



What's new in Fermilab news?

Lauren Biron

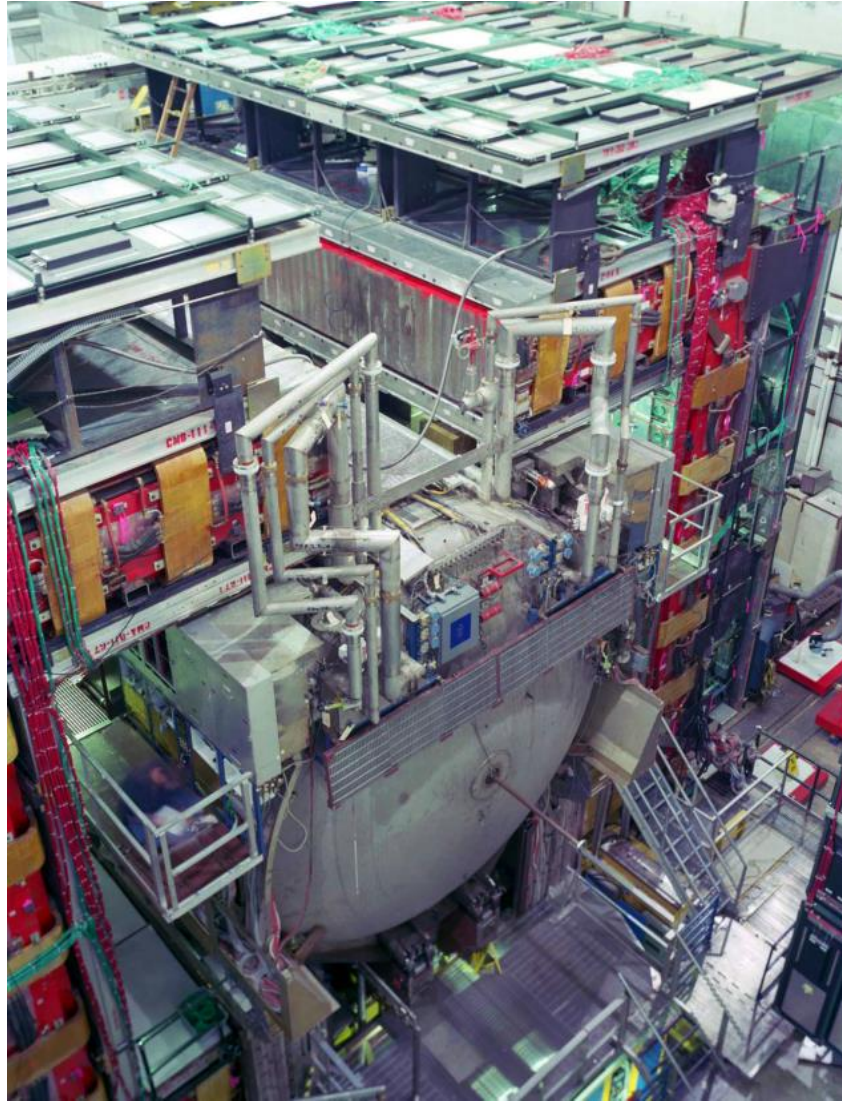
Fermilab Office of Communication

