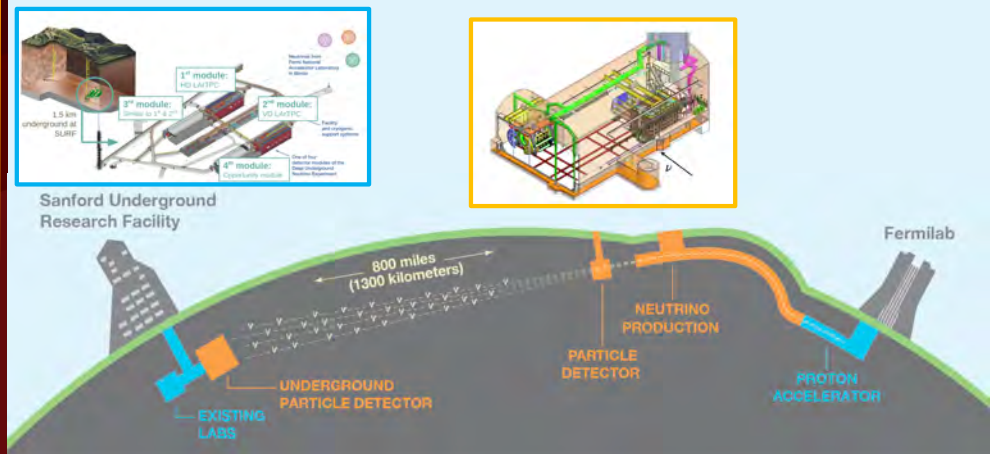
NN Group Research Overview

The present: T2K



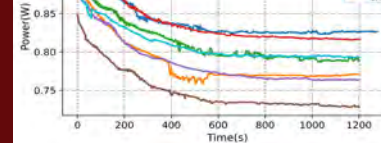
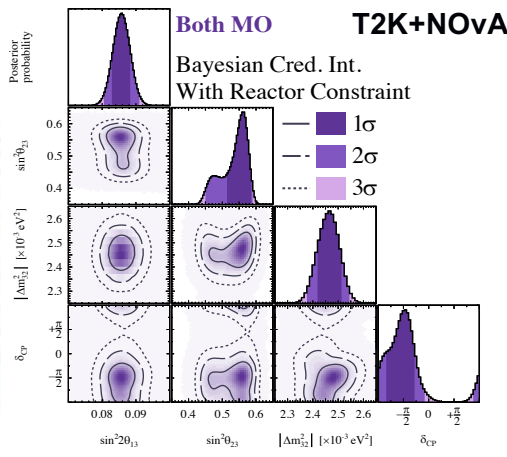
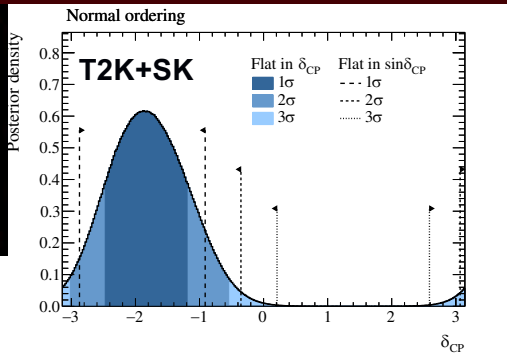
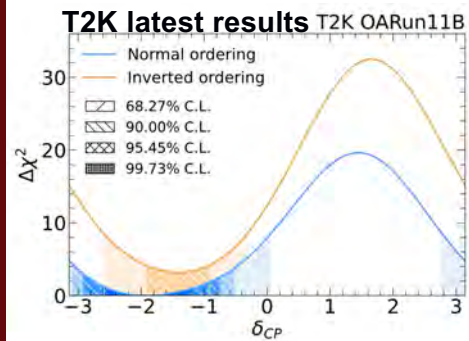
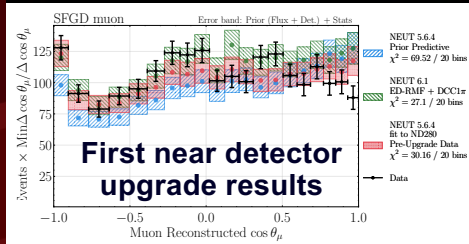
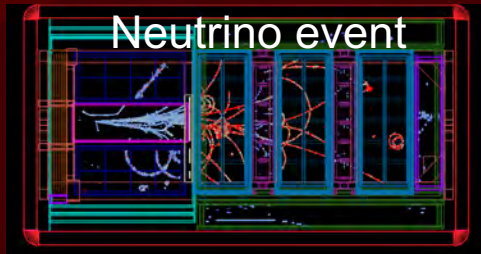
- Current generation: T2K experiment in Japan
 - Group heavily involved in any aspect of the experiment
 - ND280 upgrade first physics data now being analyzed
 - T2K-only and joint SK+T2K and T2K+NOvA oscillation analyses

