

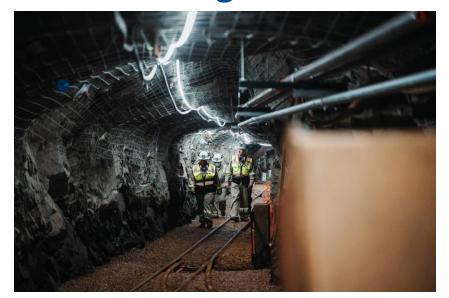




What's new at Fermilab?

Office of Communications Tracy Marc, media relations manager July 28, 2022

Lia Merminga hosts Dr. Berhe











Fermilab Director Congressional Testimony



Photo credit: House Science Committee Majority

Lia Merminga testified before the U.S. House of Representatives Committee on Science, Space, & Technology in a session titled "Investigating the Nature of Matter, Energy, Space and Time" on behalf of the HEP community.

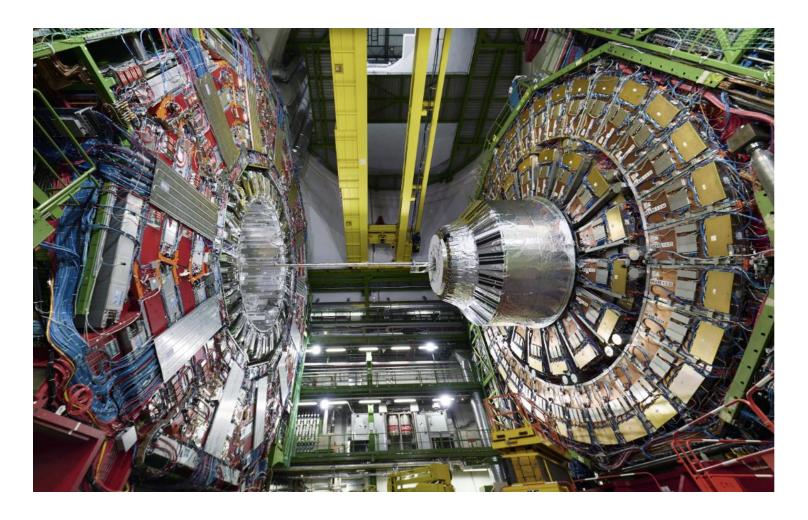


Rep. Sean Casten visit





Celebrating 10 years after the Higgs Boson discovery





Quantum – Argonne and Fermilab collaboration





Superconducting Quantum Materials and Systems Center



MRI technicians performing an MRI scan on a patient. Photo: NYU Langone

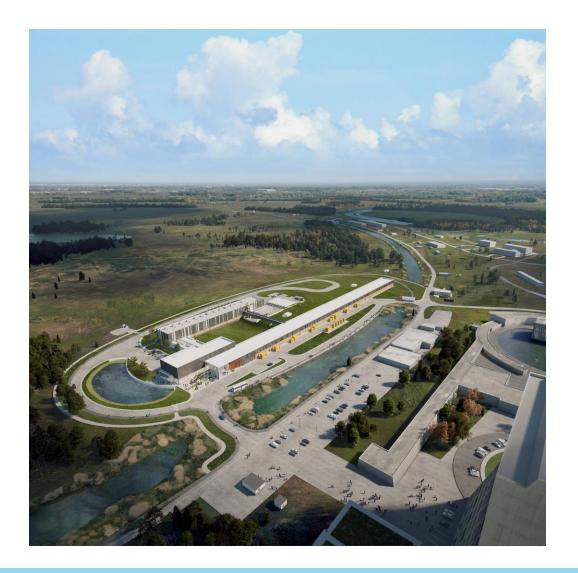


PIP-II Update – Transportation Test Frame





PIP-II Update – Cryogenic Plant

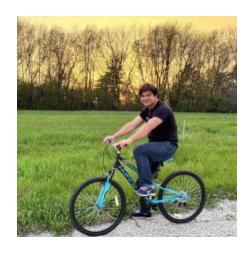




The People of Fermilab





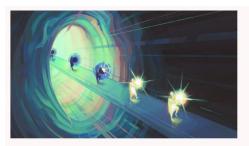






New stories in Sym







A handful of physicists have prepared the detector for a more sophisticated dark matter search.



07/12/25

Final Snowmass meeting to be held next week

The workshop is the culmination of a two-year process to provide a scientific vision and detailed proposals to the planning process for the future of US particle physics.



07/06/23

10 years later, Higgs boson discoverers publish refined

In new papers by the CMS and ATLAS collaborations, physicists detail high-precision results from Higgs boson studies—but no new physics (yet).



07/05/2

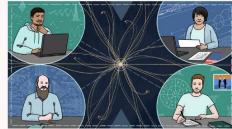
Wait, didn't the LHC already "restart?"