3/25/21

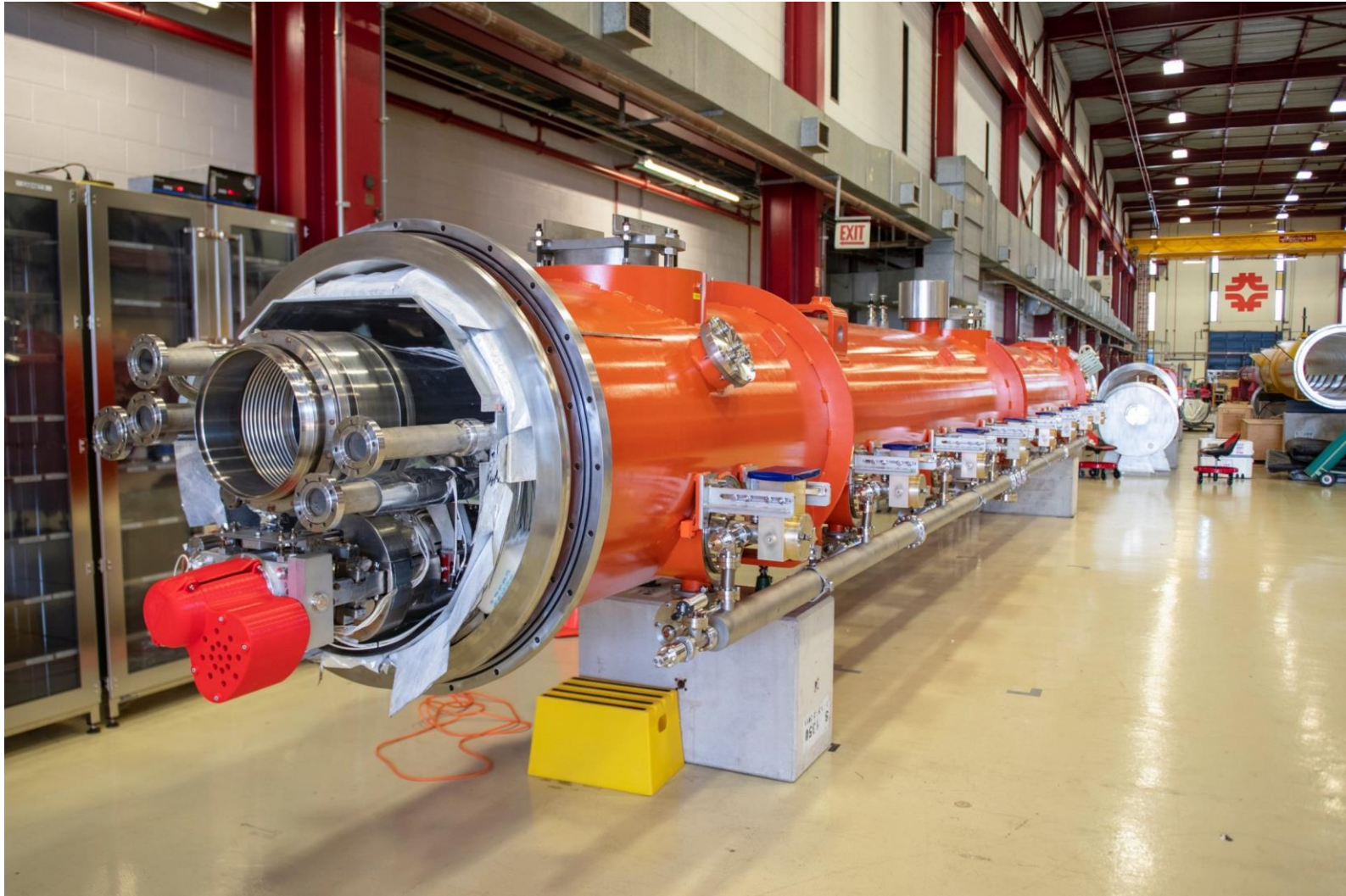
First things first: bison



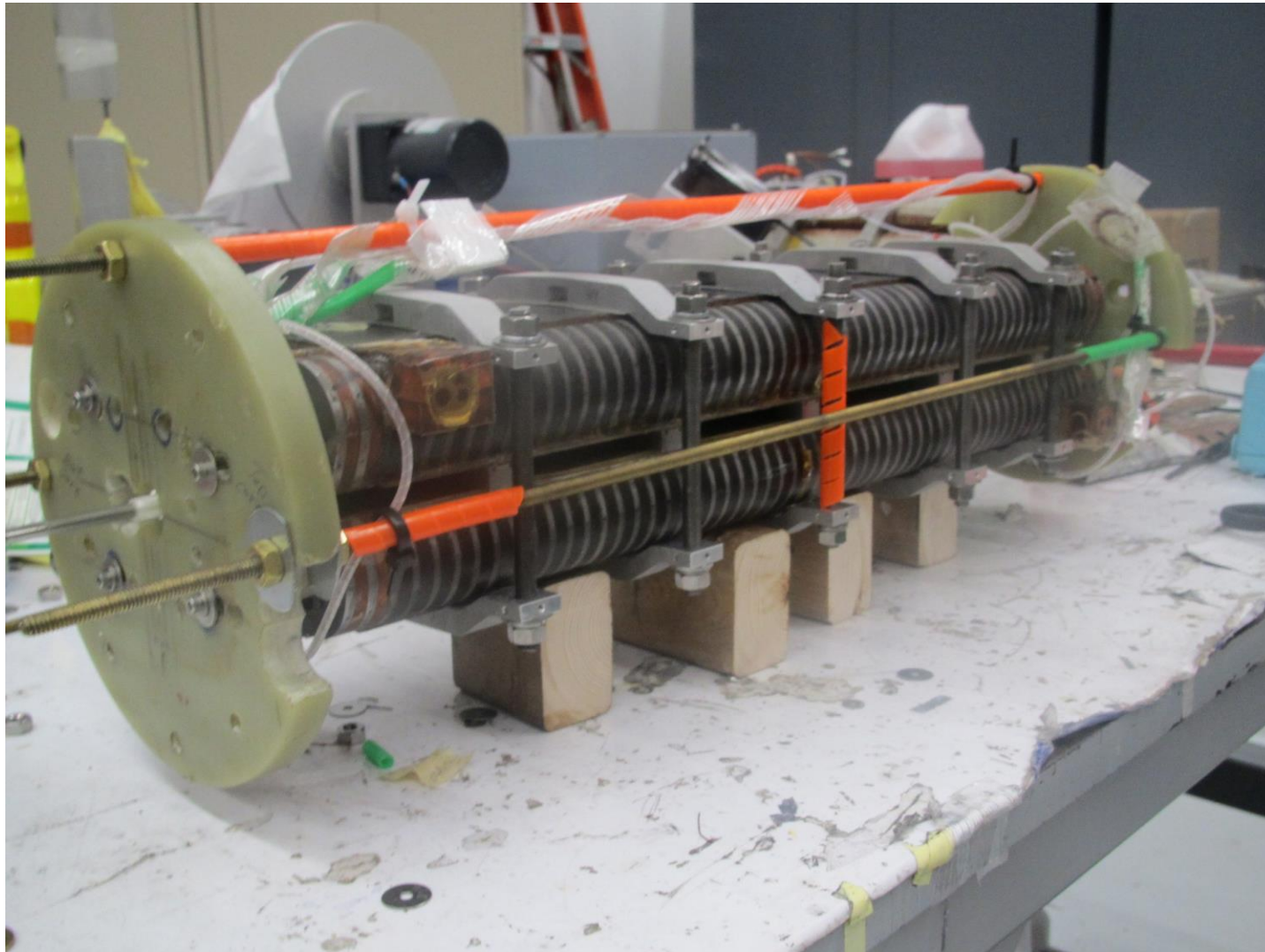