The near future: DUNE

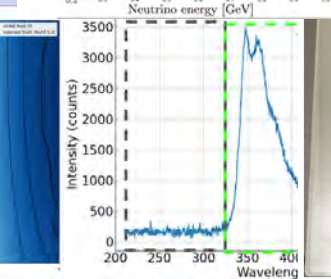
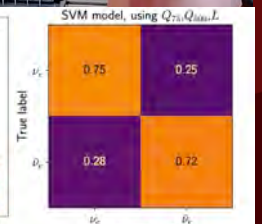
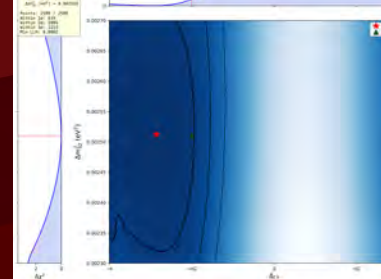


- Next generation: DUNE experiment in US
 - Photon detection system for second far detector module
 - Warm and Cold Electronics
 - New tool (GUNDAM) being used in Oscillation Analysis
 - Detector R&D for Phase II third FD module

NN Group Research Highlights



GUNDAM Atm. Neutrinos



R&D DUNE Phase-II

NN Group recent publications and positions open

- S. Chou (Undergrad), S. Jain (Undergrad), W. Shi, C. Riccio, “Enhanced Reconstruction of Sub-GeV Neutrinos Charged Current Interactions in LArTPC”, arXiv:2604.20957 [hep-ex].
- S. Abe et al. (Grad student contributing: A. Teklu, J. Ji, H. Zheng, K. Mahtani). “The super fine-grained detector for the T2K neutrino oscillation experiment,” Nucl. Instrum. Meth. A 1092 (2026), 171882.
- A. Paudel, et al. (Grad student contributing: A. Heindel), “Modeling light signals using data from the first pulsed neutron source program at the DUNE vertical drift ColdBox test facility at the CERN Neutrino Platform,” JINST 21 (2026) no.04.
- S. Abe *et al.* (Grad student contributing: H. Zheng) “Introducing a Markov Chain-Based Time Calibration Procedure for Multi-Channel Particle Detectors: Application to the SuperFGD and ToF Detectors of the T2K Experiment”, JINST 20 (2025) no.10, P10030.
- T2K and Super-Kamiokande Collaboration (Grad student contributing: J. Jiang, M. Jia), “First joint oscillation analysis of Super-Kamiokande atmospheric and T2K accelerator neutrino data”, Phys. Rev. Lett. 134 (2025) 011801

Positions open: 2 grad students, 1 master and 1 undergrad

Opportunities to gain hands-on experience in quality control and quality assurance of key components of the DUNE experiment. The positions are also compensated. Contact Prof. Riccio for details.



C.N. Yang Institute for Theoretical Physics [YITP] (I)

Broad Coverage of Theoretical Physics

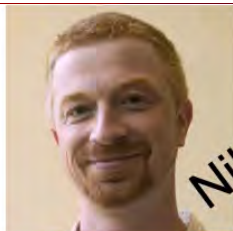
Quantum information, statistical mechanics
Particle and collider physics, dark matter, cosmology
Field & string theory, mathematical physics

20+ students working in a variety of areas. Study is arranged as with other DPA faculty and research groups.
SCGP Physics Permanent Members are YITP Faculty

-- Collaborating with the Department & maintaining strong ties to Brookhaven theory groups, including opportunities for student research.

The full faculty . . .

Y



Nikita I



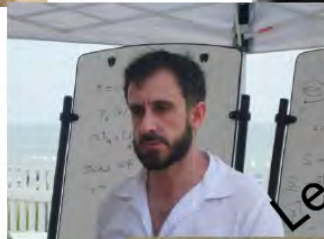
T
Concha



P
Luis



George



Leonardo



Zohar

Rouven



Peter

Martin



Vladimir



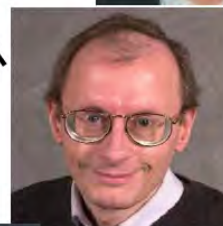
Nat



Yinchen



Tzu-chieh



Robert
Patrick



Vivian



Alexander
(Sasha)



JoAnne
(BNL)



YITP (III)

Examples of recent publications, many with students.

High Energy Physics, Astrophysics & Cosmology, . . .

