AWANOW 2023

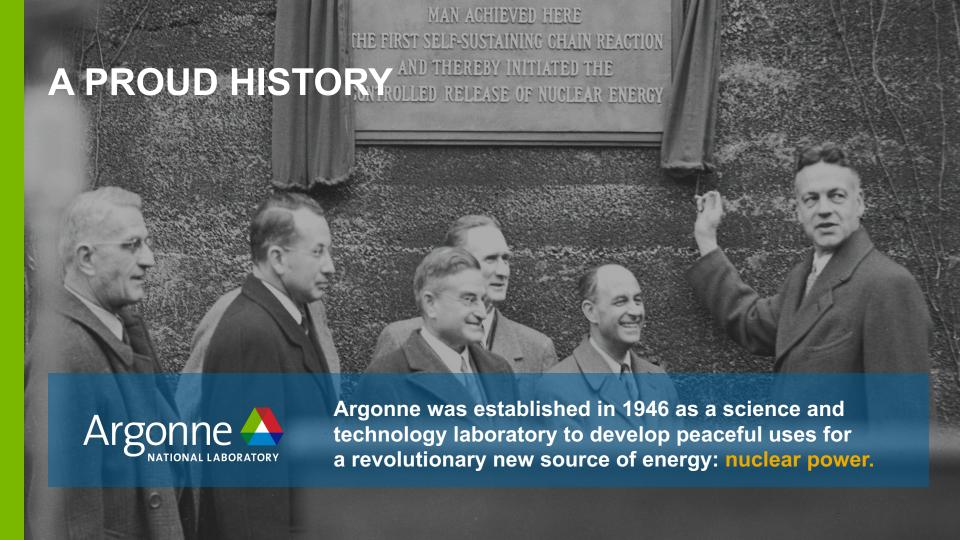


ARGONNE NATIONAL LABORATORY AND HIGH ENERGY PHYSICS



RIK YOSHIDA HEP DIVISION DIRECTOR ARGONNE NATIONAL LAB





DIVERSIFIED RESEARCH PORTFOLIO

\$1.1 Billion in FY2021

End to End

From discovery to application

User Facilities

Integrated with our research

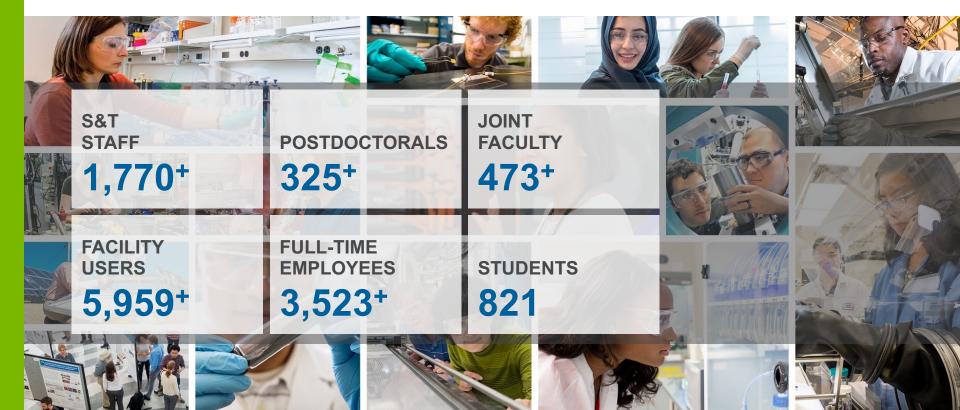
Collaborations

Within and outside of Argonne



FOSTERING A DIVERSE, WORLD-CLASS COMMUNITY OF TALENT

FY2021



ARGONNE'S RESEARCHERS AND DISCOVERIES ARE WIDELY RECOGNIZED



R&D 100

Awards

700+

National and international awards and honors



Inventions recorded and patents issued



Numerous DOE commendations, including Secretary's Awards

Nobel Laureates



1938 Enrico Fermi



Maria Goeppert Mayer



2003 Alexei Abrikosov



ARGONNE AND ARGONNE HEP



Materials, Nanoscience

Leadership Computing

Nuclear Physics

Photon Science

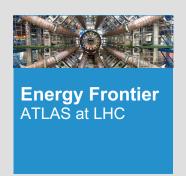
AN ENVIRONMENT WITH MANY OPPORTUNITIES FOR SYNERGIES

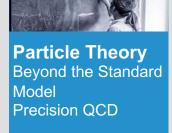
"ARGONNE High Energy Physics division (HEPD) will carry out cutting edge research in Energy, Intensity and Cosmic Frontiers while becoming a hub of innovation in the utilization of the new developments in computing, detectors and accelerator technologies for HEP science". Argonne HEP Vision Document submitted to DOE-HEP March 2021 HEP Division ~100 members ~40 core staff

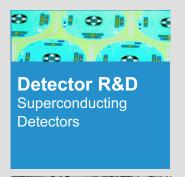
HEP DIVISION MAIN RESEARCH THRUSTS









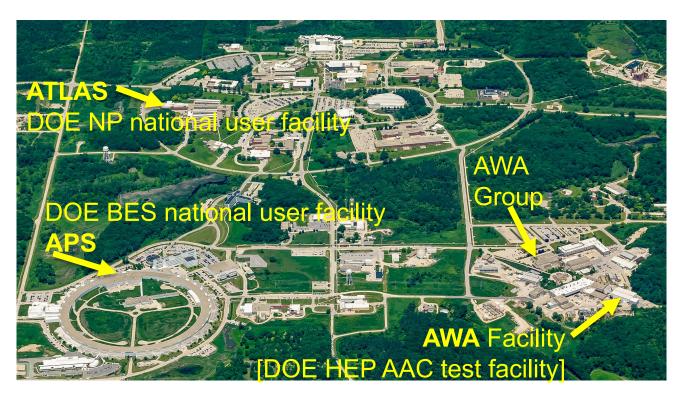




Cross-cutting

- Computing
- AI/ML
- QIS

ARGONNE ACCELERATOR INSTITUTE (AAI)



- 3 main accelerators at Argonne
- BES user facility (light source)
- NP user facility (heavy ions)
- HEP test facility

Basis for many synergies