New particle discovered - odderon



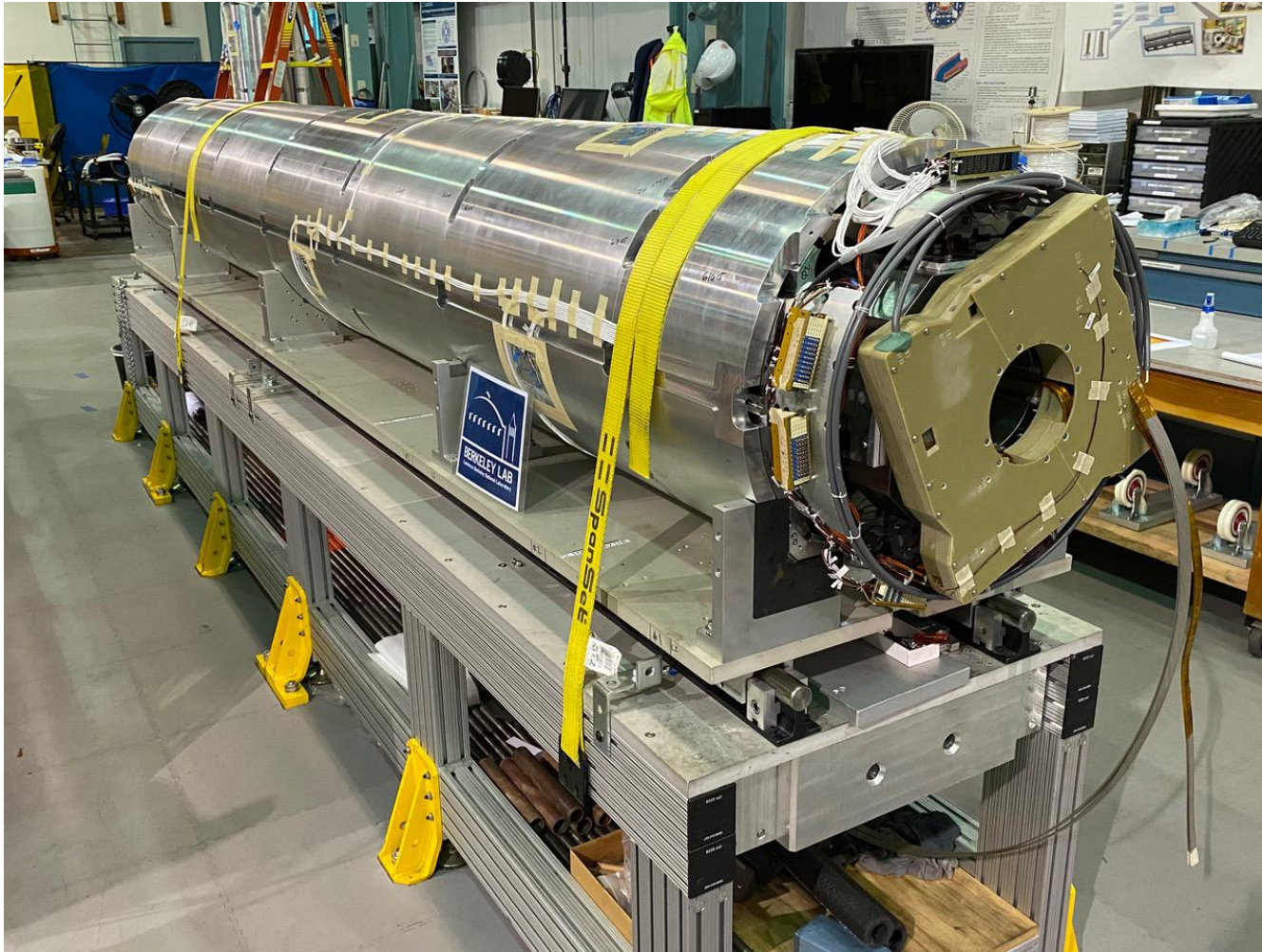
Lasers!



More lasers!



