

Calendar

[Have a safe day!](#)

Friday, June 25

3:30 p.m.

DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

4 p.m.

[Joint Experimental-Theoretical Physics Seminar](#) - One West

Speaker: Elena Aprile, Columbia University

Title: The XENON Dark Matter

Search: Status and Prospects

Monday, June 28

2:30 p.m

[Particle Astrophysics Seminar](#)

(NOTE LOCATION) -

Racetrack

Speaker: Corey Reed, National Institute for Subatomic Physics, NIKHEF - WH-7X-Over

Title: Searching for Neutrino Sources with the ANTARES Telescope

3:30 p.m.

DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

4 p.m.

All Experimenters' Meeting -

Curia II

Special Topic: High Pressure rf

Cavities

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

[Upcoming conferences](#)

Campaigns

[Take Five](#)

[Tune IT Up](#)

H1N1 Flu

Special Announcement

Submit timecards today

Please submit your timecard using the new Fermilab Time and Labor electronic reporting system by the end of the day today.

In the new system, submit your timecard by marking it as approved. Your approver will need to approve the timecard as well.

Approvers should verify today that they can [access](#) all of the proper timecards and that the employees whose timecards they will approve have entered time and effort into the system successfully.

You can access the new FTL system [here](#).

To read the answers to questions that the FTL team has received about the new timecard so far, check [here](#). Please contact your [local support team](#) with any other questions or concerns. You can also contact the Service Desk by phone at x2345 or by opening a [Service Desk ticket](#).

FTL support team members will be available at the Timecard Doctor booth during lunch hours today and on Monday, June 28.

Feature

Baylor University joins CMS



Baylor University's Kenichi Hatakeyama (left) and Jay Dittman in the CMS Centre at CERN.

The CMS collaboration welcomed Baylor University, the oldest continually operating university in the lone star state, into its ranks at last month's collaboration board meeting at CERN.

Recovery Act Photos

New Muon Lab construction almost half completed



Construction workers replace dirt along the completed sides of the New Muon Lab Expansion June 22. Fermilab awarded a \$2.8 million contract, funded by the American Recovery and Reinvestment Act, to Michigan-based company Barton Malow to build the extended tunnel, which will house Fermilab's superconducting radio-frequency test accelerator. As of this week, the company had completed 46 percent of the construction work. They are scheduled to pour concrete to form the roof of the tunnel next week.



Mark Nylund of Fermilab's Accelerator Division installs new cable June 22 inside the New Muon Lab. Fermilab has used about \$100,000 in Recovery Act funds to purchase different types of electrical and signal cables for Fermilab's superconducting radio-frequency test accelerator.

Special Announcement

DASTOW group photos now available

Group photos from Thursday's DASTOW event are now available on the security desk in the atrium of Wilson Hall.

In the News

For information about H1N1, visit Fermilab's flu information [site](#).

Weather



Sunny
85°/68°

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

Current Security Status

[Secon Level 3](#)

Wilson Hall Cafe

Friday, June 25

- Breakfast: Chorizo burrito
- Old fashioned ham & bean soup
- Philly-style chicken
- Chicken pot pie
- Baked fish over rice
- Roasted veggie & provolone panini
- Assorted sliced pizza
- Baked potatoes

[Wilson Hall Cafe Menu](#)

Chez Leon

Wednesday, June 30
Lunch

- Firecracker beef on a rice noodle salad
- Almond cake

[Chez Leon Menu](#)

Call x3524 to make your reservation.

Archives

Founded in 1845, the central-Texas university has been a member of the CDF experiment at Fermilab since 2005 and members of its physics department feel honored to add another Energy Frontier experiment to their roster.

"CMS was a natural choice for our group," said Kenichi Hatakeyama, a physicist at Baylor University.

Even though Baylor University just became an official member of the collaboration, Hatakeyama had already been involved in CMS as a research associate at Rockefeller University in New York. When he joined Baylor University last summer, the department expressed interest in expanding their collider physics program. They made it Hatakeyama's personal mission to join CMS, while continuing his work at Baylor.

"This is very important to us because it is going to be a long-term research project," said Jay Dittmann, a physicist at Baylor who presented the proposal with Hatakeyama to CMS. "Joining the CMS collaboration at CERN is the future of our high-energy physics research program here at Baylor."

In addition to Dittmann and Hatakeyama, the Baylor group has two postdocs and expects to gain some graduate students soon. They plan to focus on the hadron calorimeter with an emphasis on data validation and calibration.

They are also making contributions to the JetMET physics object group, especially in Data Quality Monitoring.

"We wanted to start by contributing to the fundamental foundation of the experiment," Hatakeyama said.

The U.S. CMS collaboration now has a total of 49-member institutions.

"I would like to congratulate Baylor University on joining CMS," said Nick Hadley, the U.S. CMS Collaboration Board chair. "They are already making significant contributions, and I am glad that they have joined us in this crucial and exciting time."

- *Elizabeth Clements*

In the News

Lightest bits of matter just got lighter

From *ScienceNOW*, June 22, 2010

Cosmologists have used measurements of some of the most massive objects in the universe to place a limit on the mass of the lightest particle in the cosmos. Using data from a survey of 700,000 galaxies, the researchers found that an elusive subatomic particle called a neutrino can have a mass of no more than 0.28 electron volts (eV), which is less than one-billionth of the mass of a hydrogen atom.

Neutrinos are the loners of the particle world; they hardly interact with other matter at all. For example, billions of neutrinos are passing through you right now, yet only one of them is likely to hit a nucleus in your body in your lifetime.

[Read more](#)

Announcements

Latest Announcements

[Time to complete accomplishment reports](#)

[Ask HR: 15th floor visits Wilson Hall Atrium today](#)

[Oracle E Business Suite and ProCard application systems downtime today from 8 - 9 p.m.](#)

[Deadline for The University of Chicago Tuition Remission Program - today](#)

[Submit timecard on new system today](#)

[Request on-site housing now for fall 2010 & spring 2011](#)

[Kyuki-Do martial arts classes began June 21](#)

[10,000 Steps-a-Day winner announced](#)

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[Day Camp payments due](#)

[Web of Science citation database](#)

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is online at:

www.fnal.gov/today/Send comments and suggestions to:
today@fnal.govVisit the Fermilab [home page](#)[Unsubscribe](#) from *Fermilab Today***Desktop cosmos: Small is beautiful for big physics**From *New Scientist*, June 23, 2010

In the control centre on the Hanford Nuclear Reservation in Washington state, banks of plasma screens await a signal that might never come. Hope springs from two concrete tubes that stretch out at right angles from the control centre and extend 4 kilometres towards the horizon. Inside them, laser beams ping relentlessly back and forth. The site is one of two that make up the Laser Interferometer Gravitational-Wave Observatory, LIGO, the largest experiment so far for spying the ripples in space-time known as gravitational waves.

Off the coast of west Africa, perched on the highest point of the Canary Islands, a gamma-ray telescope called MAGIC - the name stands for the Major Atmospheric Gamma-ray Imaging Cherenkov telescope - scans the heavens for bursts of high-energy photons from far corners of the universe. Every now and again it catches a fleeting glimpse of something. Seconds, perhaps, of activity are followed by silence again.

Back in the US, meanwhile, teams work flat out on plans for a \$650 million space probe called the Joint Dark Energy Mission. It is just the latest and most ambitious bid to study how the universe is expanding and tell us what the vast bulk of the cosmos is made of.

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