Universal standard model effective field theory as a tool for discovery

Jay Desai, Maria C. Gonzalez-Garcia, et al

Pushing the limits of atomic dark matter . . .

Megan McDuffie, Gregory Suczewski, Rouven Essig et al.

Toward the two-loop effective field theory of large scale structure...

Evan Saraivanov, Vivian Miranda, et al.

*Cosmo group
preparing:*



YITP (IV)

Fields, Strings & Math-Phys . . .

Bootstrapping Pion Form Factors at Large N

Dilara Kosva, Jan Albert (alum.), Leonardo Rastelli

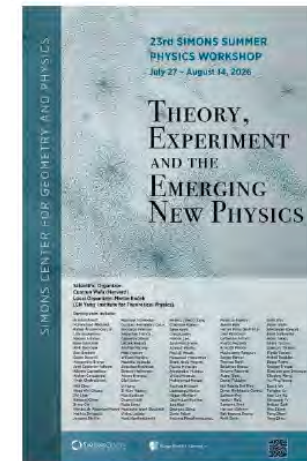
What is tree-level heterotic string theory?

Mathieu Boisvert, Waltraut Knop (alum.) Leonardo Rastelli

Universalities of defects in quantum field theories

Siwei Zhong

23rd Simons Summer Workshop.
Martin Rocek et al. bringing the
world to Stony Brook each summer
This year with Meade & Miranda talks!

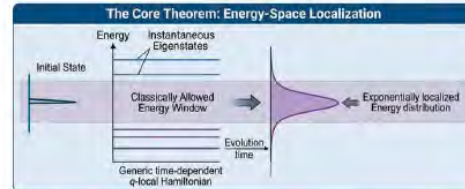


YITP (V)

Quantum Information, Condensed Matter and Related . . .

Universal energy-space localization and stable quantum phases against time-dependent perturbations...

Hongye Yu, Tzu-Chieh Wei (Nature Communications)



Coupled-layer codes: beyond quantum product constructions

Shuyu Zhang, Tzu-Chieh Wei, Nathanan Tantivasadakarn

Yang-Mills flows for multilayered graphene

Vasilii Iugov, Nikita Nekrasov

+ many ongoing projects in all these fields. . .



SCGP

Mission

- Research in Theoretical Physics and Geometry, understood in general terms
- Service to the community. Organizing and running workshops and programs
- Outreach for the university and the community around it

Simons Center Senior Faculty (Physics and Math)



Director: Ludmil Katzarkov
(Math)



Deputy Director: Samuel
Grushevsky (Math)



Zohar Komargodski (Physics)



John Pardon (Math)



Nikita Nekrasov (Physics)

2026 Fields Medal

Simons Center - Current postdocs

PHYSICS



Alexander Frenkel



Jacob McNamara



Maria Nocchi



Fedor Popev



Matteo Sacchi

MATH



Yash Uday Deshmukh



Mingyang Li



Joseph Helfer



Chen Zhang



Dilshad Imon



Filip Zivanovic

Seminars and Events

Regular Seminars

SCGP Weekly Talk: Tuesday, 1:15pm, SCGP 102

Colloquium style talk for general audience of physicists and mathematicians,
(it does not happen regularly)

Physics Seminar: Wednesdays, 2:00pm, SCGP 313

Theoretical physics seminar

Special Events

Follow for all updated schedules and announcements of public lectures,
art and cultural events, etc



SIMONS CENTER
FOR GEOMETRY AND PHYSICS



Stony Brook University

CENTER FOR ACCELERATOR SCIENCE AND EDUCATION



Ernest Courant Traineeship in Accelerator Science and Technology

CASE (SBU & BNL), in collaboration with FERMI National Accelerator Laboratory operates the Ernest Courant Traineeship in Accelerator Science & Engineering funded by High Energy Physics office of the US Department of Energy – 10 years, \$6.6M awards – we are starting Year 8

<http://case.physics.stonybrook.edu>



Vladimir Litvinenko

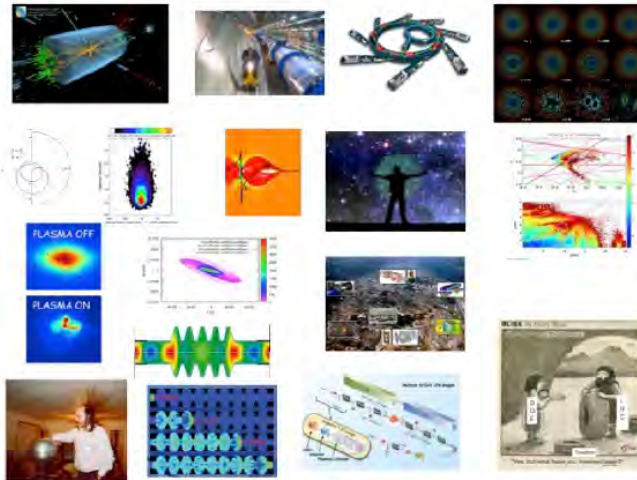


Navid Vafaei-Najafabadi

Accelerator Physics research

Electron Ion collide, Polarized Electron Guns, Super-conducting RF system, Laser-plasma accelerators, Future Colliders, Quantum Computing

