

Calendar

[Have a safe day!](#)

Thursday, June 17

2:30 p.m.

[Theoretical Physics Seminar](#) -

Curia II

Speaker: Arvind Rajaraman,
University of California, Irvine
Title: Searching for the Fourth
Generation at LEP, Tevatron
and the LHC

3:30 p.m.

DIRECTOR'S COFFEE
BREAK - 2nd Flr X-Over

THERE WILL BE NO
ACCELERATOR PHYSICS
AND TECHNOLOGY
SEMINAR TODAY

Friday, June 18

3:30 p.m.

DIRECTOR'S COFFEE
BREAK - 2nd Flr X-Over

4 p.m.

[Joint Experimental-Theoretical Physics Seminar](#) - One West

Speaker: Jen Pursley,
University of Wisconsin will
present the result

Title: CDF Update of our High
Mass $H \rightarrow WW$ search for
Standard Model Higgs with 6
inverse femtobarns

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

[Upcoming conferences](#)

Campaigns

[Take Five](#)

[Tune IT Up](#)

H1N1 Flu

Feature

Luz Jaquez - a guiding force for Particle Physics Division



Luz Jaquez

Luz Jaquez works tirelessly to ensure the professional needs of the Particle Physics Division's 400 employees are taken care of.

Jaquez, division administrator for the PPD, interfaces with scientists, the Travel

Office and Human Resources on behalf of the division. Managing such a fluid group, with its constant influx and outflow of users, requires cheerful patience and an ability to handle all the variables that come with the territory. Jaquez has both in spades.

"Every week is a crisis around here, if not every day," said Mike Lindgren, PPD's acting division head. "The people who are really great are the ones who make the difficult seem routine. Luz just handles everything. She's unflappable."

Born and raised in Chicago, Jaquez first came to Fermilab in June 1991 as an on-call administrative employee working in the Computing Division. Days after she was hired, she was asked to work full-time for the Particle Physics Division (then called the Research Division). While employed as an administrative support assistant, she enrolled in college-level office administration and computer courses.

Her initiative paid off: Two years ago she was promoted to division administrator.

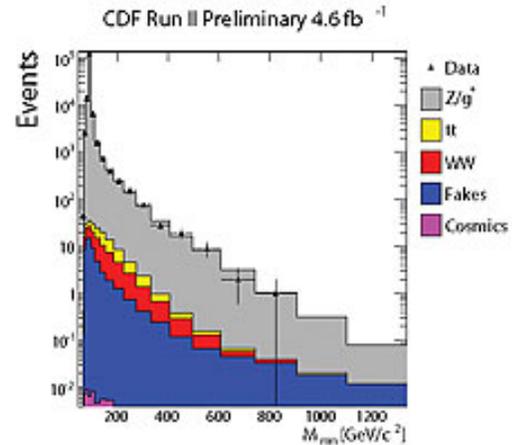
The gratification she derives from both assisting people over daily hurdles and seeing a task to its conclusion drives her as she operates as a hub in the PPD, expediting payroll, performance reviews and visas and passports.

"I just like helping people, and I figured an administrator is the best position to be in," Jaquez said. "It's very rewarding when a project is completed or a problem solved."

As to the crises that crop up from time to time,

Result of the Week

CDF prime-time



The mass made from the pair of muons. If the Z' existed and were lighter than 1071 GeV, there would have been some extra data events in this plot. So, the data show at a 95 percent confidence level that the Z' does not exist with a mass less than 1071 GeV.

Many particle physics discoveries reveal heavier versions of well-known particles, such as the top quark or earlier discoveries of the heavier second and third generations (or copies) of the quarks and leptons. So, it is natural to ask whether there are also heavy versions of the gauge bosons (W and the Z). Physicists at CDF have performed a new search for a heavy version of the [Z boson](#), called a Z' (pronounced Z-prime) in events with two muons.

Using a technique that includes information about the reconstructed Z' mass (see the figure) as well as angular information from the muons and the quality of the muon tracks measured in the detector, CDF scientists were able to squeeze 20 percent greater sensitivity out of its data compared to the previous versions of the analysis that focused on just the mass. The data did not show any evidence of a Z' particle but allowed scientists to place a strong limit on the mass it may have ($M_{Z'} > 1071$ GeV).

-- edited by Craig Group

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

Weather



Sunny
86°/68°

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

[Current Security Status](#)

[Secon Level 3](#)

Wilson Hall Cafe

Thursday, June 17

- Breakfast: Apple sticks
- Southwestern chicken tortilla
- Philly-style cheese steak
- *Garlic herb-roasted pork
- Mardi Gras jambalaya
- *Southwestern turkey wrap
- Assorted sliced pizza
- *Marinated grilled chicken Caesar salads

*Carb restricted alternative

[Wilson Hall Cafe Menu](#)

Chez Leon

Thursday, June 17

Dinner
- BOOKED

Wednesday, June 23

- Lunch
- 40-clove garlic chicken
 - Glazed baby carrots
 - Lemon rice pilaf
 - Banana cream puff w/ bittersweet chocolate sauce

[Chez Leon Menu](#)

Call x3524 to make your reservation.

