

Calendar

Wednesday, December 15

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

3:30 p.m. DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

4:00 p.m. Fermilab Colloquium - 1 West

Speaker: M. Kramer, University of Manchester

Title: Was Einstein Right? - The Double Pulsar as a Unique Testbed for Strong-Field Gravity

Thursday, December 16

2:30 p.m. Theoretical Physics Seminar (NOTE LOCATION) - Conjectorium (WH-3NE)

Speaker: B. Grinstein, University of California, San Diego

Title: Precise Determination of Vub from Exclusive B and D Decays

3:30 p.m. DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

THERE WILL BE NO ACCELERATOR PHYSICS AND TECHNOLOGY SEMINAR TODAY

Wilson Hall Cafe

Wednesday, December 15

French Onion Soup

Texas Style Meatloaf Sandwich \$4.75

Grilled Chicken with Black Bean & Corn Salsa \$3.75

Kielbasa & Sauerkraut \$3.75

Three Cheese & Tomato Panini \$4.75

Sausage & Pepperoni Combo \$2.75

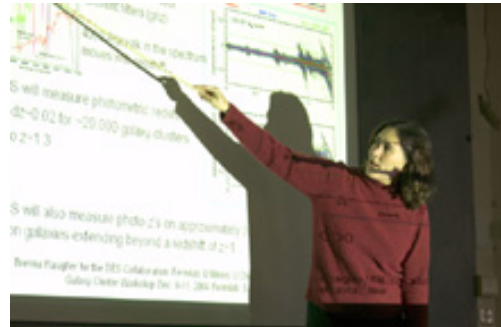
Fettucine Carbonara with Ham &

Mushrooms \$4.75

[Wilson Hall Cafe Menu](#)

[Chez Leon](#)

Particle Astrophysics Conference Celebrates New Center



Fermilab Physicist Brenna Flaughter talked about the proposed Dark Energy Survey experiment at the conference on Friday.

(Click on image for larger version.)

Cosmologist Michael Turner of the University of Chicago offered a Colloquium talk on "The Big Questions in Cosmology" to kick off a three-day conference last week celebrating the opening of Fermilab's new Particle Astrophysics Center. The conference, "Fundamental Physics from Galaxy Clusters," highlighted the importance of upcoming experiments in areas ranging from precision measurements to "wild speculation" on dark energy.

"There are two purposes of the workshop," said Fermilab Theoretical Astrophysicist Jochen Weller, a presenter and member of the organizing committee. "We want to inaugurate the Particle Astrophysics Center and show the world that we are here. Also, we want to bring together experts in this field and create a forum for discussion."

Turner, Assistant Director for Mathematical and Physical Sciences at the National Science Foundation,

Artist's Live Adaptation of Tevatron Events




Artist Tim Otto Roth uses this 700-square-foot array of individually controlled panels to show "I see what I see not."

This week the citizens of Munich as well as Internet users around the world can enjoy the artistic rendering of live Tevatron events on 76 large outdoor panels. In his project "[I see what I see not](#)," artist Tim Otto Roth uses live scientific data to create visions of science in action. Last week, Roth transformed images from the German KASCADE cosmic ray experiment into squares of rapidly changing colors. This week, he will apply his technique to live events recorded by CDF and DZero. Future imagery will rely on events from BaBar (SLAC) and two astronomical observatories.

The Fermilab artwork is on display this week from 10 a.m. to 1 p.m. CT and will be broadcast via [Web cam](#).

Announcements

Weather

 Breezy 38°/27°

[Extended Forecast](#)

[Weather at Fermilab](#)

Current Security Status

[Secou Level 3](#)

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delivered a comprehensive summary of the many unknowns in astrophysics, including the challenges involved with getting accurate measurements of cosmological parameters through upcoming experiments. On Thursday morning, Fermilab director Mike Witherell and the new Particle Astrophysics Center director Rocky Kolb addressed the more than 150 conference attendees, many of them students, and emphasized the importance of collaboration. "The upcoming projects are beyond the scope of a single university, or even a group of universities," Kolb said.

Astrophysicists from many countries spoke about how studying galaxy clusters could help tighten the parameters for the equation of state, with data collected by a variety of surveys from collaborations around the world. "Fermilab is involved in various proposals which try to probe dark energy by observing galaxy clusters through a variety of methods," said Weller. "Right now, our theories of dark energy are wild speculation. We need experimental data to guide our theoretical models."

In the News

FYI: AIP Bulletin of Science Policy News, December 14, 2004

Coming and Going: Changes in Senior Administration S&T Officials

Three important changes in agency and cabinet heads have been announced in the last few weeks. Each of the changes affects major sources of funding for physical sciences research.

[read more](#)

Monthly Leave Sheets

Monthly Leave Sheets due in Payroll on 12/15/04 at 10:00 a.m. Weekly time sheets for the week ending 12/12 due in payroll on 12/13/04 at 10:00 a.m. Payday will be December 22 for monthly employees. For weekly employees, payday for the week ending 12/19 will be paid on 12/22. For the week ending 12/26, weekly employees will be paid on 12/22.

International Folk Dancing

International Folk Dancing will be held at 7:30 p.m. Thursday, December 16, at the Geneva American Legion Post. Info at 630-584-0825 or 630-840-8194 or folkdance@fnal.gov.

Upcoming Power Outages

Neutrino Labs A, C, & D
12/15 - These Neutrino Labs will be without power for one hour while they get connected to a generator. They will be on the generator for about a week and then go down for another hour to connect back to regular power.

[Upcoming Activities](#)