CASE grants and awards exceeded \$5M



Important publications:

Towards advanced polarized electron sources, V.N. Litvinenko, N. Bachhawat et al., Nature Physics v. 22, 325

Plasma electron acceleration driven by a long-wave-infrared laser, R. Zgadzaj, J. Welch et al., Nature Com. 15, 4037

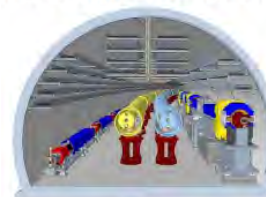
A linear collider vision for the future of particle physics, C. Balazs et al., Eur. Phys. J. Spec. Top. 235, 1641

Main research projects

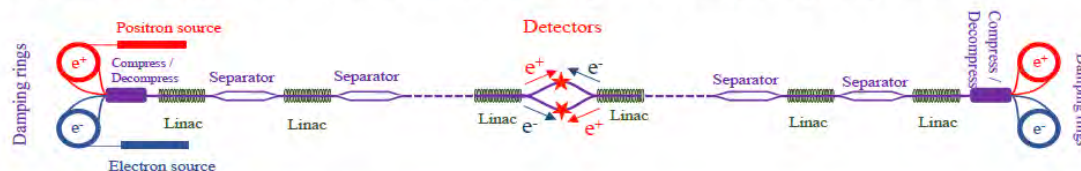


Electron Ion Collide & future e⁺e⁻ colliders

- There is a lot of accelerator physics challenges for Electron Ion Collider to reach $10^{34}/(\text{cm}^2\text{sec})$ luminosity

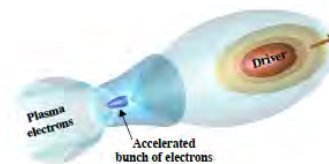
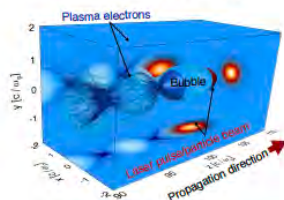


- Environmentally-friendly recycling e⁺e⁻ collider for Higgs and Beyond-Standard-Model physics with the c.m. energy and luminosity reach beating other competing proposals



Wake-Field Accelerators

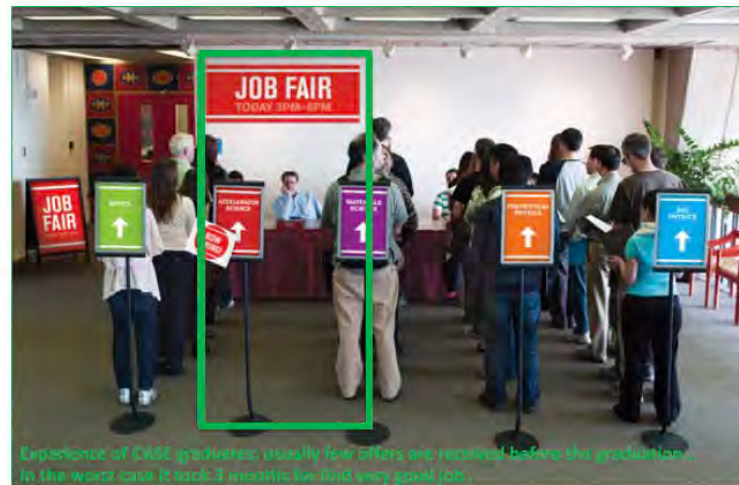
- Laser-driven plasma accelerator generated by ATF's unique high-power CO₂ laser
- Injection and acceleration sub-fs electron beams in particle-beam driven plasma waves
- Research relevant to laser-driven plasma fusion.

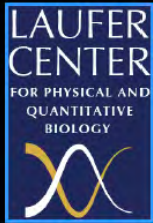


Join Us



- CASE offers outstanding research opportunities: plasma wakefield accelerators, generation of polarized and unpolarized high brightness beams, 21st century beam-cooling techniques, electron-ion collider at BNL and energy frontier e^+e^- collider, machine learning and many more.
- The Ernest Courant Traineeship offers support for qualified graduates (MS and PhD) students, and the opportunity of Certificate in Accelerator Sciences for highly thought-out specialties





The Laufer Center

The physics of biomolecules & cells



Laufer Center Questions

- *How do biomolecules achieve their functions?*

Physics, computation & machine learning.