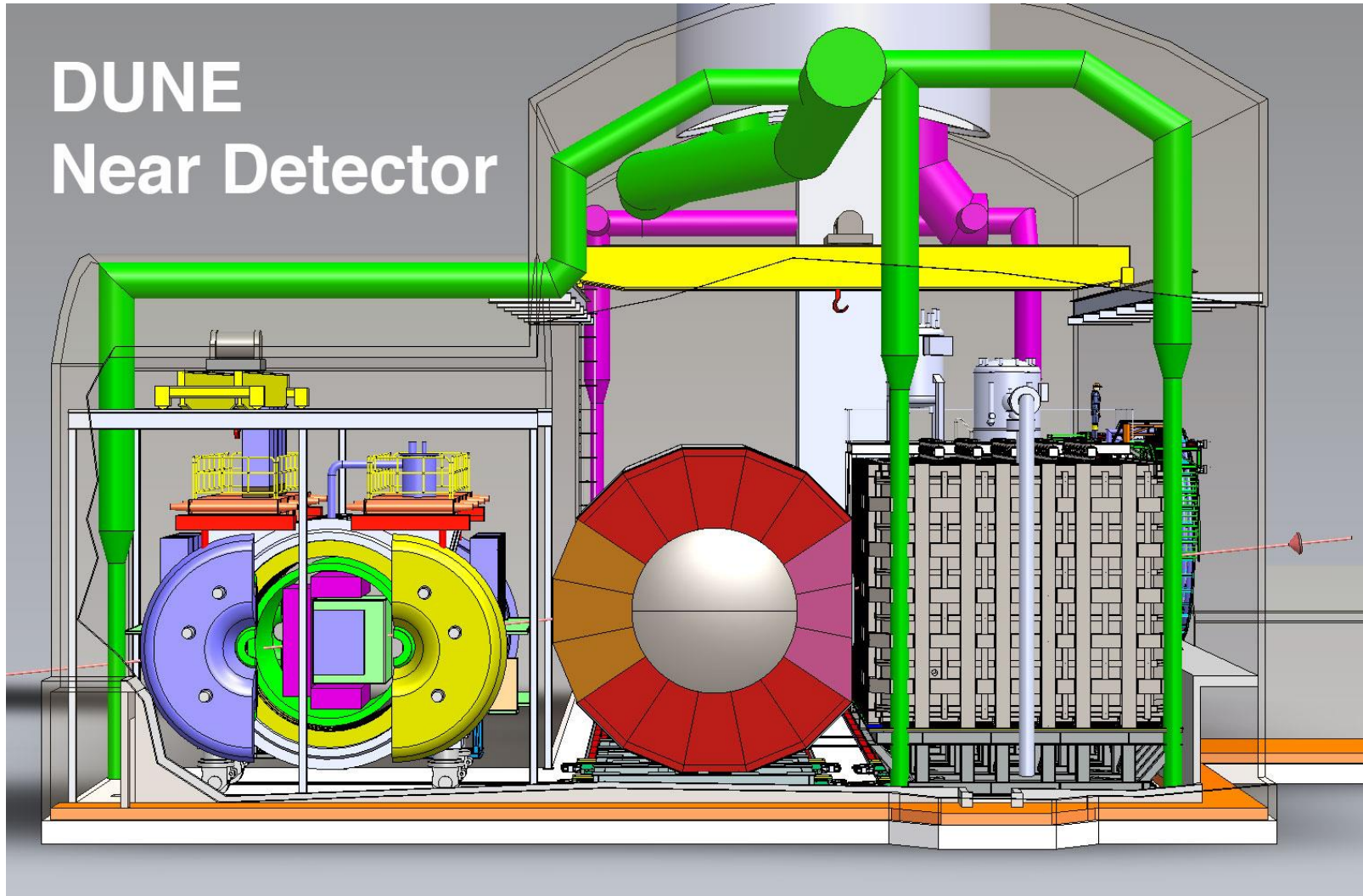
HL-LHC AUP DOE CD-3



PIP-II milestones



Get to know the DUNE near detector



Symmetry



Photo by Reider Hahn, Fermilab

Five DIY physics demos

02/23/21 | By Sarah Charley

Missing visits to the museum? Or in need of some home-school activities? Check out these five do-it-yourself physics demos!



Steven Saffi, Pierre Auger Collaboration

Pierre Auger shares 10% of data

02/15/21 | By Kathryn Jepsen

The observatory has made detailed information about an initial selection of its recorded cosmic-ray events available for outside scientists to use.

ENG | ESP | POR



Illustration by Sandbox Studio, Chicago with Pedro Rivas

New strategy for Latin American physics

02/16/21 | By Amanda Soliday

Scientists in Latin America recently published the first coordinated plan for the region's research in high-energy physics, astrophysics and cosmology.



