

November 18, 2021 CAB meeting links to Fermilab News

[Fermilab Newsroom](#)

Videos

Don Lincoln

Where did the Big Bang happen?

<https://www.youtube.com/watch?v=A0FZgCiJGrg>

Even Bananas

The road to DUNE

To study the smallest things in nature, scientists build some enormous experiments. One example? The Deep Underground Neutrino Experiment (DUNE), which will use mile-deep detectors, each one as long as a jumbo jet, filled with almost 70,000 total tons of liquid argon

<https://www.youtube.com/watch?v=Hf8oti8vHmo>

Even Bananas

How do we study neutrino oscillation?

This episode of [#EvenBananas](#), neutrino physicist Dr. Kirsty Duffy and special guest Dr. Anne Norrick will explore how to build a long-distance neutrino experiment.

https://www.youtube.com/watch?v=X_MK0iAQC3o

Even Bananas

Do sterile neutrinos exist?

Two physicists discuss the possible existence of "sterile neutrinos," a theorized fourth kind of neutrino. If sterile neutrinos exist, it would be a radical discovery, adding a new building block to the Standard Model of Particle Physics.

<https://www.youtube.com/watch?v=NMrSel7qpUg>

Fermilab Director Lockyer awarded the DOE's Distinguished Career Service Award

https://news.fnal.gov/2021/11/fermilab-director-lockyer-awarded-the-does-distinguished-career-service-award/?utm_source=newsletter&utm_medium=email&utm_campaign=ft-211109

Symmetry

Catherine Heymans shines as Astronomer Royal for Scotland

https://www.symmetrymagazine.org/article/catherine-heyman-shines-as-astronomer-royal-for-scotland?utm_source=newsletter&utm_medium=email&utm_campaign=ft-211117

Eyes on the sky

https://www.symmetrymagazine.org/article/eyes-on-the-sky?utm_source=newsletter&utm_medium=email&utm_campaign=ft-211020

How to train your magnet

New accelerator magnets are undergoing a rigorous training program to prepare them for the extreme conditions inside the upgraded Large Hadron Collider.

https://www.symmetrymagazine.org/article/how-to-train-your-magnet?utm_source=newsletter&utm_medium=email&utm_campaign=ft-211007

The coevolution of particle physics and computing

https://www.symmetrymagazine.org/article/the-coevolution-of-particle-physics-and-computing?utm_source=main_feed_click&utm_medium=rss&utm_campaign=main_feed&utm_content=click

News

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Fermilab sees record performance from next-generation accelerator component

First tests of a prototype built at Fermi National Accelerator Laboratory show the effort has paid off, [with a new component setting records](#).

https://news.fnal.gov/2021/11/fermilab-sees-record-performance-from-next-generation-accelerator-component/?utm_source=newsletter&utm_medium=email&utm_campaign=ft-211104

Building a cross-border dark matter experiment deep underground — during a pandemic

https://news.fnal.gov/2021/10/building-a-cross-border-dark-matter-experiment-deep-underground-during-a-pandemic/?utm_source=newsletter&utm_medium=email&utm_campaign=ft-211015

Coffee delivers a taste of community for Fermilab's Society of Hispanic Professional Engineers

<https://news.fnal.gov/2021/10/coffee-delivers-a-taste-of-community-for-fermilabs-society-of-hispanic-professional-engineers/>

Fermilab to welcome 5 DOE Graduate Student Research Awardees this fall

https://news.fnal.gov/2021/10/fermilab-to-welcome-5-doe-graduate-student-research-fellows-this-fall/?utm_source=newsletter&utm_medium=email&utm_campaign=ft-211005

DUNE/People

A new deputy project director for the LBNF/DUNE-US project

In her new role on the LBNF/DUNE-US project, Mary Convery will oversee the completion of the far site conventional facilities and the near site primary and neutrino beamlines and supporting conventional facilities.

https://news.fnal.gov/2021/09/a-new-deputy-project-director-for-the-lbnf-dune-us-project/?utm_source=newsletter&utm_medium=email&utm_campaign=ft-210930

New results from NOvA experiment shed more light on neutrinos' identity-changing behavior
https://news.fnal.gov/2021/09/new-results-from-nova-experiment-shed-more-light-on-neutrinos-identity-changing-behavior/?utm_source=newsletter&utm_medium=email&utm_campaign=ft-210930

Scientists assemble final detector of Fermilab's Short-Baseline Neutrino Program
https://news.fnal.gov/2021/09/scientists-assemble-final-detector-of-fermilabs-short-baseline-neutrino-program/?utm_source=newsletter&utm_medium=email&utm_campaign=ft-211001

People

Mark Jeffers appointed head of the Facilities Engineering Service Section
https://news.fnal.gov/2021/11/message-from-acting-chief-operating-officer-martha-michels-organizational-announcement/?utm_source=newsletter&utm_medium=email&utm_campaign=ft-211111

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https://news.fnal.gov/2021/11/fermilab-director-lockyer-awarded-the-does-distinguished-career-service-award/?utm_source=newsletter&utm_medium=email&utm_campaign=ft-211109

Two Fermilab scientists named American Physical Society fellows
<https://news.fnal.gov/2021/10/two-fermilab-scientists-named-american-physical-society-fellows/>

Fermilab scientists receive American Physical Society honors
https://news.fnal.gov/2021/10/fermilab-scientists-receive-american-physical-society-honors/?utm_source=newsletter&utm_medium=email&utm_campaign=ft-211020

Pushpa Bhat receives distinguished scientist distinction
https://news.fnal.gov/2021/11/pushpa-bhat-receives-distinguished-scientist-distinction/?utm_source=newsletter&utm_medium=email&utm_campaign=ft-211102