- *How do cells adapt to environments?*

Physical principles of homeostasis & evolution.

- *How do networks make decisions?*

Network flows & control in cells & brains.

Laufer Center New Faculty

Ramon Grima (September 2026)

*Transcriptional dynamics.
Stochastic reaction networks.*



New TT Assistant Professor Search in AY26-27

To start in Fall 2027

In the area of Theoretical Biological Physics
Joint Position P&A (tenure home) and Laufer Center

Activities & Recognition

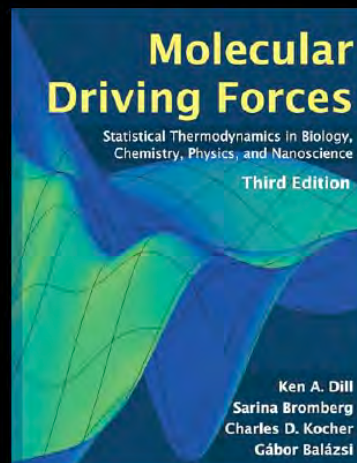
SBU Investiture

5 Endowed Laufer Center faculty



New Edition of PHY 558 Textbook:

Dill, Bromberg, Kocher, Balázsi,
Molecular Driving Forces, 3rd Edition (MIT Press)



U.S. News and World Report Rankings

- Global Discipline Ranking

- Comprehensive Ranking

- Publication, Citation, Reputation and International collaboration

- Survey, a year prior to the publication

- SBU Physics Global 2026-2027: **#39**

- (2025-2026: **#39**) (2024-2025: #47) (2023-2024: **#77**)

- SBU Physics National 2026-2027: **#18**

- (2025-2026: **#19**) (2024-2025: #21) (2023-2024: **#27**)

Year of publication	Physics Global Ranking	
	Overall	US
2015-16	59	*
2016-17	53	*
2017-18	50	*
2018-19	55	*
2019-20	61	*
2020-21	73	*
2021-22	70	*
2022-23	63	*
2023-24	77	27
2024-25	47	21
2025-26	39	19
2026-27	39	18

Source: US News and World Report



US News and World Report Global Physics Rankings: U.S. Universities above SBU P&A

■ Private

1. MIT
2. Harvard
4. Stanford ↓
5. Caltech
6. Chicago
7. Princeton
8. Columbia
11. Cornell
13. Yale ↑
22. UPenn ↓
23. Northwestern ↓
24. Duke ↑

■ Public

3. UC Berkeley ↑
9. UC Santa Barbara ↑
10. U. of Washington ↓
12. U. of Illinois ↑
14. U. of Maryland ↓
15. UCLA ↑
16. U. of Michigan ↓
17. U. Texas, Austin ↓
18. Stony Brook U ↑
19. Penn State ↓
20. U. of Colorado ↑
21. U. of Wisconsin-Madison ↑
25. UC San Diego ↑



Historic Donation to YITP

Historic \$12 Million Gift from Jack Yongfeng Zhang, PhD '87 and Mary Zi-Ping Luo, PhD Propels Yang Institute into the Future

March 12, 2026 6 min read



Exceptional Congratulations to YITP!!!



Establishment of Jim Lattimer Excellence Fund for Astronomy

- Establishment of “as use” fund account for the Astro group for immediate use
 - Additional establishment of an **endowed fund** account that will be built up to \$150k in 5 years
 - This will generate a 50% matching from the Simons funds
 - And it will yield at least \$10k per year to be used for the astro group’s various activities
 - Scholarships
 - Travel grants
 - Seminar expenses
 - Other misc. use
- This is part of the overall dept goal of having an “excellence” fund for each research group



Update on Other Giving to the Department

- Past Donations (since 2022)

- Dean Schamberger Excellence Fund (endowed and current use)

- for HEP and the Department
 - Being used for various HEP/Dept activities including C.N. Yang colloquium

- Fumi Kato Excellence Fund

- for the Department
 - Being built up

- Ben Lee Memorial Postdoc Fellowship Fund

- Being built up by Ben Lee's family
 - Also other donations are being made

- Chair's Excellence Fund

- Used for various departmental activities

- This academic year, the department plans to make **more and larger** scholarships/fellowships and awards to the students



Anonymous Contributions

- Major Anonymous Contributions to the P&A Excellence Funds

- “as use” fund account → Chair’s Excellence Fund

- Endowed fund account

- Great and critical impact on the departmental activities

“The Fund shall be established to cultivate, sustain and further excellence in the Physics and Astronomy in the College of Arts and Sciences at Stony Brook. The Fund shall provide general support, including but not limited to support of programs, student activities, travel to conferences, social/networking events, expenses related to local workshops, panels and invited speakers, retreats, and other training-related expenses.”

