

Calendar

Friday, July 25
3 p.m. (NOTE TIME)
 DIRECTOR'S COFFEE
 BREAK - 2nd Flr X-Over
3:30 p.m.
[Joint Experimental-Theoretical Physics Seminar](#) (NOTE TIME & LOCATION) - Auditorium
 Speakers: C. Hays, University of Oxford and A. Juste, Fermilab
 Title: New Results for ICHEP from CDF and DZero
8 p.m.
[Fermilab International Film Society](#) - Auditorium
 Tickets: Adults \$5
 Title: [Bacheha-Ye-Aseman](#) (Children of Heaven)

Saturday, July 26
8 p.m.
[Fermilab Arts Series](#) - Auditorium
 Tickets: \$20/\$10
 Title: [Wilderness Plots](#) (Prairie Tour begins at 6 p.m.)

Monday, July 28
 PARTICLE ASTROPHYSICS SEMINARS WILL RESUME IN THE FALL
3:30 p.m.
 DIRECTOR'S COFFEE
 BREAK - 2nd Flr X-Over
 THERE WILL BE NO ALL EXPERIMENTERS' MEETING THIS WEEK

[Click here](#) for NALCAL, a weekly calendar with links to additional information.

Weather

 **Chance of thunderstorms 89°/69°**

[Extended Forecast](#)
[Weather at Fermilab](#)

Current Security Status

Feature

DOE Office of High Energy Physics launches new site



The new DOE Office of High Energy Physics Web site.

Department of Energy Web site.

The new DOE Office of High Energy Physics [Web site](#) provides insight into how particle physics benefits society, plus in-depth information about the nation's current research program and a vision for future plans.

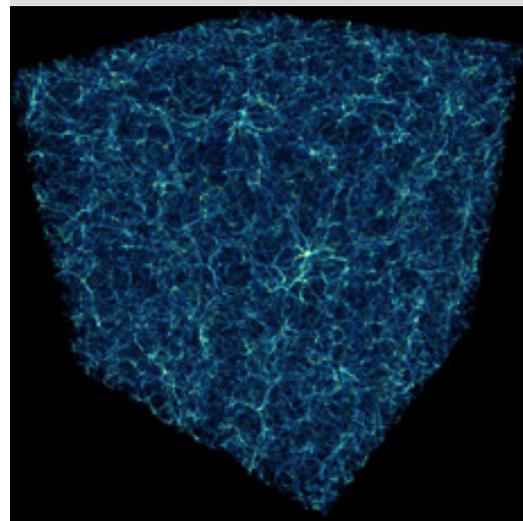
"Particle physics has a compelling story to tell," said Glen Crawford, director of the Research and Technology R&D Division in the Office of High Energy Physics. "From the congressional staffer learning about particle physics to the budget officer investigating a grant proposal, we hope that the new site will serve as a useful resource and tell the story well."

The new site defines the questions that drive particle physics and the current and upcoming experiments that will provide answers. It also describes the five research areas that make up the U.S. particle-physics program: proton accelerator-based physics, electron accelerator-based physics, non-accelerator physics, theoretical physics and advanced technology R&D.

The benefits section highlights how particle physics has contributed to areas such as medicine, homeland security, industry, computing and workforce development. A [fact sheet](#) that summarizes select examples of

From iSGTW

Zooming in on galaxy formation



This simulated cube of space about 2 billion light years across represents gas density logarithmically, thus highlighting the variation. *Image courtesy of Matthew Hall, NCSA.*

It is easy to get lost in the beauty and awe of the universe, in its amazing structure of stars and galaxies. But how did the universe evolve into this structure?

The very early universe consisted of homogeneous gas with tiny perturbations. As the gas cooled over time, it collapsed under gravity into clumps and then galaxies. To better understand the process of galaxy cluster formation, researchers at the University of California, San Diego and colleagues from other institutions have modeled a region of the universe and simulated its collapse.