Today marks the start of LHC Run 3. So what was #restartingLHC in









Recent issues include the following:

- Ximena Cid's physics journey.
- LHCb ramps up the search for dark photons
- The final week of Snowmass 2022
- Higgs boson 10 years later
- LHC restart





New Fermilab videos on YouTube







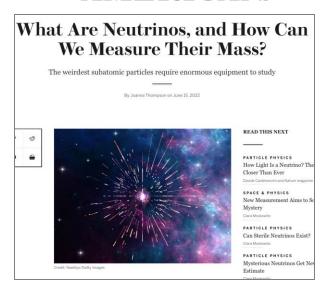




୬₺ NEWS



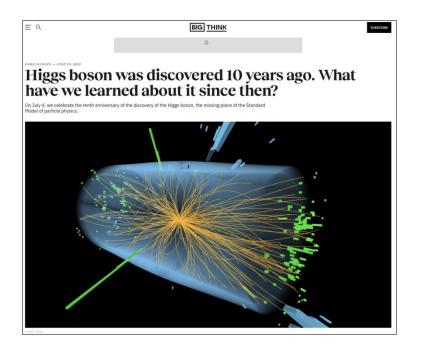
SCIENTIFIC AMERICAN.



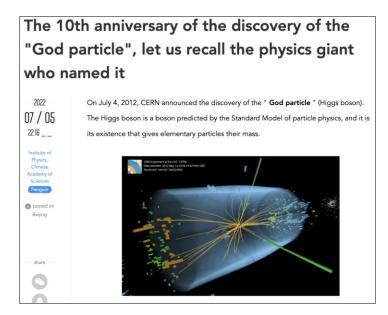
Neutrinos: The "ghostly chameleons" of particle physics become even more mysterious















PHYSICS TODAY RESOURCES* BROWSE* Home > July 2022 (Volume 75, Issue 7) > Page 46, doi:10.1063/PT.3.5040 Building a ship in a bottle for neutrino science In a former gold mine in South Dakota, an international particle-physics experiment will delve into the unexplained matter-antimatter imbalance that gave rise to the universe. Anne Heavey is a senior technical editor at the Fermi National Accelerator Laboratory in COMMENTS f in 6 M TOOLS Physics Today 75, 7, 46 (2022); https://doi.org/10.1063/PT.3.5040

The Deep Underground Neutrino Experiment (DUNE) will be the world's largest cryogenic

particle detector. Its aim is to study the most elusive of particles: neutrinos. Teams from

around the world are developing and constructing dete

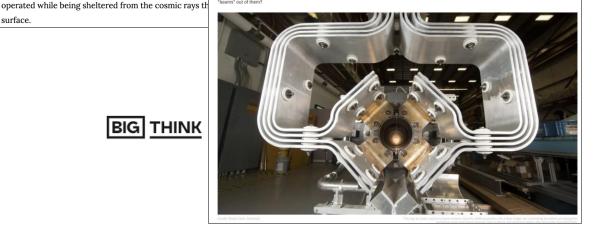
the Sanford Underground Research Facility, commonly

South Dakota. There the detector components will be

underground through a narrow shaft to the caverns, w

surface.

Ask Ethan: How can physicists make neutrino beams?



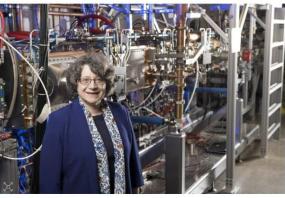
physicsworld

PROJECTS AND FACILITIES | FEATURE

Lia Merminga: directing the future of Fermilab

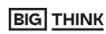
Taken from the July 2022 issue of Physics World. Members of the Institute of Physics can enjoy the full

Lia Merminga has just become the seventh director of the Fermi National Accelerator Laboratory in the US. She talks to Laura Hiscott about accelerator science, the future of

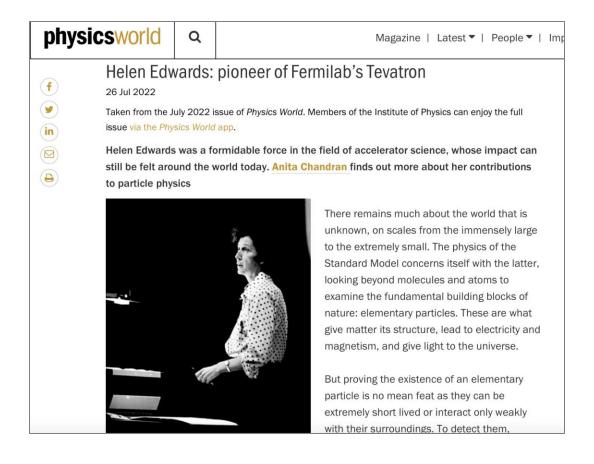


(Courtesy: Lynn Johnson Fermilah)

ia Merminga has just taken up a major mantle in the scientific world. In April, the renowned sicist took over as director of the Fermi National Accelerator Laboratory of the most iconic particle-physics research centres in the world. Reaching monumental achievement, and Merminga reflects on the path that led her to ead of the institute where her journey in accelerator physics first began









Questions?