

Calendar

Thursday, July 14

9:00 a.m. - 5:00 p.m. Astrophysics Workshop ([agenda](#))

11:45 a.m. Cake and Ice Cream with Mike Witherell - Wilson Hall Atrium

1:00-5:00 p.m. Witherell Symposium - Auditorium

Title: Fermilab Science: The Witherell Years [More information](#)

THERE WILL BE NO ACCELERATOR PHYSICS AND TECHNOLOGY SEMINAR TODAY

THERE WILL BE NO THEORETICAL PHYSICS SEMINAR THIS WEEK

THERE WILL BE NO DIRECTOR'S COFFEE BREAK TODAY

Friday, July 15

3:30 p.m. DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over

4:00 p.m. Joint Experimental Theoretical Physics Seminar – In conjunction with TeV Particle Astrophysics Workshop - 1 West

Speaker: A. Chou, Fermilab

Title: First Scientific Results of the Pierre Auger Observatory

Weather



Breezy 87°/68°

[Extended Forecast](#)

[Weather at Fermilab](#)

Current Security Status

[Secon Level 3](#)

Wilson Hall Cafe

Pier Oddone Welcomed in With Round of Applause

Yesterday morning at 8:30 a.m., Pier Oddone entered Wilson Hall for his

first "on-site" day as new director of

Fermilab. He didn't know that a

large crowd of employees and

well-wishers

waited for him

just inside the

doors. His wife

Barbara guided

him in at the right

time. As he

stepped into the building, the crowd burst into applause to welcome him to his new

position. With a broad smile, Oddone

thanked the crowd and made his way into the atrium, shaking everyone's hand as

he went, babies included.

[Watch the video](#)

--Amelia Greene



Pier and Barbara Oddone entering Wilson Hall

yesterday morning.

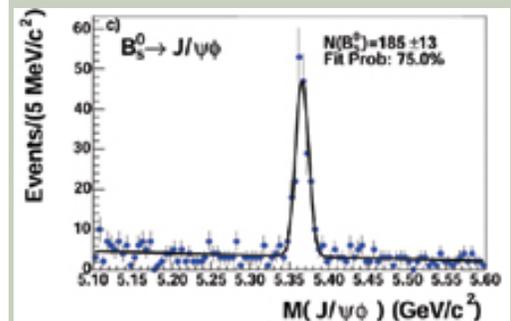
(Click on image for

larger version.)



Fermilab Result of the Week

Heavy Bottoms



Mass distribution of B_s candidates with a fit to the data superimposed. (Click on image for larger version.)

In the Standard Model, Quantum Chromodynamics (QCD) is the theory describing strong interactions between objects of color charge. Hadrons, such as the proton and neutron, are colorless particles made up of strongly-interacting constituents. The heaviest known hadrons contain a bottom or b quark. Λ_b (pronounced "Lambda sub b") and B_s ("Bee sub s") are important examples of such b hadrons.

The masses of these hadrons are determined by the mass of their constituents and, very importantly, their interactions. Masses of hadrons in systems bound by the strong force are the equivalent to spectral lines in atoms bound by the electromagnetic force. Thus the study of hadron masses infers details of the strong force.

A comparison between measurements of the masses and predictions represents an important test of QCD. Currently the experimental precision is considerably better than theoretical calculations, but recent numerical advances are expected

The cafeteria will close at 1:00 p.m. today.

Thursday, July 14

Southwestern Chicken Tortilla Soup
Philly Style Cheese Steak \$4.85
Turkey Tetrazzini \$3.75
Tomato Basil Chicken Parmesan \$3.75
Southwestern Turkey Wrap \$4.85
Four-Cheese Pizza \$3.00
Marinated Grilled Chicken Caesar Salads \$4.85

The Wilson Hall Cafe now accepts Visa, Master Card, Discover and American Express at Cash Register #1.

[Wilson Hall Cafe Menu](#)

[Chez Leon](#) is now open. Call x4512 to make your reservation.

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Fermilab Will Celebrate the Witherell Years Today

Cake and Ice Cream with Mike!

All Fermilab employees, users, and contractors are invited to enjoy cake and ice cream with Mike Witherell today between 11:45 a.m. to 12:45 p.m. in the Wilson Hall Atrium.

Come thank Mike for his years of service to the Laboratory and wish him the best in the future.

