Fermilab Today

Wednesday, December 6, 2006

Calendar

Wed., December 6
3:30 Director's Coffee Break - 2nd Flr X-Over
4:00 p.m. Fermilab Colloquium - 1 West
Speaker: B. Kayser, Fermilab
Title: Exploring the Neutrino Questions

THERE WILL BE NO FERMILAB ILC R&D MEETING THIS WEEK

Thurs., December 7
12:00 p.m. Special Particle Astrophysics Seminar - The Dark Side (WH-6W) (NOTE DATE, TIME, LOCATION)
Speaker: G. Rigoloulos, Universit Utrecht
Title: The Evolution of Non-Linear Perturbations in Inflation
1:00 p.m. ALCPG ILC Physics and Detector Seminar - West Wing (WH-10NW)
Speaker: M. Thompson, University of Cambridge
Title: Particle Flow Algorithms: Current Status
2:30 p.m. Theoretical Physics Seminar - Curia II
Speaker: C. Berger, Stanford Linear Accelerator Center
Title: Bootstrapping One-Loop Amplitudes (Needles in Large HaystaCks)
4:00 p.m. Accelerator Physics and Technology Seminar - Curia II (NOTE LOCATION)
Speaker: M. Convery, Fermilab
Title: The CDF Roman-Pot Detectors

Click here for NALCAL, a weekly calendar with links to additional information.

Weather

Mostly Cloudy 31°/10°

Extended Forecast
Weather at Fermilab

Feature Story

Three Fermilab physicists become APS Fellows

The American Physical Society has awarded fellowships since its inception in 1899. The Society currently awards fellowships to approximately 200 members a year, about one half of one percent of their total membership. To receive a fellowship APS members are nominated and elected APS fellowship committees and the APS Council. Fellowship is an honor signifying recognition by one's professional peers.

Fermilab Today is pleased to congratulate:

Dan Bauer

Dan Bauer, CDMS

Citation: For his crucial contributions to the success of the Cryogenic Dark Matter Search experiment.

Nominated by: APS Division of Particles and Fields

Bauer is project manager for CDMS--an underground experiment searching for dark matter particles.

Sergei Nagaitsev

Sergei Nagaitsev, Accelerator Division

Citation: For designing, building, and successfully commissioning the world's first relativistic electron cooling device.

Nominated by: APS Division of Physics of Beams

Nagaitsev was in charge of the Fermilab electron cooling project and led the commissioning of the Recycler antiproton storage ring, where the electron cooling system was installed in 2005. He is presently the Deputy Director of the Fermilab ILC program.

Jeff Spalding, CMS

Citation: For his

From Fermilab's Chief Operating Officer

Stay in contact

Bruce Chrisman is Fermilab Chief Operating Officer.

Thanks to all of you who braved the snow and came to Fermilab on Friday. The first employees arrived before midnight to begin clearing the roads, and many other people reported to work over the course of the next twelve hours to keep the lab going. It was a great effort, and I appreciate all your work.

Trying to get a hold of people during the snowstorm reminded me of how important it is to keep your contact information current, including office numbers, pagers, home phone numbers and emergency contact information. Here at Fermilab, we maintain two databases that capture this information: the HR database for employees and the online Telephone Directory for employees, visitors and contractors. Please take a moment to verify and update your information.

The HR database includes the private addresses and contact information as well as emergency contact information of all employees. You can check and update this information using the Fermilab Employee Self Service. If you forgot your login password or never used the system before, the Web page lets you request a new password.

The Telephone Directory lists your work-related contact information and--if employees choose to do so--private contact information that can only be viewed when the directory is accessed from a Fermilab computer. To report errors or changes in your work-related contact information, please use the appropriate phone number or email address listed at the bottom

Current Security Status

Secon Level 3

Wilson Hall Cafe

Wednesday, December 6
-Vegetable Beef
-Fish and Chips
-Almond Crusted Sole
-Country Fried Steak with Pepper Gravy
-Beef and Cheddar Panini with sauteed Onions
-Assorted Slice Pizza
-Cavatappi Pasta with Italian Sausage and Tomato Ragu

Wilson Hall Cafe Menu

Chez Leon

Wednesday, December 6
Lunch
Catfish Fillet with Coarse Mustard Sauce
Roasted Corn and Red Pepper Tomato Rice Pilaf
Chocolate Pecan Tart

Thursday, December 7
Dinner
Steamed Mussels in White Wine, Garlic & Thyme
Veal Marsala
Orzo with Pine Nuts
Sautéed Spinach with Lemon Zest
Pear Hazelnut Soufflé

Chez Leon Menu
Call x4598 to make your reservation.

