



What's new at Fermilab?

Community Advisory Board meeting

November 16, 2023

Office of Communication

Fermilab event – Quantum Garage opening

Fermilab's SQMS Center inaugurates quantum information science and technology facility: "The Quantum Garage"



Quantum Garage media coverage



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Quantum Garage unveiled: Fermilab's new Batavia facility holds promise to unlock universe's secrets

By FOX 32 News | Published November 6, 2023 | Batavia | FOX 32 Chicago |

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Fermilab's SQMS Center Opens New Quantum Information Science Facility

by Naomi Cooper November 7, 2023 · 1 min read

Image/Fermilab

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DUNE update

Prototype for DUNE detector will test new technology that can handle more neutrinos



Lab news

Eric Mieland, Fermilab Natural Areas win DOE Sustainability Awards



Eric Mieland received the award in the Sustainability Champion category for his many years of contributions toward Fermilab's sustainability efforts.

Fermilab Natural Areas was recognized with an award in the Strategic Partnerships for Sustainability category for managing the lab's 2,600 acres of natural areas, which encompass more than 1,000 acres of restored prairie.

Lab News – people



Rae Moss
Head of the Office of
Communication



Pantaleo Raimondi
Director of the Proton
Improvement Plan II
project

Awards

Two Fermilab scientists selected as 2023 APS fellow



Fermilab scientists, Chandrashekhara Bhat and Robert Zwaska, were selected, a distinction awarded each year to no more than one-half of 1% of current APS members by their peers.

New Fermilab videos

Don Lincoln – Demystifying the Heisenberg Uncertainty Principle



1. Wave function tells you location of object, with uncertainty in position Δx .
2. Wave functions can be made out of sines and cosines.
3. Fourier Transforms connect uncertainty in position and uncertainty in the number of waves.
4. Momentum is related to wavelength.





11/07/23

Can we fit the universe in a box?

Wouldn't it be nice to have a computer answer all of the biggest questions in the universe?



10/30/23

Celebrating Dark Matter Day in Latin America

Scientists, artists, communicators and physics fans find creative ways to mark the unofficial holiday devoted to dark matter.



10/26/23

Physics fashion and collider couture

Symmetry is back with more physics-themed Halloween costumes.



10/19/23

New map of space precisely measures nearly 400,000 nearby galaxies

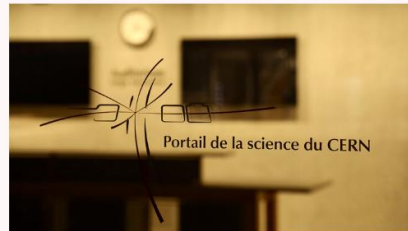
The Siena Galaxy Atlas will be a tool for research into how galaxies form and evolve, gravitational waves, dark matter and the structure of our universe.



10/17/23

Spacetime: All the universe's a stage

In the 1900s, Albert Einstein unified the concepts of space and time, giving us a useful new way to picture the universe.



10/10/23

CERN opens Science Gateway

About 1,400 people attended the grand opening of CERN's new science education center.



09/27/23

Antimatter falls down

Results from the ALPHA experiment confirm that matter and antimatter react to gravity in a similar way.

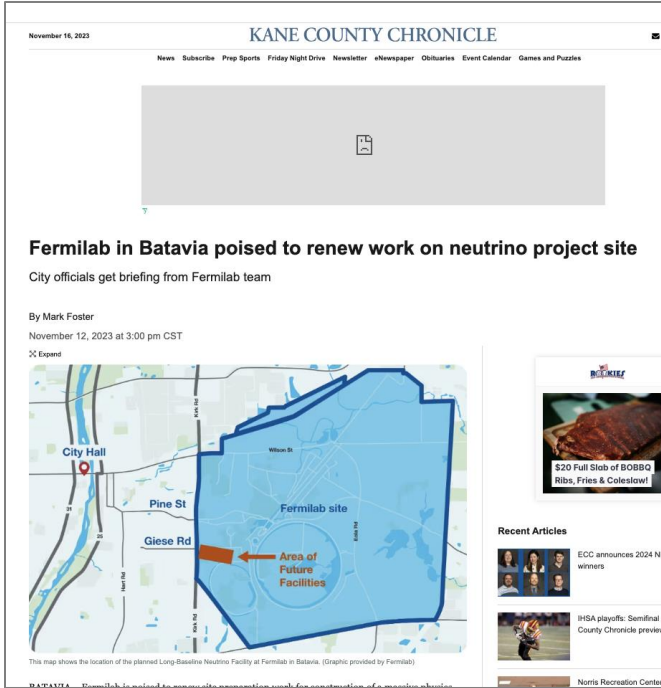


09/26/23

Listening to the radio on the far side of the moon

LuSEE-Night will demonstrate whether an experiment to search for ancient radio signals can survive the moon's unforgiving environment.

Fermilab in the news



What will happen? Why during winter/spring?

- Tree clearing must occur during fall/winter, outside the nesting period for birds and the roosting period for bats
- Moving topsoil in winter, outside bee foraging season

Tasks to be completed in the next 6 months

- Bring in equipment, trailers
- Removal of shrubs, trees on 5 acres (at present: average tree coverage 20%)
- Move soil and do regrading work
- Remove equipment, trailers by end of spring 2024

Office of Communication | CAB meeting

Fermilab in the news

Daily Herald

Suburban Chicago's Information Source

DuPage Monarch Project recognizes outstanding contributions to pollinator conservation



The Fermilab Natural Areas was one of three organizations who were recently recognized for their outstanding contributions to pollinator conservation.

