





# What's new at Fermilab?

**Community Advisory Board meeting** November 21, 2024 Office of Communication

# From the newsroom

9 stories were posted in the Fermilab newsroom between Sept. 27 – Nov. 20

- Designing resilient targets for high-energy particle accelerators, November 5, 2024
- Fermilab camp sparks student interest in STEM careers, October 29, 2024
- A minute with: Akshay Murthy, October 22, 2024
- Successful test delivers DUNE steel beam a mile underground, October 14, 2024
- Work begins for new Fermilab Welcome and Access Center, October 1, 2024



Akshay Murthy is an associate scientist and group leader at SQMS.

Fermilab is updating the main entrance to its campus.





# From the newsroom – press release

Fermilab and Spain sign agreement to strengthen collaboration on the Deep Underground Neutrino Experiment





Fermilab Director Lia Merminga signed the agreement with the Spanish Ministry of Science, Innovation and Universities to further collaboration on the international Deep Underground Neutrino Experiment.

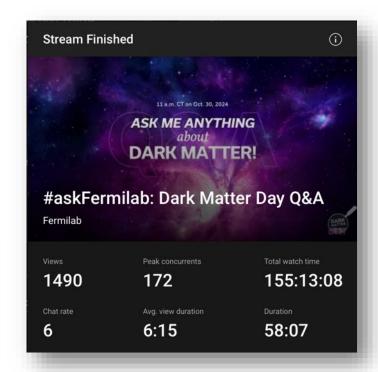


## Social media

### **Dark Matter Day on October 30**

#askFermilab: Dark Matter Day livestream when followers were invited to join Fermilab physicists on YouTube for a live Q&A about dark matter. the event was organized and hosted by social media manager, Caitlyn Buongiorno.



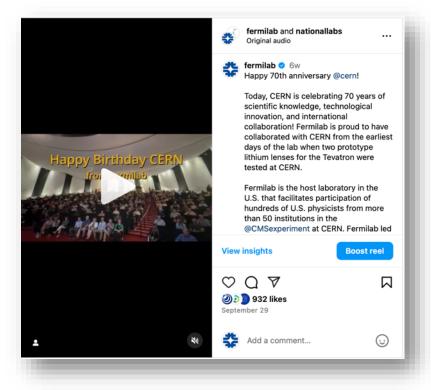


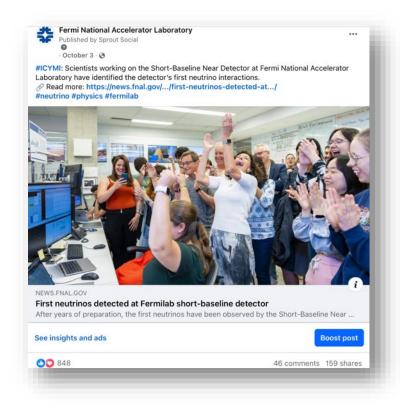
1,490 views and 250 messages during the livestream. Since then, total views has risen to 7.3k.



# Social media

Our "In case you missed it" post regarding SBND's first neutrinos was viewed by 56k accounts on Facebook.

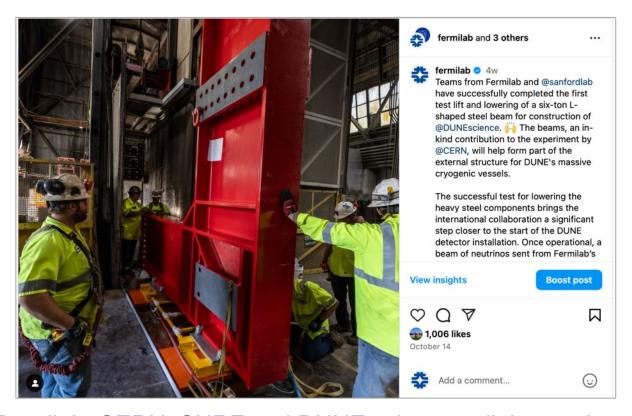




Fermilab collaborated with the national labs Instagram account to <u>celebrate</u> <u>CERN's 70th anniversary</u>. CERN shared our posts. The reel was viewed by over 35k accounts.



## Social media



Fermilab, CERN, SURF and DUNE science collaborated on an Instagram post for the successful first test lift of the steel beams for DUNE. The post was viewed by 34k accounts on <u>Instagram</u>.



### Fermilab in the news



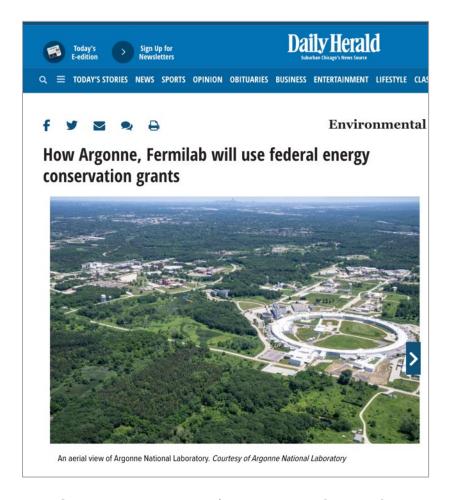


HARD SCIENCE - NOVEMBER 5, 2024

# Will protons last forever? Why scientists are searching for signs of decay

Why hasn't matter fallen apart over billions of years? The mystery might start with protons.