"We use cosmology simulations to better understand the things we actually see with our telescopes and to reduce statistical errors on estimates of cosmological parameters," says collaborating astrophysicist Brian O'Shea of Michigan State University. "Simulations are a necessary part of understanding what we see."

Using the San Diego Supercomputer Center's DataStar system and TeraGrid, the researchers ran the largest detailed simulation of a cosmological structure to date. In the simulation, the region of study collapses from about 2 billion light years across to form a region of galaxy clusters only 25,000 light years across.

[Secon Level 3](#)

Wilson Hall Cafe

Friday, July 25

- Chunky vegetable soup w/ orzo
- Buffalo chicken wings
- Cajun breaded catfish
- Teriyaki pork stir-fry
- Honey mustard ham & Swiss
- Panini assorted slice pizza
- Carved turkey

[Wilson Hall Cafe Menu](#)

Chez Leon

Wednesday, July 30

Lunch

- Pecan crusted chicken salad
- Carrot cake

Thursday, July 31

Lunch

- Closed

[Chez Leon Menu](#)

Call x4598 to make your reservation.

Archives

[Fermilab Today](#)

[Result of the Week](#)

[Safety Tip of the Week](#)

[ILC NewsLine](#)

Info

Fermilab Today is online at: www.fnal.gov/today/

Send comments and suggestions to: today@fnal.gov

these applications is also available to download.

The new site includes an up-to-date list of the DOE HEP grant programs, project status and a summary of the budget process.

-- Elizabeth Clements

In the News

First e+e- Collision at BEPCII/BESIII



An overview of the Chinese Academy of Science's Institute of High Energy Physics in Beijing. *Image courtesy of IHEP Chinese Academy of Science.*

From *Interactions.org*, July 24, 2008

On late Saturday afternoon July 19, researchers at the Chinese Academy of Science's Institute of High Energy Physics in Beijing produced for the first time collisions in the upgraded BEPC-II electron positron collider that were observed in its brand new associated detector called BES-III. Although BEPC-II and BES-III had already been carefully tested separately, this was the first time they operated together. These first collisions represent a major milestone of this project, which involved eight years of planning and construction.

When it is fully operational, the BEPC-II/BES-III complex will be the world's premier facility for studying the properties of particles that contain a charmed quark (c-quark), the fourth of an assortment of six different quarks that physicists have identified as the most fundamental building blocks of matter.

[Read more](#)

—*Amelia Williamson, iSGTW*

[Read more](#)

Announcements

Have a safe day!

Pidgin: On site IM Client Class Aug. 26 or Aug. 28

Learn what instant messaging has to offer and how to use Pidgin, an instant messaging client supported by the Computing Division. [More information](#)

English Country Dancing Sunday

English Country Dancing will take place at 2 p. m. on Sunday, July 27, in Kuhn Barn. "Old Fezziwig's Band," our new local musicians' group will play live music. A potluck picnic will follow the dancing. Newcomers are always welcome, and no partner is required. For more information, please contact folkdance@fnal.gov or call (630) 584-0825 or (630) 840-8194.

Fidelity representative at Fermilab July 30

Fidelity representative, Jim Stair, will conduct individual counseling sessions at Fermilab on Wednesday, July 30. Sessions will take place in the Aquarium conference room located on the 15th floor of Wilson Hall. Call Fidelity at 1-800-642-7131 or visit the Fidelity [Web site](#) to make appointments.

NALWO lunch July 29

Fermilab's women's organization, NALWO, will host a lunch at 12:30 p.m. on July 29 at Venice Tavern, 31 N. River St. in Batavia. To attend, please contact [Supriya Jain](#).

Great America Fermi Days tickets on sale

Tickets for Fermi Days at Six Flags Great America are on sale in the Recreation Office, WH15W. Fermi Days Weekends are July 26 and 27 and August 9 and 10. Tickets are \$28.25 each.

Classifieds

Find new [classified ads](#) on *Fermilab Today*.

[Additional Activities](#)