



What's new at Fermilab?

Community Advisory Board meeting

July 25, 2024

Office of Communication

From the newsroom

- 11 stories posted in the Fermilab newsroom

Top press releases:

- New NOvA results add to mystery of neutrinos - 2,200 Views
- Fermilab opens new QUIET underground quantum information science laboratory -1,100 Views



Fermilab celebrated the opening of the newest laboratory, the QUIET lab located a hundred meters underground in June.



The NOvA collaboration

Top stories in the newsroom

- Fermilab champions Equity, Diversity, Inclusion and Accessibility with awards ceremony (press release) - 1,100 Views
- QUIET: a place to study qubits shielded from the effects of cosmic rays 1,400 Views



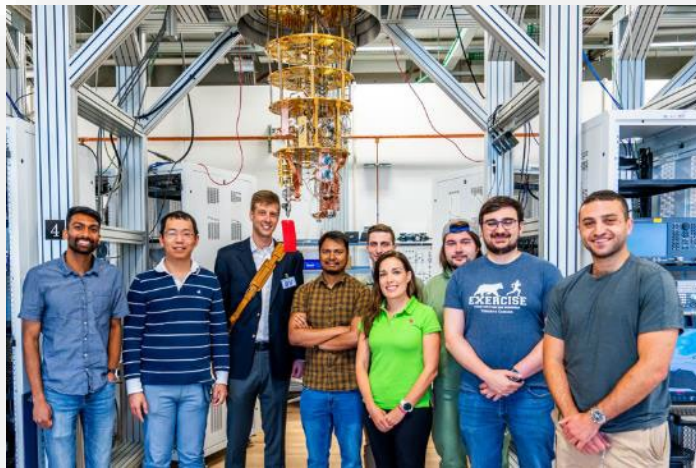
The Technician Education for Careers out of High School program will strengthen recruitment of the laboratory's technicians who are critically important to the lab's operations and future projects.



The underground QUIET laboratory space provides shielding from interference caused by cosmic rays.

Stories of note from the newsroom

- IBM intends to partner with Fermilab's SQMS Center to advance critical quantum information science initiatives (press release) 559 views; Huge international coverage in the U.S. and Japan
- Fermilab's Anna Grassellino receives prestigious Marisa Bellisario Award (press release) 645 views; Big news in Italy and the U.S.



SQMS and IBM will work together to advance technologies critical for scaling up quantum computers to large-scale data centers.



Anna Grassellino received the Marisa Bellisario Award, "Women who make the difference," from Italian Minister of Foreign Affairs Antonio Tajani. Credit: Marisa Bellisario Foundation

New Fermilab videos



Even Bananas

Can neutrinos escape a black hole? - 60,865 views

Dr. Kirsty Duffy and NASA scientist Dr. Regina Caputo as they explore what neutrinos and black holes could reveal about each other.

Don Lincoln

How the Higgs boson was discovered - 90,000 views

Don Lincoln presents the discovery of the Higgs boson in 2012, the culmination of decades of work.



Social media

For Neutrino Day on July 9, we hosted a live one-hour Q&A on Instagram



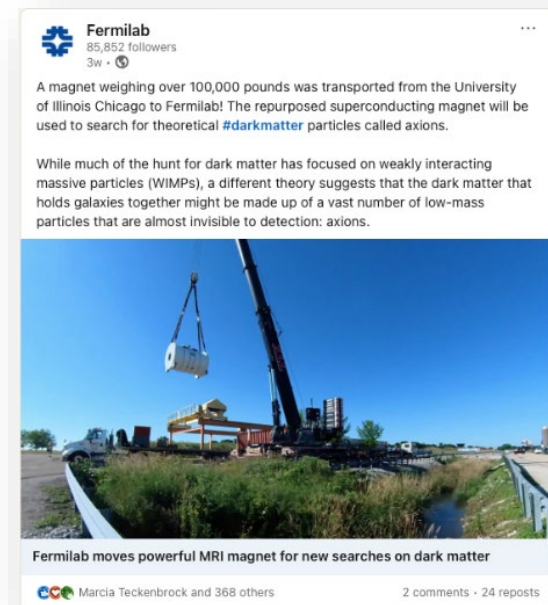
Expanding our social media reach



Fermilab is now on Threads, from Meta
With Threads, you can view and share public conversations.
Fermilab joined March 2024 and have over 11k followers on the platform since joining at around 5k.



