



What's new at Fermilab?

Office of Communication

Tracy Marc, media relations manager

May 25, 2023

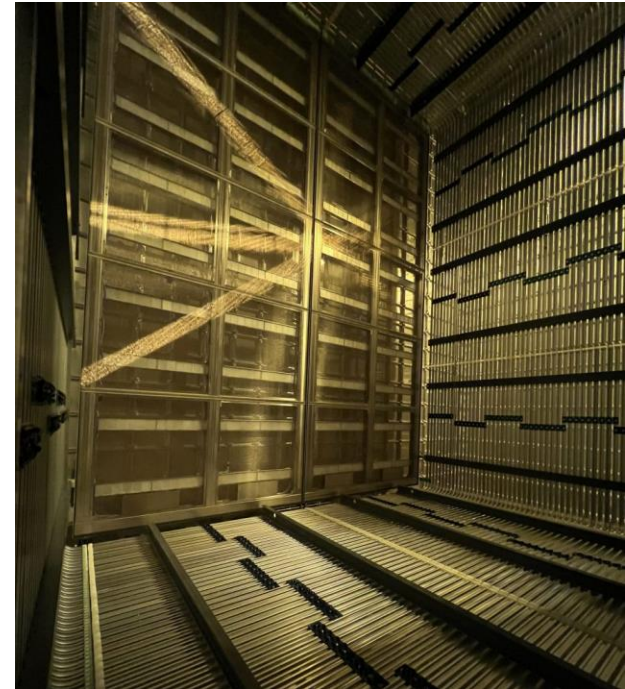
Spring has arrived!



The first bison calf was born April 13. Since then, there have been 16 more babies.

DUNE update

DUNE collaboration ready to ramp up mass production for first detector module



The DUNE collaboration has finished the assembly of their large horizontal drift prototype detector, known as ProtoDUNE II, at CERN. It is the final test before ramping up mass production of DUNE detector components. Photo: DUNE collaboration

DUNE update

DUNE collaboration tests new technology for second detector module



Scientists, engineers and technicians from around the world have gathered at CERN to assemble a large prototype of a new particle detector to study the neutrino, one of the most mysterious types of particles in the universe.

DUNE update

DUNE Resources Review Board to meet in South Dakota for the first time



Scientists, engineers and technicians from around the world have gathered at CERN to assemble a large prototype of a new. Excavation of the caverns is now 65% complete.

Science news

Fermilab scientist recognized for his work improving superconductors used for accelerator magnet



Fermilab scientist Xingchen Xu's work improving superconducting materials has been recognized by the European Physical Society.

DOE visit



DOE Under Secretary for Science and Innovation Geraldine Richmond and Principal Deputy Under Secretary Ali Douraghy visited and toured Fermilab on May 1.

News – sustainability



New role focus:

- Foster Fermilab's current culture of sustainability
- Implement effective sustainability practices used outside the laboratory on campus
- Drive discovery to achieve sustainability in science
- Leverage partnerships within the lab and the local community

Catherine Hurley, Fermilab's new sustainability manager

News – sustainability

New sustainability team at Fermilab



Four, full-time sustainability specialists who work to make the lab more sustainable and support the 2022 Department of Energy Sustainability Plan.

News

10th anniversary of Fermilab's Inventor Recognition Ceremony



- 50 active patents
- 65 graduates of DOE entrepreneurial training programs
- 15 inventors with more than one patent

Fermilab news

DOE graduate student research fellowships



Kenneth Lin, University of California – Berkeley



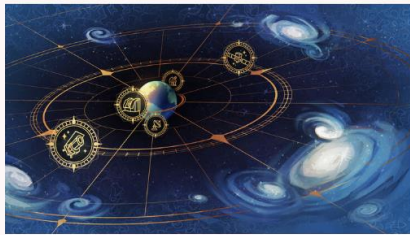
Anthony Wood, University of Houston

The students received the prestigious U.S. Department of Energy Office of Science Graduate Student Research Award to conduct their doctoral research at Fermilab.



From inventor to entrepreneur

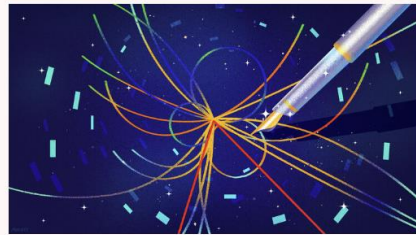
PHOTOS: COURTESY
Creating a path to commercial technology developed during research is a risky road for



05/16/23

Searching for the matter that hides its shine

Just because matter is visible doesn't mean it's easy to see.



05/09/23

Collaboration builds fantastical stories from nuggets of truth

What happens when you pair CERN scientists with science fiction writers to create short stories inspired by particle physics?



05/02/23

Encouraging a new community

Physicists advocate for getting community college students involved in research.



04/25/23

Whatever happened to the theory of everything?

A theory of everything was all the rage in the 1980s. So where did it go?



04/18/23

Practice makes perfect (particle detectors)

Prototyping is an indispensable step in the development of particle physics experiments like DUNE and projects like PIP-II.



04/04/23

Is dark matter the most powerful wave in the universe?

Dark matter could consist of particles so ultralight, they behave more like waves.