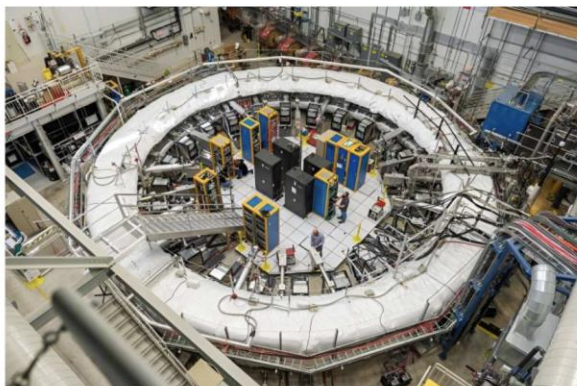
Fermilab in the news – Muon g-2

CHICAGO



Muon g-2 experiment measures the positive muon anomalous magnetic moment to 0.20 ppm

by Ingrid Fadelli, Phys.org



North Central College professor lends a hand to Fermilab in Muon g-2 experiment

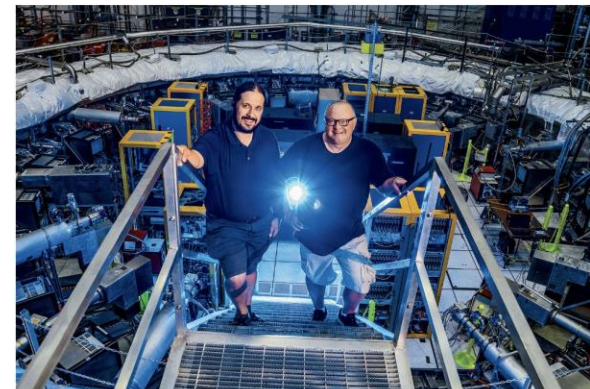
By: Will Payne, NCTV17
Published: October 24, 2023 at 4:50 PM CDT



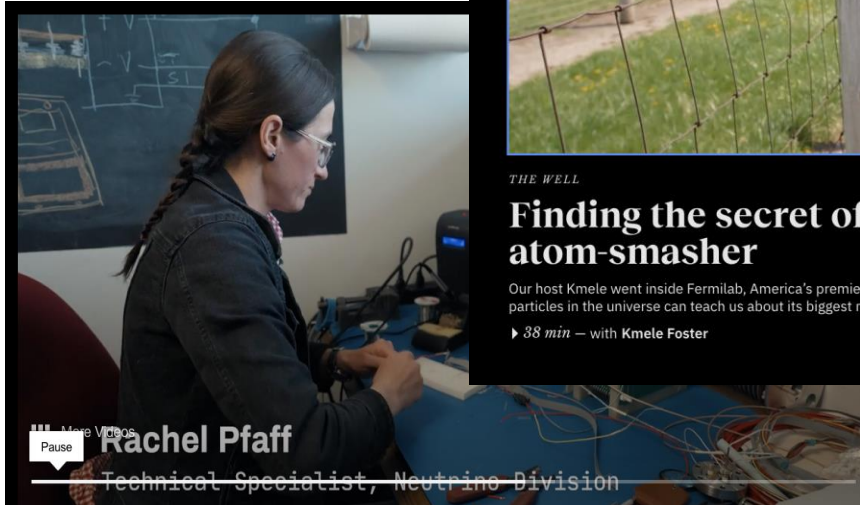
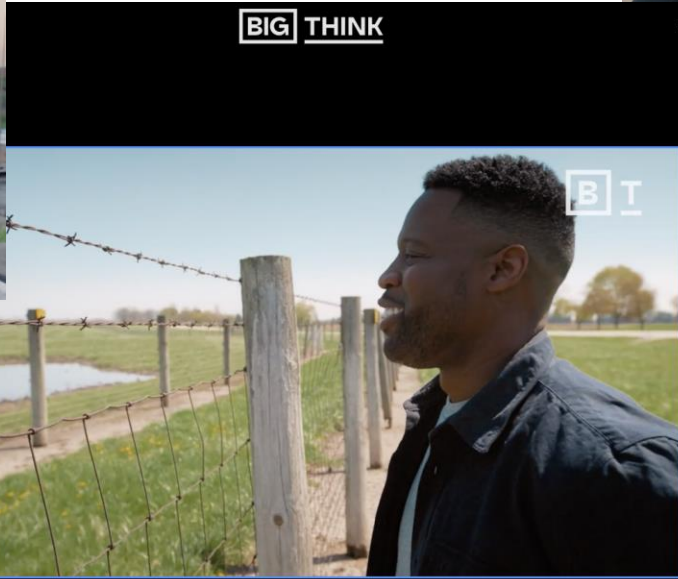
Unlocking the Universe's Secrets

A Fermilab experiment could have major implications for our understanding of physics.

INTERVIEW BY KERRY REED
PHOTOGRAPHY BY LARRY GALANTE
OCTOBER 16, 2023, 9:07 AM



Fermilab in the news



THE WELL

Finding the secret of human existence in an atom-smasher

Our host Kmele went inside Fermilab, America's premiere particle accelerator facility, to find out how the smallest particles in the universe can teach us about its biggest mysteries.

► 38 min — with Kmele Foster



Doğa Kürçüoğlu

Quantum Physics Theorist, SQMS Center

Dispatches from The Well, host Kmele Foster tours the grounds of America's legendary particle accelerator to discover how exploring the mysteries at the heart of particle physics help us better understand some of the most profound mysteries of our universe.

Questions?