

Calendar

Monday, Feb. 2
2:30 p.m.

[Particle Astrophysics Seminar](#)

- Curia II

Speaker: Leanne Duffy, Los Alamos National Laboratory
Title: Phase-Space Structure of the Milky Way's Dark Halo
3:30 p.m.

DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

4 p.m.

All Experimenters' Meeting - Curia II

Special Topic: Preparing for the E-906/Drell-Yan Experiment

Tuesday, Feb. 3
3:30 p.m.

DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

4 p.m.

All Experimenters' Meeting - Curia II

Special Topic: Preparing for the E-906/Drell-Yan Experiment

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

Weather

 Partly cloudy
23°/9°

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

Current Security Status

[Secon Level 3](#)

Wilson Hall Cafe

From *symmetrybreaking*

The latest from the LHC

CERN has posted the next in its series of LHC repair updates. After it was determined that the likely cause of the Sept. 19, 2008 incident was a faulty splice, CERN checked the rest of the LHC for warning signs of similar problems in other superconducting magnets. One magnet that was identified as a candidate for potential problems was removed from the LHC two weeks ago, opened up and inspected, and it has been confirmed that there is a lack of solder on the splice joint in question.

Based on these results, one more of the LHC's eight sectors will now be warmed up so that another dipole magnet can be removed for inspection. CERN states that the warmup of this additional sector will not affect the overall restart schedule. Work to repair and replace magnets damaged in the original incident continues; nine magnets have now been replaced in the LHC tunnel.

-- *Katie Yurkewicz*

Read additional articles on [symmetrybreaking](#)

Announcement

Call for applications for awards in URA Visiting Scholars Program

Universities Research Association, Inc. has announced a deadline of Friday, March 20, for the submission of applications for the first round of 2009 awards in the URA Visiting Scholars Program at Fermilab.

The URA awards support visits by researchers, faculty, postdocs or students from the 87 URA-member [universities](#) to work at Fermilab for periods of up to one year.

Proposed visits may range from attendance at conferences or summer schools to year-long research stays. Support provided by the program may range from transportation costs to local lodging expenses during a series of short visits or stipend support during a longer visit. Individual awards may be up to a maximum of \$50,000 in any 12-month period.

ES&H Tips of the Week - Environment

Gypsy moths poised to invade



Adult gypsy moths. The female, top is larger and flightless. The smaller male is a strong flier.



A gypsy moth caterpillar at Fermilab in 2008.

The winter look of barren trees you see today could return this summer. The culprit? The gypsy moth, *Lymantria dispar*. Introduced into North America from Europe in the mid-19th century, this pest, spotted at Fermilab last year, has been a persistent threat to healthy forests.

The gypsy moth caterpillar has a voracious appetite for tree foliage, especially oaks. A typical infestation can strip a mature oak tree of its leaves within a few days. Last summer, Roads and Grounds spotted a large infestation of these pests in the area of the fire station and Site 38. Later in the year, our "moth scouts" spotted numerous egg masses on the trunks of trees throughout the laboratory, so we can expect a large influx of hungry caterpillars in June or July. Almost 100 percent of the leaves on many oak trees will

Monday, Feb. 2

- French quarter gumbo
- French dip w/ horseradish cream sauce
- Smart cuisine: Santa Fe pork stew
- Smart cuisine: country baked chicken
- *Spicy hot greek wrap
- Assorted sliced pizza
- Sweet n' sour chicken w/egg roll

*Carb restricted alternative

[Wilson Hall Cafe Menu](#)

Chez Leon

Wednesday, Feb. 4

Lunch

- Grilled pork loin with braised red cabbage and wild mushrooms
- Baked stuffed apples

Thursday, Feb. 5

Dinner

- Closed

[Chez Leon Menu](#)

Call x3524 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

URA gave 34 Visiting Scholar awards in 2008, the first year of the program. Successful applicants for the first round of 2009 awards will be notified at the end of April. A second round of 2009 awards will be given out in the fall.

For details on the URA program, including application procedure and award administration, visit the [Web site](#).

