New stories in Sym











The other physics problem

What's new for LHC Run 3?

Black physicists say efforts to recruit and retain more Black students must concentrate on challenges they face at both Historically Black Colleges and Universities and Primarily White Institutions.

Think like a computer

A pilot program, designed in part by educators at Sanford Underground Research Facility, is introducing computational thinking into elementary school 05/03/22

Can a theory ever die?

Neglected theories will wilt and wither but can bloom again with enough

04/26/22

Double trouble Higgs

Scientists worried Higgs pairs would be too rare for LHC experiments to find. But by using machine learning, they now are getting tantalizingly close.



CERN's accelerators and the LHC's detectors have undergone major upgrades

that will allow scientists to collect more data in the upcoming run than they did

Hitoshi Murayama brings people togethe

Building international research communities is a cornerstone of Murayama's physics career



How to make a muon bean

For the Muon g-2 experiment, researchers create billions of muons to study their surprising properties.



Where do theories come from?

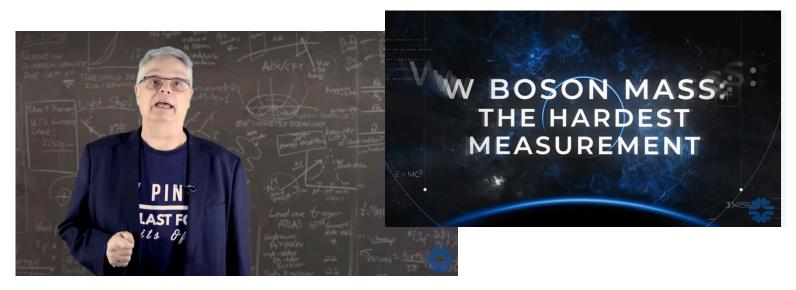
The catalysts for inspiration are hard work and innumerable connections with a wider scientific community.

Recent issues:

- What's up with the W boson mass?
- The other physics problem
- Think like a computer
- Can a theory ever die?
- Double trouble Higgs
- What's new for LHC Run 3?
- Hitoshi Murayama brings people together
- How to make a muon beam



New Fermilab videos on YouTube













FERSONALITIES | NEWS

Lia Merminga becomes first woman to head Fermi National Accelerator Laboratory

06 Apr 2022

Taking the helm: Lia Merminga will become the seventh director of Fermilab when she takes up the position on 18 April. (Courtesy: Allan Johnson, Fermilab)



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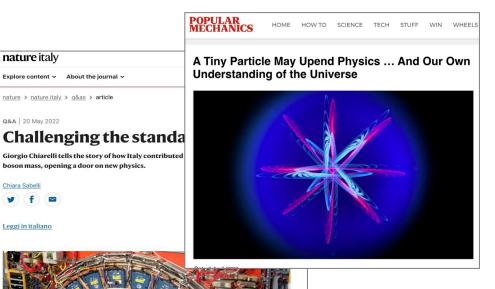


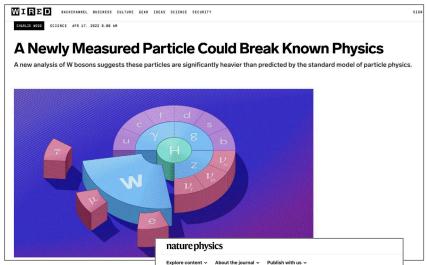
Fermilab welcomes new baby bison as first sign of spring



Fermilab welcomes new baby bison as first sign of spring







nature > nature physics > news & views > article News & Views | Published: 13 May 2022 PARTICLE PHYSICS Watch out for the W Stefanie Reichert

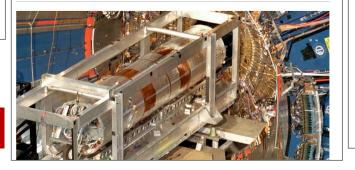
Nature Physics 18, 486 (2022) | Cite this article 254 Accesses | Metrics

Shock result in particle experiment

в в с

NEWS

could spark physics revolution By Pallab Ghosh



The 1960s saw the development of the theory of the unified weak and electromagnetic interaction, predicting the existence of two massive gauge bosons - the W and Z bosons - in addition to the massless photon. The resulting excitement of the long search for the W and Z bosons extended far beyond the scientific community. During her time as Prime Minister of the United Kingdom, Margaret Thatcher was the first person outside of CERN to be informed about the imminent discovery of the W boson. And in 1983, the news was shared with the





The Office of Communications

collider from 1985 to 2011. About 400 scientists at 54 institutions across 23 countries are still analyzing

the wealth of data collected by the experiment. Photo: Fermilab.

nature italy

Q&A 20 May 2022

Chiara Sabelli

Leggi in italiano

