



# What is in the news at Fermilab?

Office of Communications

Tracy Marc, media relations manager

May 27, 2021

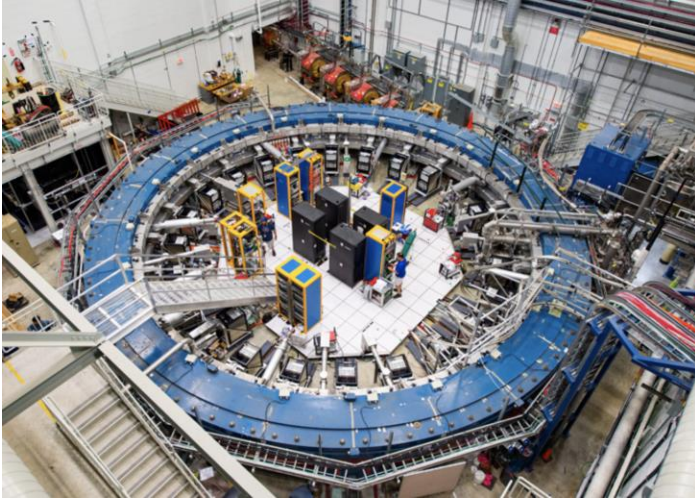


# Spring at Fermilab





# New experiment result – Muon (meew-on) g-2



## The Muon g-2 experiment in numbers

- 20 years in the making
- 3,200 miles the magnetic ring traveled
- 50-foot-diameter superconducting magnetic storage ring
- 200 scientists
- 35 collaborating institutions
- 7 countries
- 8 billion muons were analyzed
- News coverage on 6 continents

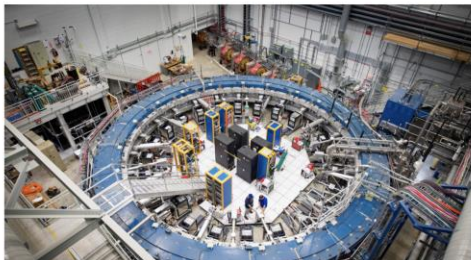
# Muon g-2 makes worldwide news

The New York Times

## Lesson of the Day: 'A Tiny Particle's Wobble Could Upend the Known Laws of Physics'

In this lesson, students will learn about muons and why scientists are carefully tracking how they spin inside a magnetic field. Are physicists on the verge of discovering new subatomic particles?

f i t v p 3



## The Muon Wobble

### by Daniel Kelly



BBC Sign in

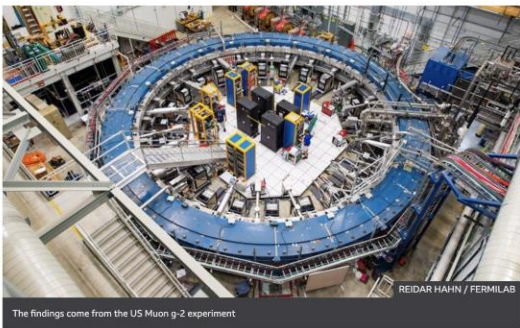
## NEWS

Home Coronavirus Video World

## Muons: 'Strong' evidence found for a new force of nature

By Pallab Ghosh  
Science correspondent

7 April



REIDAR HAHN / FERMILAB

The findings come from the US Muon g-2 experiment

PBS



### MUON G-2 EXPERIMENT





# DUNE construction

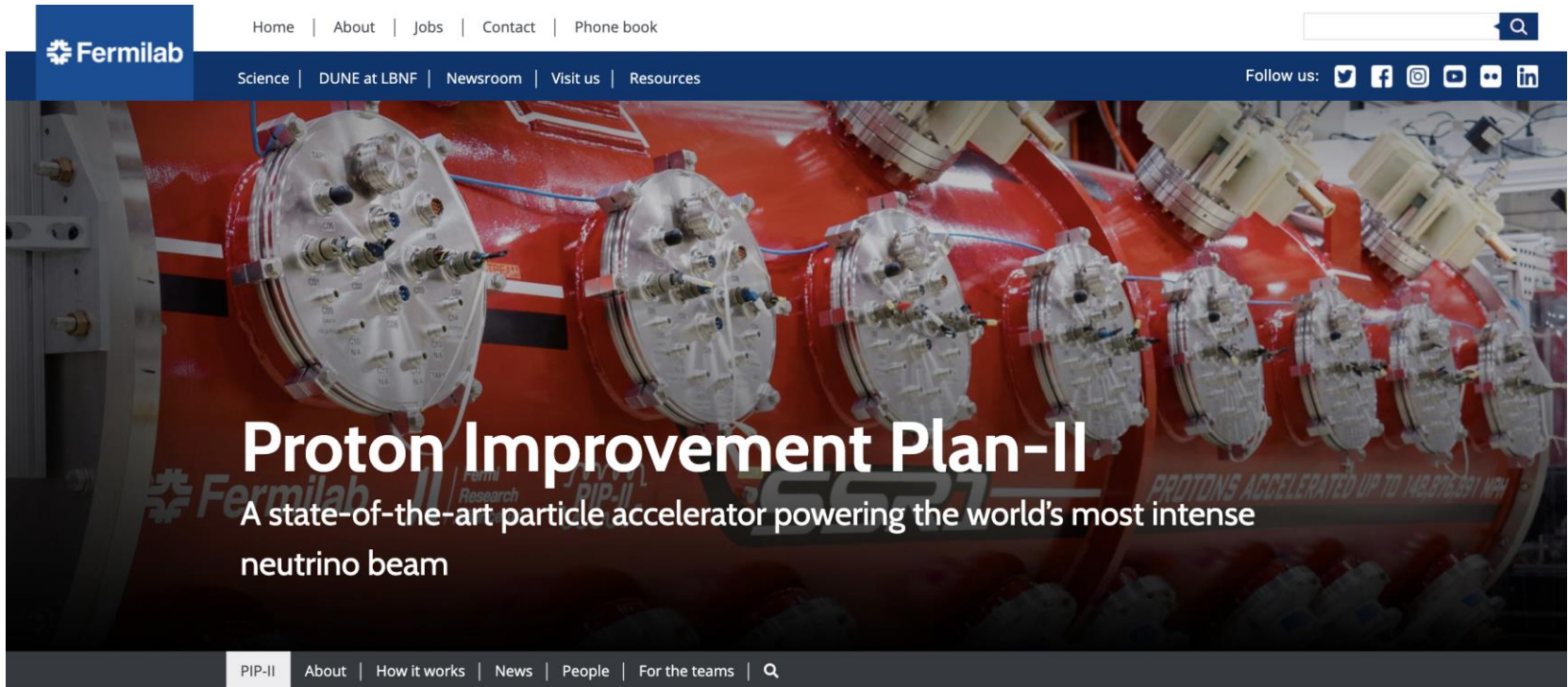




# Dark Energy Survey



# PIP-II new website



## World-record beam to power decades of discovery

The Proton Improvement Plan II, or PIP-II, is an essential enhancement to the Fermilab accelerator complex, powering the world's most intense high-energy neutrino beam on its journey from Illinois to the Deep Underground Neutrino Experiment in South Dakota – a distance of 1,300 kilometers (800 miles). DUNE scientists will use neutrinos to answer some of the most profound questions about our