Illustration by Sandbox Studio, Chicago with Corinne Mucha

Dear Labby: Life advice from physics

02/09/21 | By Sarah Charley

Particle physics might be complex, but it's nothing compared to the confusion of human existence.



Illustration by Sandbox Studio, Chicago with Ariel Davis

What is luminosity?

02/02/21 | By Sarah Charley

Later this decade, the Large Hadron Collider will be upgraded to the High-Luminosity LHC. What does "luminosity" mean in particle physics?



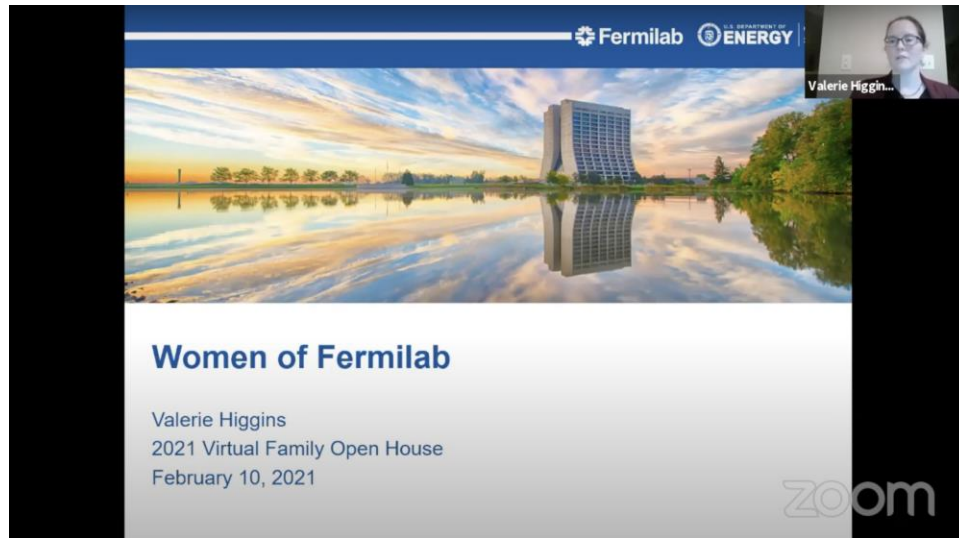
Illustration by Sandbox Studio, Chicago with Corinne Mucha

Six fabulous facts about the Standard Model

03/16/21 | By Sarah Charley

Learn about the Standard Model of particle physics and how physicists use it to predict the (subatomic) future.