Thank you to all who contributed 🙏

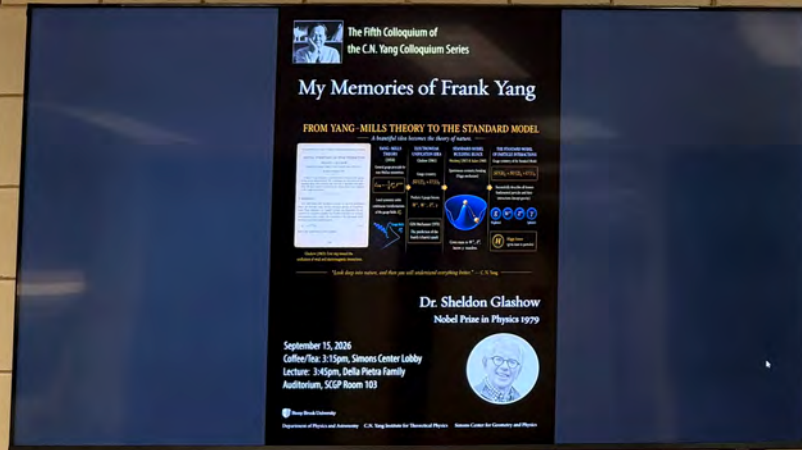


Building, Facilities and Labs

- Physics Building Elevator Replacement
 - The work has actually started
- Physics/Math Plaza Renovation
 - The work will start this fall
- Physics Building Main Lobby
- Various Labs
- D-122, HEP Seminar Room



Remodeled Physics Building Main Lobby



Quantum Design Teaching and Materials Discovery Lab



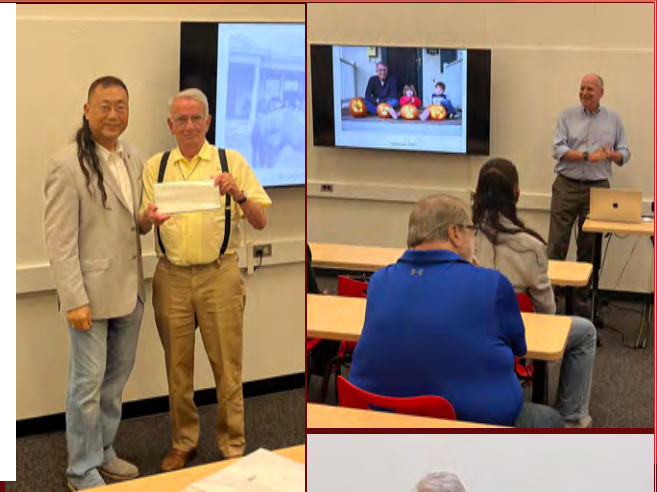
Mengkun Liu's Initiative
Congratulations!



Dedication of Paul Grannis High Energy Physics Seminar Room



In deep appreciation of his pioneering contributions to experimental particle physics, in particular, his leadership of the DØ experiment and the discovery of the top quark, of his lifelong dedication to teaching and mentoring, and of his love for Stony Brook.



Appointment of Kuunal Mahtani as Department Web Czar



Kuunal Mahtani

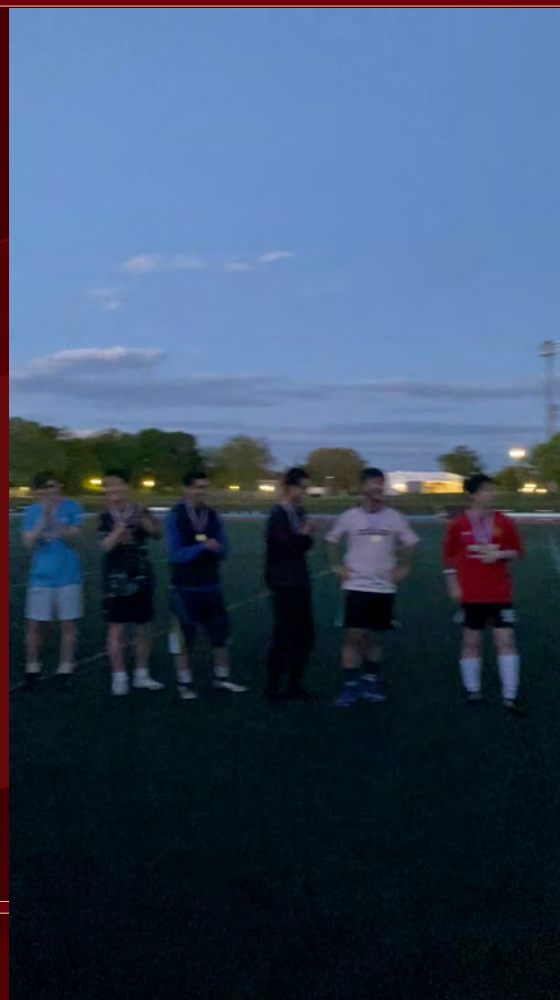
Kuunal, a Ph.D. student in the Neutrino and Nucleon decay (NN) Group has been appointed the Web Czar for the department replacing the past Web Czar Anthony Mannino who graduated this summer. They had worked very hard together to make our department website to be in compliance with the new Title II/ADA regulations

