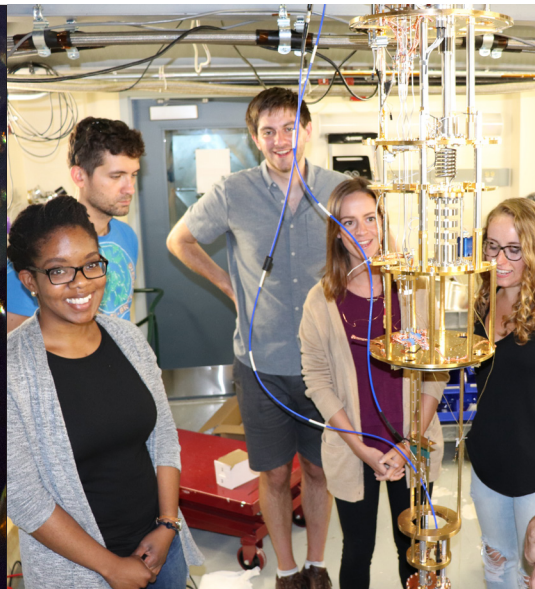
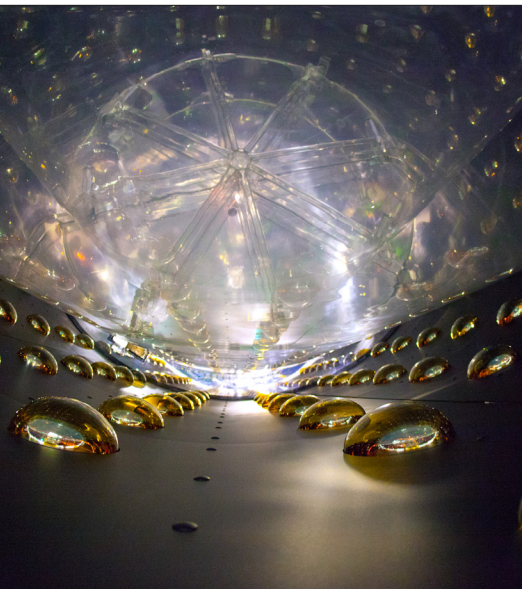




Wright Laboratory

Exploring the Invisible Universe



What does the Universe consist of?

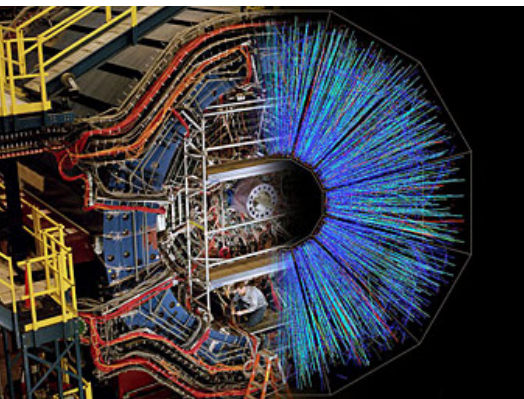
What is dark matter?

What are the properties of neutrinos?

What are the states of matter in the early Universe?

What drives the evolution of the Universe?

Discover more at wlab.yale.edu



Understanding our Universe

Wright Lab is advancing the frontiers of fundamental physics through a **broad research program in nuclear, particle, and astrophysics**. This includes precision studies of neutrinos, searches for dark matter, investigations of the building blocks and interactions of matter, exploration of quantum science and its applications for fundamental physics experiments, and observations of the early Universe.

Research and Discovery

Wright Lab enables discovery and training in a wide range of **research areas**, as well as cross-disciplinary efforts between fields, including:

Astrophysics and Cosmology

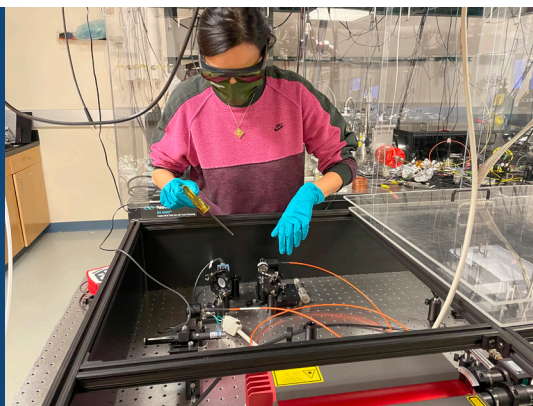
Elementary Particles

Instrumentation Development

Neutrinos and Fundamental
Symmetries

Quantum Science and Sensing

Relativistic Heavy Ions



Discover more about Wright Lab research at wlab.yale.edu/research.