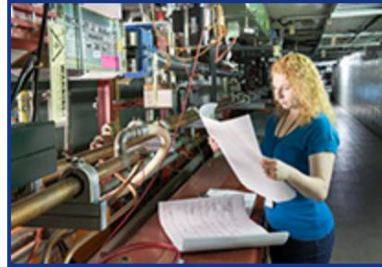
International Day of Women and Girls in STEM



Virtual Open House was real fun



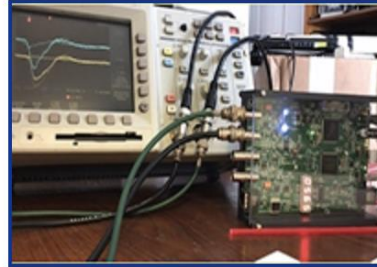
Science at Fermilab
(10:00 AM)



Classroom Visit:
Mechanical Engineer

Priority registration for teachers

(11:00 AM)



Cosmic Ray Lab
(1:00 PM)



Classroom Visit:
Scale of the Universe

Priority registration for teachers

(2:00 PM)



Fermilab's Bird Monitoring:
Guiding Stewardship of the Land

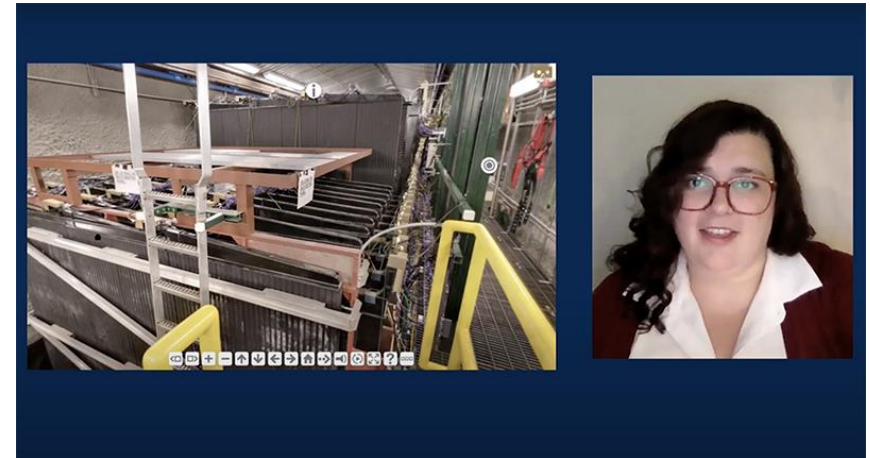
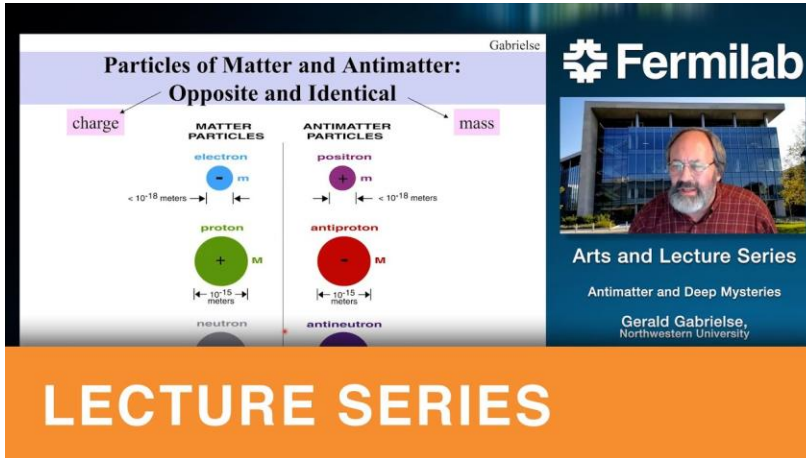
(4:30 PM)