Thank you, Anthony!

Anthony Mannino



5th Annual P&A Chair's Cup Soccer Tournament



Final Score
May 7



yitp **4** vs **6** Condensed Matter

YITP Condensed Matter

@sbupasoccer

FINAL RESULTS



yitp **2** **1** **3** NUCLEAR

YITP Condensed Matter NUCLEAR

★★★ STONY BROOK UNIVERSITY ★★★

CHAMPIONS



Condensed Matter

★★★ STONY BROOK UNIVERSITY ★★★

5TH ANNUAL PHYSICS & ASTRONOMY CHAIR'S CUP

Individual & Team Awards

Most Valuable Player
David Frenklakh (Nuclear)

Most Scoring Player
Daniel Cazorla (Condensed Matter)

Best Goalkeeper
Raymond Blackwell (Condensed Matter)

Fair Play Award
Nuclear
For their sportsmanship and inclusivity.

Commissioner Award
Social Media Manager team:
Maria Mitrakova, Gillian Winters, Yuri Mitrakov.

★★★ STONY BROOK UNIVERSITY ★★★

Physics and Astronomy



Stony Brook University

5th Annual P&A Chair's Cup Soccer Tournament

- Another excellent season
 - Building a tradition
- Excellent participation
 - Faculty members participated
 - Eden Figueroa (AMO)
 - Simon Birrer (Astro)
 - Raymond Blackwell (CM)
 - Cyrus Dreyer (CM)
 - Qiang Li (CM)
 - Valerio Dao (HEP)
 - Ciro Riccio (HEP)
 - Dmitri Tsyvychev (HEP)
 - Axel Drees (Nuclear)
 - Jan Bernauer (Nuclear)

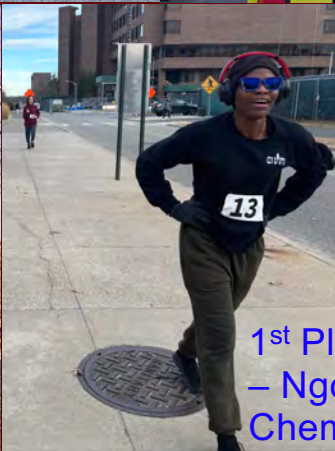


Excellent social media presence → a great promotion of the department and the university



The 2nd (and 3rd) Chemistry and P&A 5K Challenge

- Tuesday, December 9, 2025
 - The event went exceptionally well despite a bit of chilly weather
 - **The winning department: P&A**
 - Much smaller margin of winning score than last year
- The 3rd Chem and P&A 5K Challenge: **May 12, 2026**



