



Facilities for Research, Education and Innovation

Wright Laboratory supports research by providing shared, on-site facilities for instrumentation development, experimental investigations, and training:

Yale University Core Facilities at Wright Lab

- Advanced Prototyping Center
- Research Support Shop
- Teaching Shop
- J.W. Gibbs Professional Shop

Physics Research Facilities at Wright Lab

- CAD and Remote Operations Room
- Clean Rooms
- Cryogenic laboratory
- Detector development laboratory
- Low background facility
- High-bay area "the Vault"
- Laser Rooms
- RF-Shielded Room
- Wood and Plastic Shop
- Investigator Laboratories
- Server Rooms for Physics and Astronomy

The Wright Lab community also has access to high performance computing at Yale's Center for Research Computing.



Discover more about Wright Lab through the voices of our students at wlab.yale.edu/videos.



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.



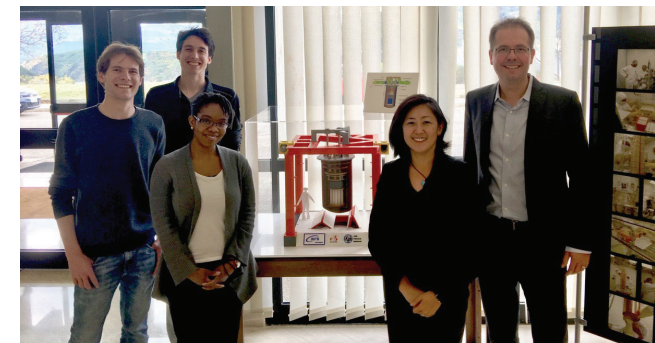
Yale



Portal to the Universe

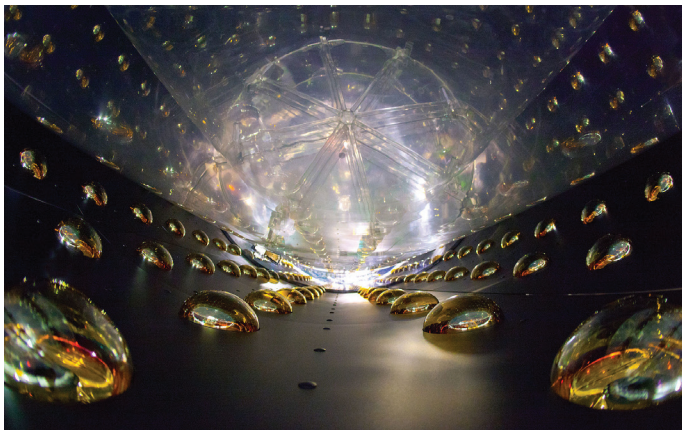


What does the invisible universe consist of?
What is dark matter?
What are the properties of neutrinos?
What are the states of matter in the early Universe?
What is the structure of matter?
What drives the evolution of the Universe?



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wlab.yale.edu



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

The mission of Yale Wright Laboratory is to advance understanding of the physical world, from the smallest particles to the evolution of the Universe, by engaging in fundamental research, developing novel applications, training future leaders in research and development, educating scholars, and enabling discovery.

Wright Lab supports a diverse community of scientists, staff, and students who advance our mission and fosters cross-disciplinary collaborations across Yale University and worldwide.

Wright Lab's **unique combination of on-site state-of-the-art research facilities, technical infrastructure, and interaction spaces** supports innovative instrumentation development, hands-on research, and training the next generation of scientists. Wright Lab researchers collaborate with scientists around the world and experiment at **world-class research facilities**, including:

Brookhaven National Laboratory, United States
CERN, Switzerland
Daya Bay, China
Fermilab, United States
Laboratori Nazionali del Gran Sasso, Italy
Oak Ridge National Laboratory, United States
Yangyang Laboratory, South Korea

Wright Lab enables discovery in a wide range of **research areas** from the smallest particle to the evolution of the Universe and frequent cross-disciplinary efforts between fields:

Relativistic Heavy Ions
Neutrinos and Fundamental Symmetries
Elementary Particles
Astrophysics and Cosmology
Quantum Physics and Devices
Beam Physics

Wright Lab frequently hosts conferences and workshops for its international collaborations, as well as regular seminars:

Nuclear Particle Astrophysics research seminars
Weak Interaction Discussion Group
Yale Physics Professional Development Organization