International Women in Science:
Women of Fermilab

(7:30 PM)

Fermilab YouTube surpasses 500,000 subscribers



Peeps



In the News

GIZMODO



Physicists Discover the Elusive Odderon, First Predicted 50 Years Ago



Rose Pastore
Friday 12:35PM

29

1

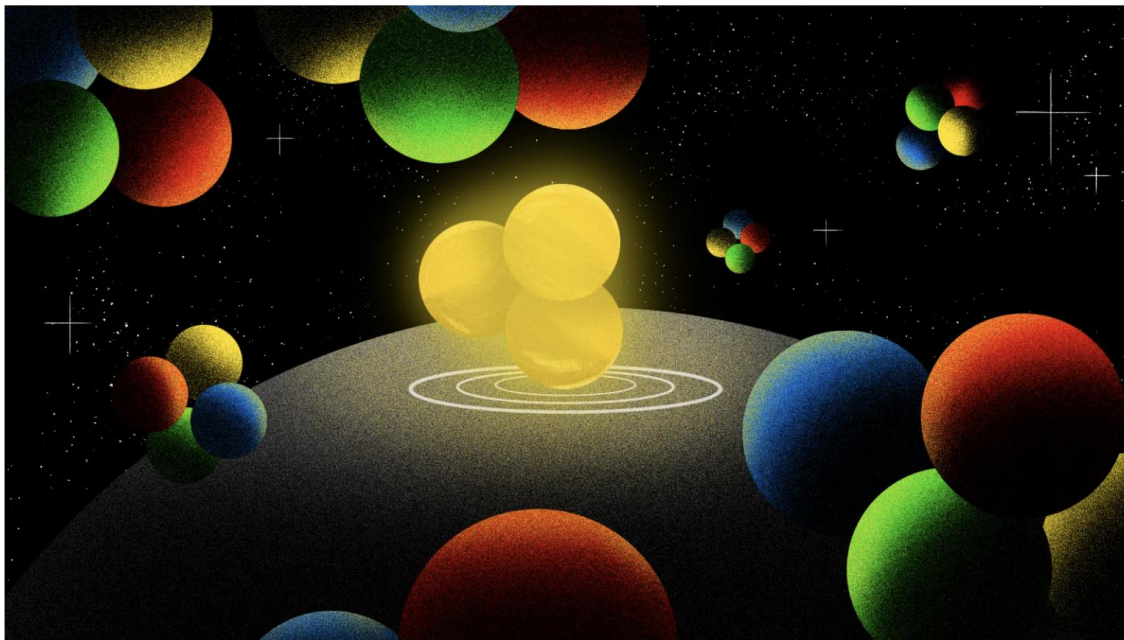


Illustration: Benjamin Currie/Gizmodo

In the News

physicsworld

MENU

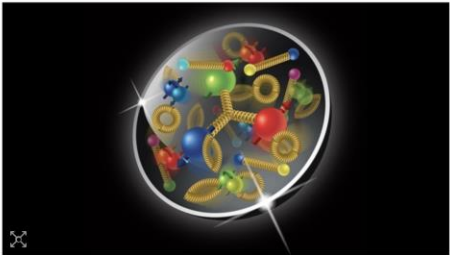
Q

particles and interactions

PARTICLES AND INTERACTIONS | RESEARCH UPDATE

Proton contains more anti-down quarks than anti-up

16 Mar 2021



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Q

QUANTUM PHYSICS

Decades-Long Quest Reveals Details of the Proton's Inner Antimatter

27

Twenty years ago, physicists set out to investigate a mysterious asymmetry in the proton's interior. Their results, published today, show how antimatter helps stabilize every atom's core.



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NEWS AND VIEWS · 24 FEBRUARY 2021

Antimatter in the proton is more down than up

Protons are found in all atoms, so it might be surprising to learn that they contain antimatter. It now emerges that there is an imbalance in the types of antimatter in the proton – a finding for which there is no agreed theoretical explanation.

Haiyan Gao

ScienceNews

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NEWS PARTICLE PHYSICS

Protons' antimatter is even more lopsided than we thought

In the sloshing sea of particles within a proton, down antiquarks outnumber up antiquarks



In the News

CBS Chicago NEWS WEATHER SPORTS VIDEO BEST OF MORE

'Mission Unstoppable' On CBS Encouraging Girls In STEM

Program: CBS 2 News Morning Categories: News, WBBMTV



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LA NAZIONE PISA

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Home > Pisa > Cronaca > Università, La Scienza Anna...