03/28/23

A collaboration pairs Fermilab with fashion students

Fashion students at the College of DuPage successfully designed gear to protect Fermilab's SPOT robot from radioactive dust.

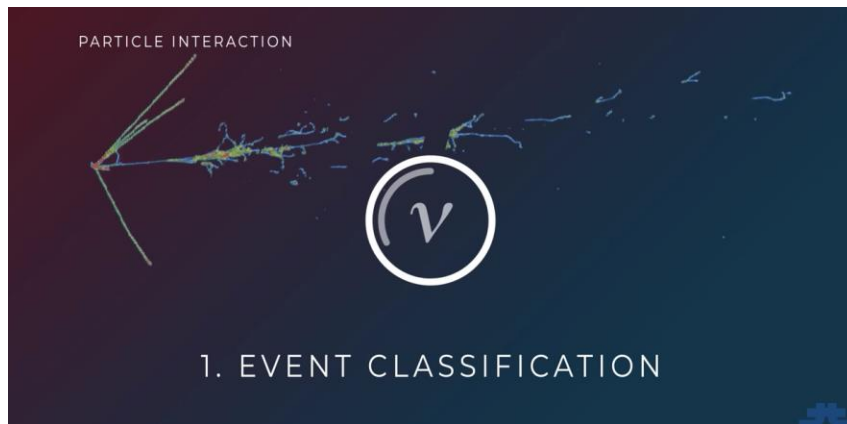
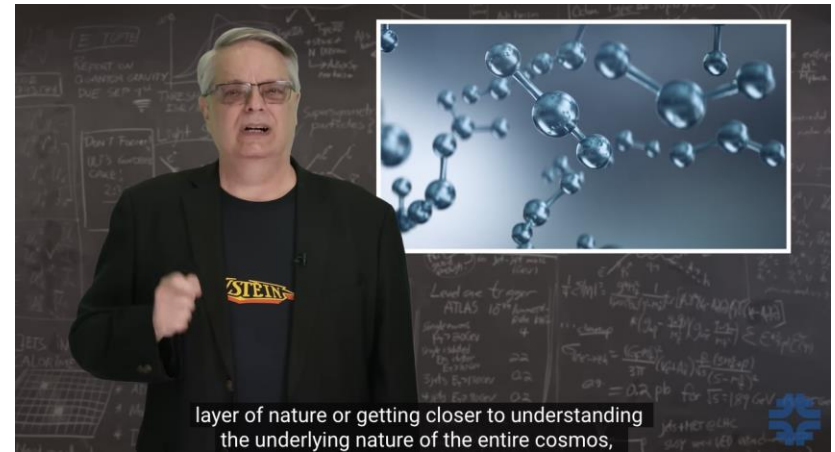


03/14/23

How to put together an international physics experiment

To build the DUNE neutrino experiment and its associated accelerator upgrade, experts invent customized ways to transport fragile, expensive and highly specialized components.

New Fermilab videos



Fermilab in the news



News Sports Talk Events Watch Now Ways To C

Fermilab welcomes new baby bison

By: Will Payne, NCTV17

Published: April 25, 2023 at 6:37 PM CDT

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Fermilab in the news

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BIG THINK

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HARD SCIENCE — APRIL 25, 2023

Is our Universe standing still? Examining Einstein's key theory through the cosmic "yin-yang"

The cosmic microwave background offers clues.



Credit: ESA/LFI & HFI Consortia

LBNF excavation at Sanford Lab on schedule for June 2024 completion

By Wendy Pittick Black Hills Pioneer May 13, 2023 0



Fermilab in the news

The screenshot shows the APS News website interface. At the top left is the APS logo with the text "Advancing Physics". To the right, there are links for "American Physical Society Sites", "APS", "Journals", and "Physics Magazine". Below these is a search bar and links for "Login", "Become a Member", and "Contact". A dark blue navigation bar contains the following menu items: "Publications", "Meetings & Events", "Programs", "Membership", "Policy & Advocacy", "Careers In Physics", "Newsroom", and "About APS".

The main content area features the "APS News" logo and the text "June 2023 (Volume 32, Number 6)". The article title is "Muon Telescope Developed at Fermilab Could Unlock Mysteries of the Great Pyramid of Giza". Below the title is a short paragraph: "At the APS April Meeting, researchers discussed their plans to use fundamental particles to peer inside a wonder of the ancient world." The byline reads "By Liz Boatman | May 11, 2023".

Below the text is a large photograph of the Great Pyramids of Giza in Egypt, showing the three main pyramids and the surrounding desert landscape with a city visible in the distance.

On the right side of the article, there is a sidebar with the following content:

- June 2023 (Volume 32, Number 6)
- [APS News Home](#)
- [Issue Table of Contents](#)
- [APS News Archives](#)
- [Contact APS News Editor](#)
- Articles in this Issue**
- [The Dawn of Bendy, Squishy Robots](#)
- [To Become Brighter, Synchrotron Light Sources Must First Go Dark](#)
- [Muon Telescope Developed at Fermilab Could Unlock Mysteries of the Great Pyramid of Giza](#)
- [The Path to a Clean-Energy Electric Grid Has Roadblocks, but Physicists Can Help](#)
- [This Month in Physics History](#)

Questions?