

Calendar

[Have a safe day!](#)

Thursday, Aug. 26

9:30 a.m. - 8:15 p.m.

[Hadron Collider Physics](#)

[Summer School](#) - One West

2:30 p.m.

[Theoretical Physics Seminar](#) -

Curia II

Speaker: Hsin-Chia Cheng,
University of California, Davis
Title: Invisible Particle Mass
Determinations at Hadron
Colliders

3:30 p.m.

DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

THERE WILL BE NO

ACCELERATOR PHYSICS

AND TECHNOLOGY

SEMINAR TODAY

Friday, Aug. 27

8 a.m. - 3 p.m.

[Hadron Collider Physics](#)

[Summer School](#) - One West

9 a.m.

[Presentations to the Physics](#)

[Advisory Committee](#) - Hornet's

Nest, WH-8XO; Satellite

Meeting Rooms: Black Hole

(WH2NW), Racetrack

(WH7XO), CDF Theatre, and

DZero Dog House.

3:30 p.m.

DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

4 p.m.

[Joint Experimental-Theoretical](#)

[Physics Seminar](#) - One West

Speakers: Alan Schwartz,

University of Cincinnati

Title: Studying B_s Decays in e^+e^-

Collisions at the Upsilon

(5S): Recent Results from Belle

Click here for [NALCAL](#),

a weekly calendar with

links to additional

information.

[Upcoming conferences](#)

Feature

Holmes passes baton, welcomes Henderson



Stuart Henderson (left) recently replaced Steve Holmes as the associate director for accelerators. Holmes is now the project manager for the proposed Project X.

Stuart Henderson, Fermilab's new associate director for accelerators, has hit the ground running. Henderson, who started at the laboratory on Aug. 16, has already attended two reviews and has spent the remainder of his time getting acquainted with the laboratory and its employees and users.

"I'm really excited to get started," Henderson said. "I'm working hard to get my hands around what is happening now."

Henderson is responsible for all accelerator operations and accelerator science and technology research and development. He also oversees construction and support for all new accelerator facilities. He replaces Steve Holmes in those responsibilities and as the direct line manager for the Accelerator Division, Technical Division and Accelerator Physics Center. While Henderson is eager to help make things happen at the laboratory, he feels that Holmes' shoes will be difficult to fill.

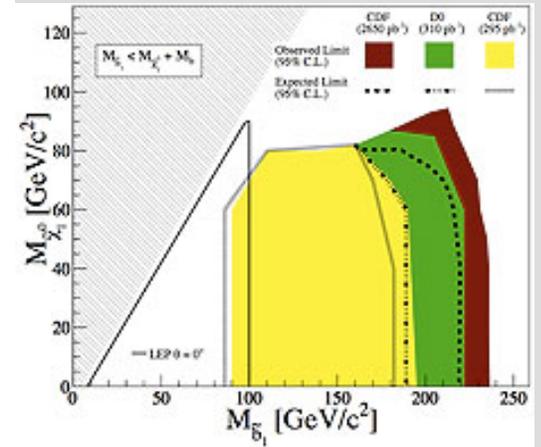
But Holmes thinks Henderson is the perfect person for the job.

"Stuart really brings a wealth of experience and knowledge to this role," Holmes said. "I really look forward to working with him to get Fermilab's future accelerator facilities off of the ground."

Henderson is former director of the Research Accelerator Division of Oak Ridge National Laboratory in Tennessee.

Result of the Week

When SUSY is all about beauty



The exclusion plane is shown as a function of sbottom (x-axis) and neutralino (y-axis) masses. The observed and expected upper limits from this analysis are compared to previous results from CDF, DZero and LEP. The hatched area indicates the kinematically prohibited region in the plane.

Scientists believe the Standard Model of particle physics must be a low-energy limit of a more general theory that accommodates open questions about the universe. Many of the possible extensions of the Standard Model include a new fundamental symmetry of nature, known as supersymmetry, which predicts the existence of a supersymmetric partner for each particle in the Standard Model. Physicists think that these new particles are much heavier than their Standard Model partners.

In some proposed SUSY models, neutralinos are the lightest symmetric particle. They are stable and neutral, and therefore constitute a valid dark matter candidate. In such a scenario, the supersymmetric partner of the bottom quark, called sbottom, decays into a bottom quark, sometimes called a beauty quark, and a neutralino.

CDF physicists have just published the results of a search for sbottom production based on the identification of bottom quarks in the final collision state together with large energy unbalance from undetected neutralinos. To estimate the huge amount of background coming from known Standard Model processes, the authors used a combination of state-of-the-art simulation techniques and sophisticated data-driven methods.