Università, la scienziata Anna Grassellino inaugura la didattica del secondo semestre

Publicato il 8 marzo 2021

Laureata in Ingegneria elettronica a Pisa, oggi Anna Grassellino dirige il "Superconducting Quantum Materials and Systems Center" a Chicago

f t w e

POTREBBE INTERESSARTI ANCHE



CRONACA
Coronavirus Italia: contagi Covid di oggi. Bollettino e dati dalle regioni del 22 marzo

Riduzione della letalità grazie ai vaccini

io DONNA CORRIERE DELLA SERA

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5 FEBBRAIO 2021 • COSTUME E SOCIETÀ

La scienziata italiana Anna Grassellino: «Il segreto della scienza è nella creatività femminile»

La scienziata italiana Anna Grassellino è stata scelta per guidare a Chicago il team che realizzerà il computer quantistico: una macchina rivoluzionaria che porterà a una nuova era della ricerca. «Spero che la mia storia sia un esempio per le ragazze, perché il progresso ha bisogno del talento e delle doti delle donne»

di PAOLA CENTOMO

In the News

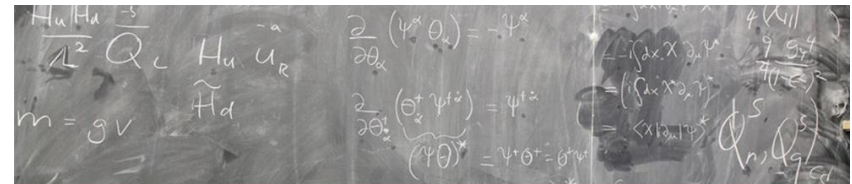
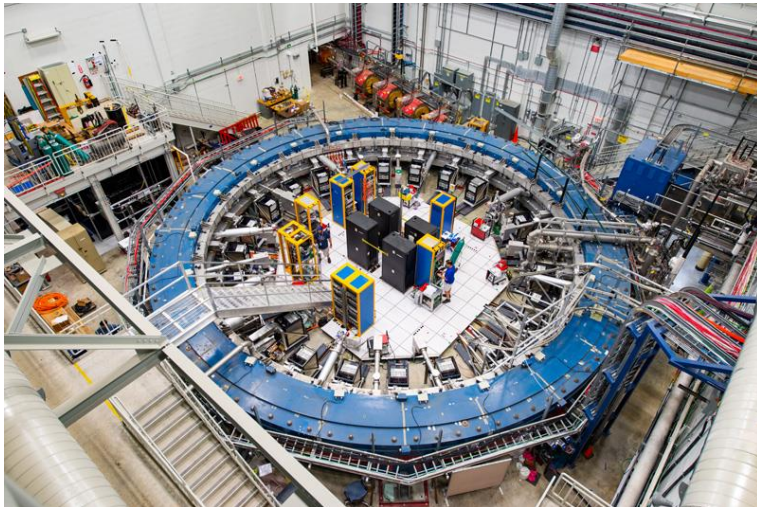


South Dakota's DUNE Project — Kiewit-Alberici Preps Former Goldmine for Science Experiment

TUE MARCH 16, 2021 - MIDWEST EDITION #6
GILES LAMBERTSON — CEG CORRESPONDENT



Coming soon!



Theoretical Physics Department



First results from the Muon g-2 experiment at Fermilab

April 7, 2021, 10:00 am US/Central

The first results from the [Muon g-2](#) experiment at Fermilab will be unveiled and discussed in a special seminar to be held Wednesday, April 7, 2021, at 10:00 AM US Central Time.

The Muon g-2 experiment searches for telltale signs of new particles and forces by examining the muon's interaction with a surrounding magnetic field. By precisely determining the magnetic moment of the muon and comparing with similarly exact theoretical predictions, the experiment is sensitive to new physics lurking in the subatomic quantum fluctuations surrounding the muon. A previous experiment performed two decades ago at Brookhaven National Laboratory revealed an intriguing hint of such physics. The highly anticipated result from Fermilab pushes the precision of the experiment into uncharted territory in the quest to confirm or refute that finding.

The experimental result will be presented by Chris Polly, Fermilab physicist

Questions?

