

## Calendar

### [Have a safe day!](#)

**Tuesday, Dec. 21  
3:30 p.m.**  
DIRECTOR'S COFFEE  
BREAK - 2nd Flr X-Over  
THERE WILL BE NO  
ACCELERATOR PHYSICS  
AND TECHNOLOGY  
SEMINAR THIS WEEK

**Wednesday, Dec. 22  
3:30 p.m.**  
DIRECTOR'S COFFEE  
BREAK - 2nd Flr X-Over  
THERE WILL BE NO  
FERMILAB COLLOQUIUM  
THIS WEEK

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

### [Upcoming conferences](#)

## Campaigns

### [Take Five](#)

## Weather



Freezing drizzle  
35°/24°

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

## Current Security Status

[Secon Level 3](#)

## Wilson Hall Cafe

**Tuesday, Dec. 21**

- Chef's choice soup
- Grille only
- Chefs choice
- Deli only
- Assorted sliced pizza
- Closed

**The Cafeteria will have  
adjusted holiday hours:**

- Dec. 20-22: 7:30 a.m. - 3 p.m.
- Dec. 23: 7:30 a.m. - 11:30 a.m.
- Dec. 24-25: closed

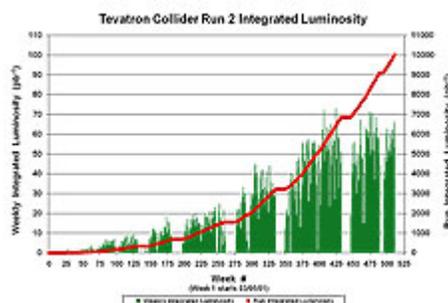
## Special Announcement

### **Fermilab Today on vacation Dec. 22, returns Jan. 3**

This is the final issue of *Fermilab Today* for 2010. *Fermilab Today* will begin publishing again on Monday, Jan. 3. Happy holidays!

## Milestones

### **Tevatron reaches holiday milestone**



During the past week, the Tevatron reached a milestone. The Run 2 total delivered luminosity reached 10 inverse femtobarns, an equivalent of 1.5 quadrillion collisions. Both collaborations are taking advantage of the wealth of data delivered by the Tevatron.

## Photo of the Day

### **Season's greetings from Fermilab**



A winter scene at Fermilab. Happy holidays!  
Photo: Rediar Hahn.

## Photo of the Day

### **Celebrating the season with food, fun skits**

## Director's Corner

### **Holiday cheer**

The Fermilab spirit was very much in evidence last Friday. During the afternoon we had a symposium to celebrate the 25th anniversary of the first collisions at the Tevatron. It was an extraordinary experience to hear in one afternoon the rich history of the Tevatron and its many



Fermilab Director  
Pier Oddone

accomplishments. The Tevatron is the pioneering machine, the first large superconducting ring that broke new ground and set the stage for RHIC, HERA and the LHC. Its detectors, CDF and DZERO, are technological marvels and moved forward technologies like the use of silicon vertex detectors in hadronic collisions. The experimental collaborations made major discoveries and measurements of unprecedented precision. They produced hundreds of Ph.D. students and developed new analysis techniques. The remarkable thing about the Tevatron is that this rich history is not yet done as we are entering the new territory of electroweak symmetry breaking.

The symposium was followed by a delicious potluck dinner contributed by Fermilab families, providing evidence not only of great culinary talent, but manifesting the many nationalities present in our laboratory. The children's Christmas carols that opened the potluck contributed to the great warmth of the evening.

Finally the evening was topped by the Fermilab Talent Show, featuring singing, magic and two skits, one produced by the theory group and one by our graduate students. Talent at Fermilab has extra dimensions and goes way beyond that which we display at work!

But what would the holidays be without the Grinch? As we celebrated achievements and talent with warmth inside, the Grinch was busy outside making trouble, not only freezing the weather but salaries as well, preventing Congress from passing a budget for the fiscal year that is already well underway and getting the Deep

Dec. 27-29: 7:30 a.m. to 3 p.m.  
Dec. 30: 7:30 a.m. to 11:30 a.m.  
Dec. 31 and Jan. 1: Closed.

[Wilson Hall Cafe Menu](#)

## Chez Leon

**Wednesday, Dec. 22**  
Closed

**Thursday, Dec. 23**  
Closed

[Chez Leon Menu](#)  
Call x3524 to make your reservation.