Don Lincoln explores why matter hasn't fallen apart over billions of years.



DOE announced nearly \$150 million in funding for energy conservation and clean energy projects. The funds will support the Fermilab Resilience and Efficiency Project conservation measures across 23 buildings and developing renewable energy generation.





# Fermilab in the news – DUNE

# DAK®TA SCOUT

#### Scientists inch closer to beaming neutrino from Chicago to Black Hills

Successful test delivers DUNE steel beam a mile underground at Sanford Underground Research Lab



Supported from above by a crane, the L-beam is carefully moved into position by the rigging team for transport down the shaft in Lead, South Dakota. (Courtesy of Matthew Kapust, SURF)

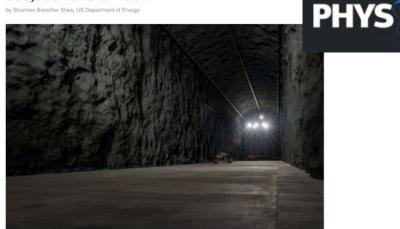


(7) OCTOBER 7, 2024

✓ Editors' notes

Digging into neutrino research: LBNF-DUNE project moves forward with excavation of 800,000 tons of rock

by Shannon Brescher Shea, US Department of Energy







# Fermilab in the news



#### THE PARTICLE ACCELER ATOR: THE BRIGHTEST MAGNIFYING GLASS IN THE UNIVERSE

A particle accelerator, in simple terms, is a machine that accelerates subatomic particles (such as protons, electrons or ions) to extremely high speeds, sometimes close to the speed of light. It sounds like something out of science fiction, but this type of machine has been around for almost a century and has been instrumental in unlocking some of nature's deepest secrets.





#### Cool journey to the center of the Earth: Researchers build superconducting cryomodule prototype





### Fermilab in the news



Afro-Latinx particle physicist at Batavia Fermilab aims to create opportunities for her community









QUANTUM LANDSCAPE

Illinois Aims to Become Quantum Computing Hub with \$500 Million Investment







yahoo!finance



Amentum a Partner on Fermi National Accelerator Laboratory Contract Award



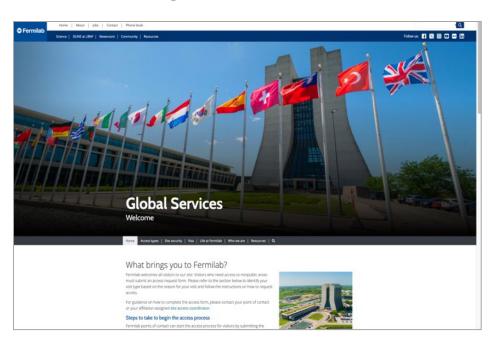
# Website updates

# Fermilab environmental monitoring program



Updated with the results from the most recent water samples collected.

#### **Global Services**

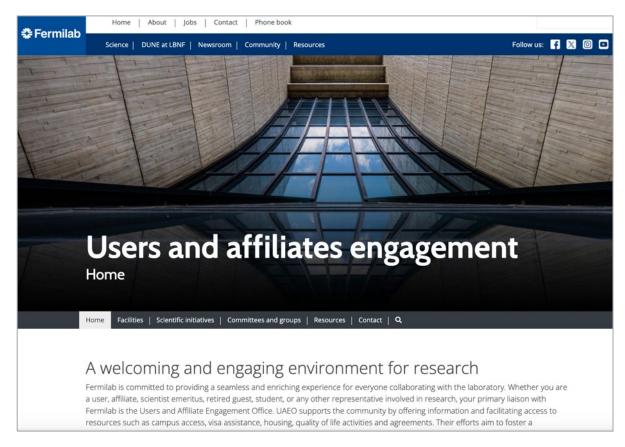


Refreshed and restructured to provide a more streamlined user experience.



# Website updates

#### New website for users and affiliates



A website for visitors coming to Fermilab to do research that provides onboarding resources and site access assistance and other helpful information.



# Outreach Education and public Engagement tours

- Since September 27th, EPE welcomed over 885 participants including students
  from local area junior high and high schools, area university students, K-12 teacher
  workshop participants, our monthly lab tour, representatives from
  the Indian Consulate.
- Mr. Freeze engaged with 680 students in grades 2-12
- EPE's newest program addition, Fermiside Chats, reached a record high in attendance since its inception.
- EPE engaged with Junior Achievement of Chicago for two virtual presentations focused on STEM Careers and World of Work series: Math that Matters: Life, Logic, and Lessons Learned and How is Mathematics and Ecology Linked? reaching more than 500 K-12 students and teachers.



# Outreach Education and public Engagement tours



Fermilab hosted a 24-member delegation from the International Visitor Leadership Program. The IVLP is a U.S. Department of State's Bureau of Educational and Cultural Affairs' premier professional exchange program to build a mutual understanding between the U.S. and other nations through short-term visits to the United States for current and emerging foreign leaders. Credit: Dan Svoboda



# Questions?