The QUIET lab opening post was viewed over 6,000 times on Threads. Quite impressive since this was more than half of our followers in June.



The posting on the MRI magnet move from UIC to Fermilab was viewed by over 20,000 viewers on LinkedIn.

Social media



Fermilab created graphics for social media platforms acknowledging Pride month

Fermilab's 57th birthday posing on Instagram was viewed over 32,000 times. It was also shared by Illinois Senator Tammy Duckworth on Facebook.



The discovery of the Higgs boson celebrated its 12th anniversary. Post was viewed over 56,000 times on X/Twitter and shared by CERN.



Fermilab in the news



SHORT WAVE



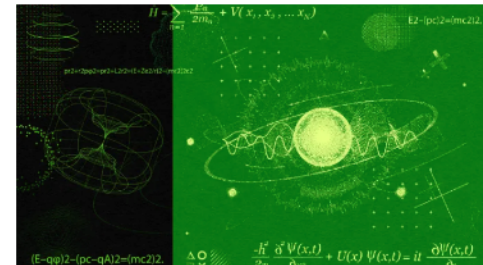
**This mysterious energy is everywhere.
Scientists still don't know what it is**



HARD SCIENCE — JUNE 25, 2024

Why the U.N. declared 2025 the “International Year of Quantum Science and Technology”

The evolution of quantum technology is far from over.



Adobe Stock / Sergey Bitos / Big Think / Vincent Romero

Leading educational change

Teacher Research Associates (TRAC) program

- Provided summer internships for high school and middle school teachers nationwide.
- June 3, 2024 – August 9, 2024
- Five teachers participated program guided by Fermilab scientists.

Teacher representation:

- Two from Chicago
- Three from outside Illinois (one each from Florida, New York, and Texas)



From May 20 – July 19,
Fermilab welcomed 1,357
public visitors.

Supporting academic excellence

ACT-SO: Afro-Academic, Cultural, Technological, and Scientific Olympics

The national competition for ACT-SO takes place in conjunction with the NAACP national convention between July 11-17.

Fermilab partnered with Argonne and the University of Illinois Chicago to support students in the NAACP's ACT-SO competition, focusing on STEM categories.

- 25 students participated locally; seven advanced to the national competition
- At the national level, the seven students won:
 - 4 gold medals
 - 2 silver medal
 - 1 bronze medal

Brandon Davis, the Bronze medalist, was mentored by Fermilab's environmental program manager, Lori Huntoon.

The DuPage County ACT-SO
2024 national champions
Photo Courtesy of DuPage County ACT-SO



Changing the face of science

Science Accelerating Girls' Engagement (SAGE) Summer Camp: The third annual camp with tours, hands-on projects and inspirational women from across the lab.

Student quotes from the post-camp survey:

- "I felt connected the most when I was on the tours. The tour where we went to various buildings and inside the SQMS I felt like a real scientist working here.
- "The tours and the experiments/projects were when I felt most connected because I could see the different parts of what Fermilab represents and got to do science projects that were similar to the ideals of Fermilab's goals.
- "I liked when we would talk to experts and they would talk about what they were interested in as high schoolers and during projects when we would problem solve together. It kind of created a sense of community."



Questions?

From the newsroom

Revived technology utilized to count individual photons from distant galaxies (press release) 832 views

Fermilab names Jim Kerby as LBNF/DUNE-US project director (press release) 840 views



Skipper charge-coupled devices were mounted atop the SOAR telescope in Chile.



Jim Kerby, the project director of LBNF/DUNE-US.
Photo: Argonne National Laboratory