Witherell

Symposium

A public science symposium to honor



Former Director

Mike Witherell

Mike Witherell, called "Fermilab Science: The Witherell Years," will be held in Ramsey Auditorium today at 1:00 p.m. This symposium will celebrate Mike Witherell's contributions to Fermilab and the science advancements that have taken place here over the past six years. A reception in the Atrium will follow the symposium from 5:00 p.m. to 6:30 p.m.

[more information](#)

ILC This Week

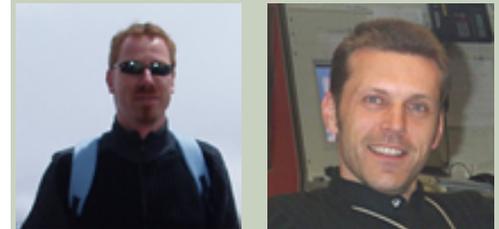
GDE Director's Corner, July 13

This week, the "8th ACFA Workshop on Physics and Detectors at the Linear Collider" is being held in Daegu, Korea. ACFA stands for the Asian Committee for Future Accelerators. It was formed in 1996 as a result of an initiative by Professor Z. Zheng, Director of IHEP, and Professor H. Sugawara, Director General of KEK. The present chair of ACFA is Professor Shin-ichi Kurokawa of KEK.

ACFA has actively pursued its stated goal

to improve on the accuracy of the predictions.

At CDF b hadrons are reconstructed from their stable charged decay products that leave ionization hits in the large tracking chamber (outer radius 1.4m). The tracking chamber is situated inside a magnetic field, that bends the trajectories of charged particles, allowing their momentum to be measured. Relying on this well calibrated device, CDF researchers have accomplished the most precise measurements of b hadron masses to date. The Λ_b and B_s masses are measured about 5 and 3 times better than the existing world averages.



Andreas Korn (left), a former MIT graduate student, now at LBNL, measured b hadron masses for his thesis and his advisor, Christopher Paus, Professor at MIT.

[Result of the Week Archive](#)

Accelerator Update

July 11 - July 13

- During this 48 hour period Operations established one store that provided the experiments with approximately 18 hours and 15 minutes of luminosity
- LRF4 conditioning slow
- Pbar troubles continue
- TeV longitudinal damper problem

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

Announcements

"to strengthen regional collaboration in accelerator-based science." In particular, a strong focus of ACFA is the effort toward a linear collider and Asia's role in this effort.



[Shin-ichi Kurokawa](#)

The committee has published three formal statements regarding the linear collider, most recently on November 4, 2004, following the decision to base the design of the linear collider on "cold" technology. Although much of the work in Asia had been on "warm" technology, in that statement, ACFA lends support to the technology decision, as well as to the concept of developing a world-wide effort toward realizing the ILC.

[Read more](#)

[Linear Collider News Archive](#)

In the News

From *Spaceref.com*, July 11, 2005

A New Survey - SDSS-II will Map the Universe, the Milky Way and Dark Energy

Dr. Richard Kron, director of the Sloan Digital Sky Survey, announced a new undertaking that will complete the largest survey of the universe. This survey will add new partners and undertake new research missions, and will run through summer 2008.

Late last month the funding package for a new, three-year venture called the Sloan Digital Sky Survey II (SDSS-II) was completed, led by the Alfred P. Sloan Foundation of New York City, the National Science Foundation (NSF), the U.S. Department of Energy and the member

Recreation Office Sales Suspended

Due to a reduction in staff, the Recreation Office will temporarily suspend the sale of tickets, T-shirts and canoe rentals as of Friday, July 15 at noon until further notice. The suspended tickets are AMC Movie Tickets, Great America Tickets, and Renaissance Faire Tickets. All other programs will stay the same. Also, the Recreation Office will be closed Friday, July 15 at noon for training. If you have any questions you may contact the Recreation Office, x 2548.

Fermilab Arts Series

The Fermilab Arts Series will present Tom Paxton and Cheryl Wheeler on Saturday, July 16, 2005 at 8 p.m.

[more information](#)

Fermilab Film Series

The Fermilab Film Series will present Charulata on Friday, July 15 at 8:00 p.m. in Ramsey Auditorium.

[more information](#)

[Upcoming Activities](#)

institutions.

[Read more](#)