Preparing Future Scientists

Wright Lab supports a diverse community of scientists, staff, and students. **Discover more** about our community and how we prepare future scientists through the voices of our students at wlab.yale.edu/videos.



Worldwide Collaboration

Wright Lab fosters **research collaborations** at Yale and worldwide, including:

Campus Collaborations: Yale Center for Astronomy and Astrophysics, Yale Center for Research Computing, Yale Quantum Institute, Institute for the Preservation of Cultural Heritage, Center for Collaborative Arts and Media, Peabody Museum of Natural History, Yale Pathways to Science

National Laboratory Partners: Brookhaven National Laboratory, U.S.; CERN, Switzerland; Fermilab, U.S.; INFN Gran Sasso National Laboratory (LNGS), Italy; Oak Ridge National Laboratory, U.S.

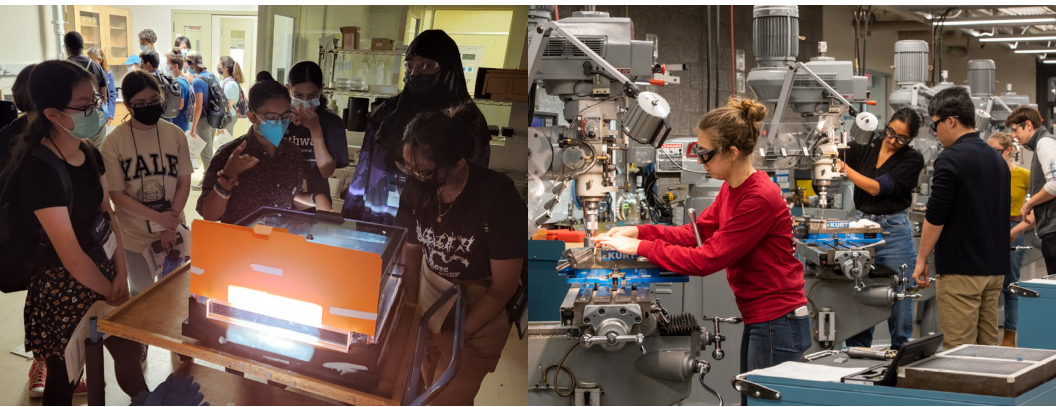
National and International Collaborations: ALICE, ATLAS, CHIME, CO-SINE-100, CUORE, CUPID, Daya Bay, DESI, DUNE, EIC, HAYSTAC, HIRAX, IceCube, nEXO, Project 8, PROSPECT, QUEST, Roman Space Telescope, Simons Observatory, SIMPLE, STAR

A Hub of Ideas

Wright Lab frequently hosts **conferences and workshops**, as well as **seminars and discussion groups**, including:

Nuclear Particle Astrophysics research seminars
WIDG talks by graduate students on their research
Yale Physics Professional Development Organization
Dark Matter Discussion Group
The Elusives Journal Club
Instrumentation Lunch

Discover more Wright Lab events at wlab.yale.edu/calendar.



Outreach

Wright Lab promotes the value of science in society and develops science communication skills for Wright Lab researchers through regular outreach programs led by Wright Lab community members. **Discover more** at wlab.yale.edu/events/outreach.

Facilities for Research, Education & Innovation

Wright Laboratory supports research by providing shared, on-site facilities for instrumentation development, experimental investigations, and training. **Discover more** at wlab.yale.edu/facilities.

Yale and New Haven

Wright Laboratory is part of the Physics Department of Yale University, a world-class research institution that has a symbiotic relationship with the city of New Haven. The combination of Yale and New Haven provides a plethora of both scholarly and extracurricular activities, as well as easy transit to New York City and Boston.



Yale