Archives

Fermilab Today

Result of the Week

Safety Tip of the Week

ILC NewsLine

Info


Jeff Spalding

outstanding contributions to heavy flavor physics experiments in both fixed target and colliding hadron beam environments.

Nominated by: APS Division of Particles and Fields

Spalding is co-leading the integration of the CMS silicon tracker.

Other 2006 fellows related to Fermilab are Fermilab user Ed Blucher, University of Chicago, KTeV experiment; former employee Norbert Holtkamp, now at Oak Ridge National Laboratory; and Lia Merminga, former member of the Accelerator PhD program.

--D.A. Venton

Walking in the dark?

Fermilab physicist and MIT graduate student Georgios Choudalakis took a poll back in August to find out what people expected to find from the Large Hadron Collider. He posted the results, and sent us a note about the motivation behind the poll.*

Dear FT:

The reason I started this poll is that my analysis (conducted at the MIT High-pT group in CDF) searches for the "unknown" portion of the pie. I have been attending hundreds of talks by people who look for a very specific signature that is predicted by a very specific theory extending the Standard Model, so I was curious how much faith my colleagues really have that what they're looking for can be real.

The chances looked very low to me, and it seems that the voters agree. With the exception of the SM Higgs (which received 27 percent and for many voters was a second tick-mark), even SUSY (a great "favorite") takes only 14 percent. The moral of this, for me, is that unlike the early 90s, when we knew that we were looking for--the top quark *that had to be there*--now we are walking in the dark.

Something must exist to play the role of the Higgs (namely to induce the electroweak symmetry breaking we observe) but we can only try to guess right now, and none of our guesses can be taken very seriously. What will

of the main page of the Telephone Directory.

Please keep your contact information current. Your coworker who might need to get a hold of you to catch a ride home will appreciate it as well.

In the News

From *The New York Times*, December 5, 2006:

China Pursues Major Role in Particle Physics

Mao Zedong dreamed of splitting an electron.

This was no idle diversion. According to natural dialectics, which formed the philosophical underpinnings of Marxism, the entire universe, from top to bottom, was seething with tension and change. As a result, Mao thought, nature should be infinitely divisible.

“Take a footlong stick and remove half every day. In 10,000 years it will not run out,” Mao, who rarely missed the chance to chat up physicists, often said. “This is truth. If you don’t believe it, you may test it. If there is an end, there is no science.”

Read More (registration required)

Announcements

Special message from Roads and Grounds: Watch out!
It just keeps getting colder, and re-frozen ice is everywhere. To deal with this particularly nasty form of frozen water, Mike Becker of Roads and Grounds has some advice: "With temperatures so far down in the next couple of days, take small steps, remain conscious of your balance, and anticipate that there will be ice in front of you when you walk," he said. "The roads are in pretty good shape, but if you come across ice, remember the things you learned in driver's ed: keep wider space between you and the next car and drive slow."

Volunteer for WTTW Channel 11
Public television WTTW Channel 11 is looking for 10 to 15 volunteers from Fermilab to help with the fundraising that the station will conduct on Sunday, Dec. 10. Volunteers need to arrive at the studio in Chicago by 4:00 p.m. and be willing to help until 10:30 p.m. Participants might appear live on TV. If you want to join the Fermilab group of volunteers, please email Kurt Riesselmann, kurtr@fnal.

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

Send comments and suggestions to:
today@fnal.gov

guide our theories will be experimental data, which we uniquely have currently at the Tevatron. Of course, LHC will follow. It makes all the sense at this point to search for the "unknown" in our data. The good thing is that whatever is to be found next, it will be very exciting; much more so than the top quark was.

*Answers were taken through the fnalgrads@fnal.gov mailing list, which reaches graduate students, post-docs and professors. Each person was able to vote for more than one choice. The percentages are based on the number of votes, not number of people voting. Voter's IP address were recorded to prevent them from voting for the same item twice.

gov with your name and the name of a guest/spouse you might bring. The WTTW11 studios are located at 5400 N St. Louis Avenue, Chicago. For additional information call Kurt at x5681.

Wilson Hall Stocking Stuffer Sale
Prepare for the holidays and winter season with Fermilab winter apparel, stocking stuffers, coffee mugs, science toys and more. The sale will be held outside One West today, December 6 and tomorrow, December 7; from 10:00 a.m. to 1:30 p.m. Visa and MasterCard will be accepted.

Upcoming Activities