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## FEATURE

## Recovery Act funding fuels Fermilab projects

Fermilab has created a new Web site to provide citizens with clear and accurate information about how Fermilab is using funding from the American Recovery and Reinvestment Act. Read more to find out about the immediate benefits for our neighbors and our nation.

[Fermilab and the American Recovery and Reinvestment Act](#)

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Nov. 20, 2009

- [Recreation classes, events and discounts for December](#)
- [Recovery Act Feature: Work continues on Feynman Computing Center upgrades](#)
- [Photo of the Day: DUSAF pond at sunrise](#)
- [From Times Online, Nov. 19, 2009: LHC to be started up after fault forced year-long closure](#)
- [From Lawrence Berkeley National Laboratory, Nov. 19, 2009: UC appoints Paul Alivisatos director of Berkeley Lab](#)

## Recovery Act Funding

*Fermilab Today*—November 13, 2009  
**[Wire contracts placed for high-field magnet project](#)**  
 Fermilab has placed contracts for the first orders of a superconducting wire scientists hope to use in the next generation of high-performance magnets.  
[Read full column](#)



Spools of BSSCO-2212 wire

*Fermilab Today*—November 4, 2009  
**[NOvA gets full construction approval](#)**  
 NOvA experiment collaborators have more to celebrate this holiday season.  
[Read full column](#)



Future site of the NOvA detector

*Fermilab Today*—October 30, 2009  
**[Roll out the wavelength shifter barrel](#)**  
 The first batches of two powdered chemicals, dubbed wavelength shifters, for the future NOvA neutrino project arrived by the barrel at Fermilab recently.  
[Read full column](#)



barrels of the chemical powders

[Read more](#) about Fermilab and the Recovery Act

October 2009

- [Grad students follow the data](#)
- [Cleaner Living Through Electrons](#)
- [Day in the Life: LabFest](#)
- [Accelerator Applications: Shrink Wrap](#)
- [Logbook: Antiproton Discovery](#)
- [60 Seconds: Intensity Frontier](#)
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- [symmetrybreaking — Read our blog](#)



## Large Hadron Collider

The U.S. has contributed \$531 million to the construction of the Large Hadron Collider, the world's largest particle collider, located in Europe. From the LHC Remote Operations Center at Fermilab, U.S. scientists will participate in the startup of the machine.



More than 900 scientists from the U.S. work on the CMS experiment at the LHC. Sifting through proton-proton collisions,



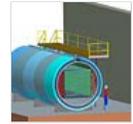
## For Our Neighbors & Visitors

- [Visiting Fermilab](#)
- [Public Events](#)
- [Science in the Neighborhood](#)
- [ILC Citizens' Task Force report](#)
- [NOvA Environmental Assessment](#)
- [Update on low levels of tritium at Fermilab](#)

## Science at Fermilab

### MicroBooNE receives CD-0

Fermilab has moved a step closer to constructing a new neutrino experiment. The Department of Energy has given Critical Decision-0 approval to a new booster neutrino experiment called MicroBooNE.



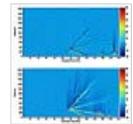
### Building a Dark Energy Camera

Scientists wonder why the universe is expanding ever faster. What mysterious force is at work? By recording the light from hundreds of millions of galaxies, they hope to find out what's going on.



### ArgoNeuT experiment sees first neutrino interactions

An experiment that could help revamp the Intensity Frontier recently took a big step forward. ArgoNeuT recorded its first neutrino interactions, the first ever seen in a liquid-argon detector in the United States.



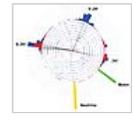
### Cosmic rays could be iron nuclei

Data recorded by the Pierre Auger Observatory raises the possibility that the highest-energy cosmic rays - super-speedy cosmic bullets that hit Earth - could actually be iron nuclei.



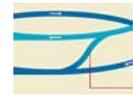
### Discovery of rare single top quarks

Scientists of Fermilab's CDF and DZero collaborations observed particle collisions that produce single top quarks, a discovery significant in the Higgs boson search.



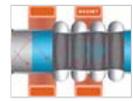
### Project X

Project X would allow for numerous experiments at the intensity frontier and would allow scientists to develop technologies for a future machine at the energy frontier.



### Muon Collider

A muon collider would allow for a new generation of experiments at the energy frontier.



### P5 report

The Particle Physics Project Prioritization Panel [proposes a strategic plan](#) for the next 10 years to address the central questions in particle physics using a range of tools and techniques at three interrelated frontiers.



### Physics at Fermilab

Learn how Fermilab is paving the way for the next particle physics discovery.



### Result of the Week

At Fermilab's Tevatron Collider, physicists have been telling the story of their research results in weekly installments for more than five years.



Fermi National Accelerator Laboratory Office of Science / U.S. Department of Energy Managed by Fermi Research Alliance, LLC

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