In the News

Using a leadership role to put a human face on science

From *The New York Times*, Jan. 26, 2009

In February, the Nobel Prize-winning biochemist Peter Agre, 60, will be inducted as the 163rd president of the American Association for the Advancement of Science, the nation's largest scientific organization. Dr. Agre is the director of the Malaria Research Institute at the Johns Hopkins Bloomberg School of Public Health. We spoke in January for two hours in a back room at the American Visionary Art Museum in Baltimore (the current exhibition is "The Marriage of Art, Science & Philosophy") and also later on the telephone. An edited version of the conversations follows.

[Read more](#)

In the News

New limits on the origin of dark matter

From *PhysOrg.com*, Jan. 27, 2009

Determining the identity of dark matter, the mysterious stuff thought to make up the vast majority of matter in the universe, is one of the most fundamental challenges facing modern physics. Through theory and experiment, scientists have been gradually determining what dark matter probably isn't composed of, and now recent results from one collaboration have ruled out another possibility.

The collaboration, representing seven institutions in the U.S. and Spain, is known as CoGeNT. Their work has shed light on the results of two large experiments designed to gather information about dark matter, DAMA (as in DArk MATter) and its second-generation version, DAMA/LIBRA. DAMA and DAMA/LIBRA are particle detectors buried within Italy's Gran Sasso mountain, located in the

disappear.

But there is some good news. Although for a time in mid-summer our normally lush oaks will be denuded, they will recover, and within a few weeks will have a new set of leaves. By that time, the gypsy moth caterpillars will have metamorphosed into adults, and the trees will be safe, at least for this year.

The other good news is that the caterpillars have accumulated an impressive collection of natural enemies over the last century and a half. The list includes natural pathogens, like funguses and bacteria, parasitic insects that lay their eggs on or within moth larvae and predators such as ground beetles and rodents. These are sufficient to kill off many of the caterpillars before they reproduce.

Fermilab will not use aerial spraying of chemicals and bacterial biocontrols to control the moths because it is inconsistent with sound ecological management. Use of such a "blunt instrument" kills all moths and butterflies indiscriminately, has a harmful impact on potential Gypsy moth predators and, in some cases, represents possible human health risks.

-- Rod Walton, ecologist

Accelerator Update

Jan. 28-30

- Three stores provided ~35.25 hours of luminosity
- Main Injector kicker problems
- Linac RF station trip

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

Announcements

Latest Announcements

[Day Camp information and registration](#)

[Child Care program offered](#)

[Nominations requested for job profiles](#)

[Discount tickets: Disney On Ice presents Worlds of Fantasy](#)

[Discount tickets to Smucker's Stars On Ice](#)

country's central Abruzzo region. Over the last ten years the detectors have recorded a yearly rise and fall in signal, which scientists guessed could be the result of Earth passing through a halo of weakly interacting massive particles (WIMPs), a class of theoretical particles that are a prime candidate for dark matter. The idea of a WIMP halo as the cause of the signal pattern is controversial, but physicists could come up with no other explanation. Other dark-matter studies have ruled out the possibility that the signal is due to WIMPs, but the detectors used were not able to track very lightweight WIMPs nor could they investigate certain interactions between the WIMPs and the sodium-iodine nuclei in the detectors.

[Read more](#)

[Discount tickets: World's Toughest Rodeo presents toughest cowboy](#)

[Have a safe day!](#)

[Second Annual Mentor Round Up](#)

[Outlook 2007 New Features classes scheduled Feb. 3 and 26](#)

[Conflict Management & Negotiation Skills class offered Feb. 3](#)

[PowerPoint 2007: New Features class offered Feb. 3](#)

[Facilitating Meetings That Work class offered Feb. 4](#)

[Word 2007: New Features class offered Feb. 4](#)

[Excel 2007: New Features class offered Feb. 4](#)

[Interpersonal Communication Skills class being offered Feb. 5](#)

[Bulgarian Dance Workshop, Feb. 12](#)

[Additional Activities](#)

[Submit an announcement](#)