## Archives

[Fermilab Today](#)

[Director's Corner](#)

[Result of the Week](#)

[Safety Tip of the Week](#)

[CMS Result of the Month](#)

[User University Profiles](#)

[ILC NewsLine](#)

## Info

*Fermilab Today* is online at:  
[www.fnal.gov/today/](http://www.fnal.gov/today/)

Send comments and suggestions to:  
[today@fnal.gov](mailto:today@fnal.gov)

Visit the Fermilab [home page](#)

[Unsubscribe](#) from *Fermilab Today*



Fermilab daycare children sing holiday songs at Fermilab's second annual potluck party. *Photo: Reidar Hahn*



Members of Fermilab's theory department put on a skit as part of the laboratory's second annual Potluck Party Dec. 17. *Photo: Reidar Hahn.*



Fermi singers sing holiday songs at the second annual Potluck Party on Dec. 17. *Photo: Reidar Hahn.*



The performers take a bow. *Photo: Reidar Hahn.*

## Fermilab honors Tevatron collisions 25th anniversary

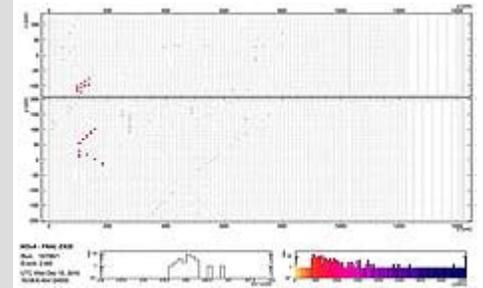
Underground Science and Engineering Laboratory (DUSEL) stuck in a ditch.

As we conclude a great year of achievements, we must look at next year's challenges with optimism. The Fermilab spunk so much in evidence last Friday will serve us well in the months ahead as together we confront whatever the Grinch has done.

Have a happy and healthy holiday season!

## Photo of the Day

## First neutrinos for NOvA prototype detector



The NOvA prototype near detector spotted its first neutrinos from the NuMI beam on Dec. 15. The collaboration began running the prototype detector in November.

## Accelerator Update

### Dec. 17-29

- Five stores provided ~62 hours of luminosity
- Operations had trouble with a Linac RF station (LRF3)
- Operators tuned the Linac backup source ( $I^-$  source)

\*The integrated luminosity for the period from 12/13/10 to 12/20/10 was 66.31 inverse picobarns. NuMI reported receiving  $7.62^{18}$  protons on target during this same period.

[Read the Current Accelerator Update](#)  
[Read the Early Bird Report](#)  
[View the Tevatron Luminosity Charts](#)

## Announcements

### Latest Announcements

[Scottish country dancing meets Dec. 21, Jan 4, but not Dec. 28](#)

[International Folk Dancing meets Dec. 23, not Dec. 30, resumes weekly Jan. 6](#)

[Timecard Instructions for Non Exempt Employees working on half holiday](#)

[Reminder Timecards due early for Week](#)



Former Fermilab Director John Peoples took a light-hearted approach to his lecture at the 25th anniversary symposium of the first Tevatron collisions by adding a woman's hat and skirt to his attire. *Fermilab Today* will include more coverage of this event in the new year. Photo: Reidar Hahn.

#### In the News

### Particle therapy comes of age From *The Engineer*, Dec. 13, 2010

*Particle accelerators that can blast tumours with pinpoint accuracy are entering the medical mainstream.*

When five-year-old Alex Barnes was diagnosed with an aggressive brain tumour the conventional options were bleak: surgery, followed by radiotherapy, with a strong chance of serious brain damage.

Fortunately, there was another choice. Thanks to the generosity of friends and relatives, the parents of the Leicestershire child were able to afford to take him to the US to receive proton therapy: a highly targeted, particle physics-based treatment that has a number of compelling advantages over traditional non-invasive approaches. In September 2010, two years after his treatment, Alex was given the all-clear and doctors believe there is now little chance of the tumour returning.

[Read more](#)

[of Dec 13 – 19](#)

[Users Center closed Dec. 20 - Jan 7](#)

[Cafeteria holiday hours Dec. 20 - Jan. 1](#)

[Project Management Introduction class - Feb. 14, 16 & 18](#)

[Transportation Services holiday service closed Dec. 23 and 30](#)

[Reminder Timecards due early for Week of Dec 20 - 26](#)

[Movie tickets make gift giving easy](#)

[Medical Department holiday schedule](#)

[Submit a topic suggestion for Disability Awareness Seminar](#)

[Guided practicas for Argentine Tango through Dec. 29](#)

[Fermilab Today holiday schedule](#)

[Open basketball at the gym](#)

[Folk Dancing weekly on Thursdays in Dec.](#)

[Fermilab Blood Drive Dec. 20 & 21 \(Walk in only\)](#)

[Fermilab Arts and Lecture Series Box Office winter schedule](#)

[Users Office Holiday Hours](#)

[Accelerate to a Healthy Lifestyle Program through Dec. 31](#)

[Disney On Ice presents Toy Story 3 Feb. 2-13](#)

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[Submit an announcement](#)