1st Place Female
– Ngozi Ohagwa,
Chemistry

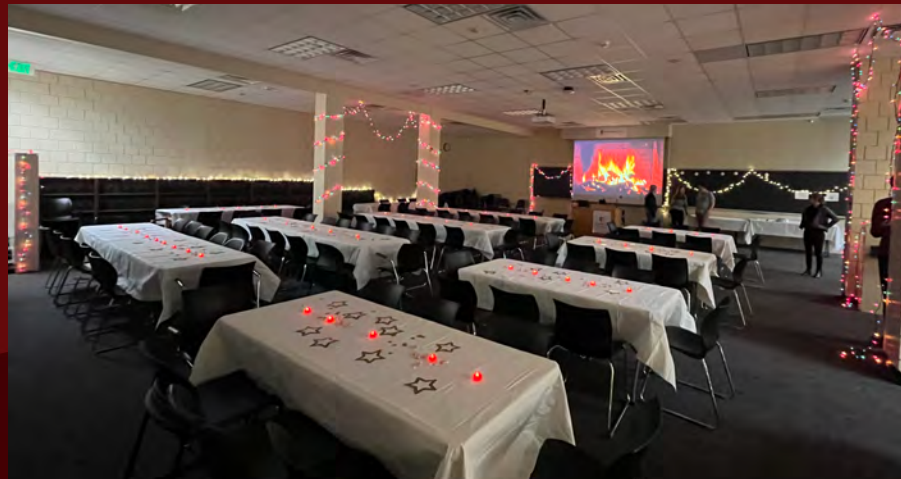


1st Place Male & non-binary
– Josh Martin, P&A



2025 Department Holiday Party

- Another successful department holiday party
- QoL committee: Gillian Winters, Navid Vafaei-Najafabadi, Nathan Schappin, Hannah Arnold, Thomas Weinacht, **Ciro Riccio (Chair)**; Melissa Rasmussen, Gabriel Augustynowicz, Julia Codere (grads); and Alo Chakravarty (undergrad)
- Grad students: Evan Trommer, Ben Levine, Brianna Romasky, + other students



2025 Department Holiday Party



Chair's Colloquium, Aug. 25, 2026

Chang Kee Jung

Dept. of Physics and Astronomy



Stony Brook University

2025 Department Holiday Party: The Winners



Junior Faculty Reception, Sep. 21, 2025



Chair's Colloquium, Aug. 25, 2026

Chang Kee Jung

Dept. of Physics and Astronomy



Stony Brook University



The first Faculty & Staff
Achievement Appreciation
Reception
(May 2026)



2026 Department Summer Socials

- Accelerator Physics (AP)
- AMO
- Astronomy
- CM
- HEP
- NP-1 Experiment
- NP-2
- Laufer Center
- YITP
- SCGP
- **BNL**
- **Chemistry**

May 29 – CM+Chair

June 5 – NP-1 (CFNS)

June 12 – **Chemistry**

June 19 – No Social (Juneteenth)

June 26 – No Social

July 3 – No Social (4th of July)

July 10 – HEP

July 17 – Astronomy

July 24 – YITP

July 31 – AMO

August 7 – AP+Laufer Center Astronomy

August 14 – **BNL**

August 22 – Last Social: **Staff**+Chair



Friday BBQ Social Hosted by the Chair and the Staff

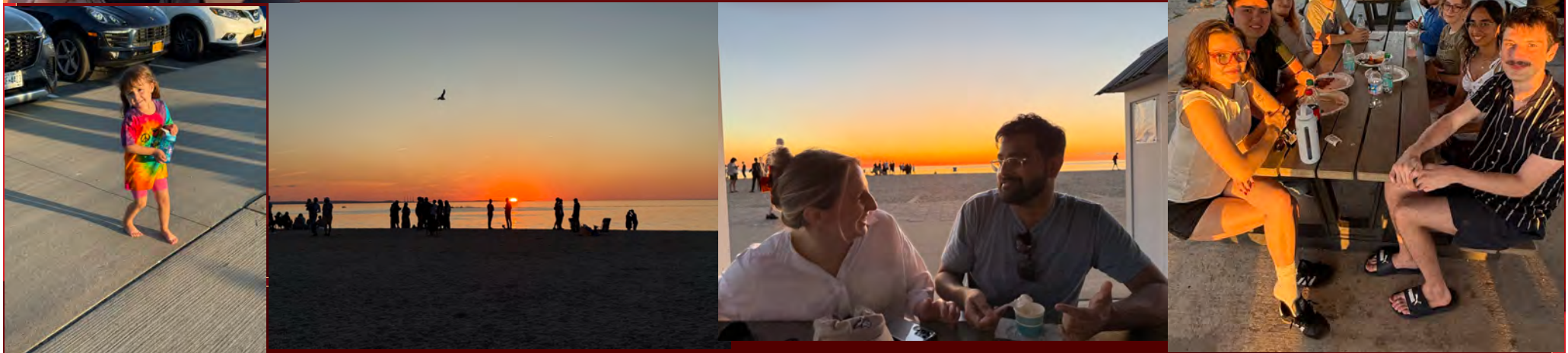


First BBQ co-hosted by the staff

- Highly successful
- Part of Chair's initiative to involve the staff more in the department affairs
- Added to the tradition
- Megan (HEP group administrator) already has a grand plan for next year!



Department Picnic at West Meadow Beach, Sep. 19, 2025



In closing, let's continue working together to improve the department and make it a warm, welcoming and fun place with high academic excellence, where everyone wants to come.

See you all at the P&A Department Picnic

Friday, Sep. 4, 5:00 pm

West Meadow Beach



Thank you 🙏
The End