Campaigns

[Take Five](#)

[Tune IT Up](#)

H1N1 Flu

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

Weather



Sunny
76°/47°

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

Current Security Status

[Secon Level 3](#)

Wilson Hall Cafe

Thursday, Aug. 26
- Breakfast: Apple sticks
- Minnesota wild rice w/ chicken
- Philly-style cheese steak
- Tuna melt on nine-grain bread
- Smart cuisine: Italian meatloaf
- Chicken casserole
- Buffalo crispy chicken wrap
- Assorted sliced pizza
- Mandarin chicken

[Wilson Hall Cafe Menu](#)

Chez Leon

Thursday, Aug. 26
Dinner
- Closed

[Chez Leon Menu](#)

Call x3524 to make your reservation.

Archives

"I took this position because I am excited about all the opportunities, such as upgrading the existing accelerator complex and pursuing Project X, the Intensity Frontier, future colliders and advanced accelerator R&D and accelerator applications," Henderson said.

Holmes, who has now fully transitioned into his role as project manager for the proposed Project X, will dedicate his time to make that project a reality. He has served as acting project manager for Project X since August 2008. He hopes that the project will achieve CD-0, or mission need, in 2011.

-- *Rhianna Wisniewski*

In Brief

Special PAC meeting Friday

On Friday, Aug. 27, the Fermilab Physics Advisory Committee will convene to consider a three-year extension of Collider Run II. Run II is currently scheduled to continue through FY 2011. This is a special one-day meeting on the single topic. The regular fall meeting will take place Nov. 4-6.

The draft charge and agenda for Friday's meeting are available from the [PAC meetings web page](#).

This special meeting is unusual because several PAC members will participate remotely via videoconference. In order for this special session to be as effective as possible, the local PAC members and presenters will convene in the Hornets' Nest, a smaller room than usual. Employees and users can attend the meeting's open sessions by going to one of four satellite conference rooms set up for this purpose: the Black Hole (WH-2NW), the Racetrack (WH7-crossover), the Theatre at the CDF Assembly Building, or the Dog House conference room at DZero.

Special Announcement

School back in session, drive carefully

School is back in session in most communities, including Warrenville and Batavia. A school zone, with reduced speed limits during school hours, is located outside the east gate on Batavia Road. Please pay attention to school crossings and posted speed limits.

When CDF experimentalists compared the background predictions to the number of events observed in data, they found no evidence of a SUSY signal.

The hunt continues, but SUSY has fewer places to hide.

[Learn more.](#)

-- edited by *Andy Beretvas*



The above individuals contributed to this analysis. From left to right: Gianluca De Lorenzo, Mario Martinez and Monica D'Onofrio, all from Barcelona, Spain.

Accelerator Update

Aug. 23-25

- Four stores provided ~30.5 hours of luminosity
- Linac suffered from RF problems
- MI LCW mixing valve fixed
- CDF and DZero accessed on Monday and Tuesday

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

Announcements

Latest Announcements

[CNAS, Sunflower and Procard unavailable - Saturday, Aug. 28](#)

[Toastmasters - Sept. 2](#)

[Workshop on Accelerator-Driven Sub-Critical Systems & Thorium Utilization](#)

[Ask HR: Professional Development at DZero - Aug. 26](#)

[Bod Squad Muscle Toning begins Sept. 2](#)

[Card stamping club and](#)

[Fermilab Today](#)[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/Send comments and suggestions to:
today@fnal.govVisit the Fermilab [home page](#)[Unsubscribe](#) from *Fermilab Today***In the News****Big science feels the pinch in Europe**From **Nature News**, Aug. 24, 2010

Long insulated by multi-year budgets and treaties, Europe's multinational research organizations and the glittering scientific projects they fund are finally feeling the financial pain of their member states. This week, representatives from the 20 nations involved in CERN, Europe's particle-physics laboratory near Geneva, Switzerland, meet to discuss budget cuts for the laboratory over the next five years. In the next few months, Nature has learned, other organizations are facing decisions on whether to delay new projects, put upgrades on hold or make cuts in an attempt to appease their struggling member states.

"We are all very worried about the financial situation," says Francesco Sette, director of the European Synchrotron Radiation Facility (ESRF) in Grenoble, France.

[Read more](#)[scrapbooking club survey](#)[Sign up for fall Science Adventures](#)[Fermilab Procard System - New link starting Monday, Aug. 30](#)[Looking for league bowlers](#)[Bristol Renaissance Faire discount](#)[Regal Movie Theater discount tickets available](#)[Fermilab Blood Drive Aug. 30 and 31 \(Walk in only\)](#)[Scottish Country Dancing in Ramsey Auditorium through Aug. 31](#)[International Folk Dancing in Ramsey Auditorium through Sept. 2](#)[Fermilab Lecture Series presents A Croc Odyssey: Speedy Gallopers with a Taste for Dinosaur](#)[Gizmo Guys - Fermilab Arts Series - Sept. 25](#)[Submit an announcement](#)