Archives

Jaquez said, "Yes, there are problems; yes, there are emergencies. But there's always a solution to a problem. That's the way I see it."

Jaquez makes sure to balance her career with a rich home life. When she isn't scrapbooking and putting together family albums, she joins her husband and three sons in cheering on the Cubs at Wrigley Field.

-- Leah Hesla

From the Computing Division

Phishing for summer students

To the newest group of summer students - welcome! We hope you enjoy your summer at the laboratory and we'd like to help make sure you can spend your summer enjoying your projects at Fermilab and not working through computer security issues.

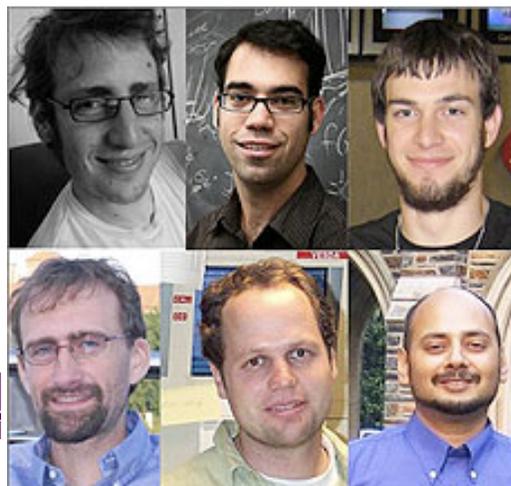
Students, please be careful when using your computer account. In particular, since you are not familiar with how computer accounts are handled at the laboratory and don't know what kind of messages are legitimate, it is easy to be fooled by phishing e-mails.

Remember, you should never reveal your passwords to anyone at the laboratory for any reason: not to your supervisor, your system manager or even the computer security team. The e-mail message below was widely circulated at the laboratory this week by someone trying to trick people into giving up their account information. This message is NOT legitimate:

From: FNAL GOV WEBMAIL SECURITY
Date: June 15, 2010 2:14:19 AM CDT
To: Multiple recipients
Subject: TERMINATION OF YOUR FNAL GOV WEBMAIL ACCOUNT

TERMINATION OF YOUR FNAL GOV WEBMAIL ACCOUNT

We are currently carrying out an upgrade on our system due to the fact that it has come to our notice that one or more of our subscribers are introducing a very strong virus into our system and it is affecting our network. We are trying to find out the specific person. For this reason all subscribers are to provide their USER NAME AND PASSWORD for us to verify and have them cleared against this virus. Failure to comply will lead to the termination of your Account in the next 48 hours. Information to send.
EMAIL ADDRESS:



The CDF scientists who contributed to the Z' analysis, pictured clockwise: Daniel Whiteson, UC Irvine; Kyle Cranmer, NYU; Edward Quinlan, UC Irvine; Ashutosh Kotwal, Duke; Oliver Stelzer-Chilton, TRIUMF; and Chris Hays, Oxford.

In the News

Anti-neutrino's odd behaviour points to new physics

From *New Scientist*, June 15, 2010

Now you see it, now you don't: that's neutrinos for you. The astounding ability of these subatomic particles to morph from one type to another may have created another crack in our understanding of nature.

It may point the way to new physics that could tell us why the universe appears to be made only of matter and not antimatter too.

Physicists on the Main Injector Neutrino Oscillation Search (MINOS) experiment at Fermilab in Batavia, Illinois, were studying a phenomenon called neutrino oscillation when they found a discrepancy between neutrinos and anti-neutrinos that cannot be explained by standard model physics.

[Read more](#)

Accelerator Update

June 14-16

- Four stores provided ~31.75 hours of luminosity
- FESS resolved MiniBooNE's air conditioning problems
- Operators aborted store 7894
- MI had main bus power supply problems

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

[Fermilab Today](#)[Result of the Week](#)[Safety Tip of the Week](#)[CMS Result of the Month](#)[User University Profiles](#)[ILC NewsLine](#)**Info****Fermilab Today**

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PASSWORD:

Hoping to serve you better. Sincerely, FNAL
GOV WEBMAIL Support

If you receive any e-mail at the laboratory that you have doubts about, show it to your supervisor and ask him or her for help. In general, messages that come from the laboratory include a telephone number you can call to verify the e-mail's authenticity.

Each computer user at Fermilab is our first line of defense against phishing exploits, so please be careful and enjoy your summer here at the laboratory.

-- Mark Leininger, Fermilab's computer security manager

In the News**Fermilab particle physicists wonder: Are there 5 Higgs bosons?**

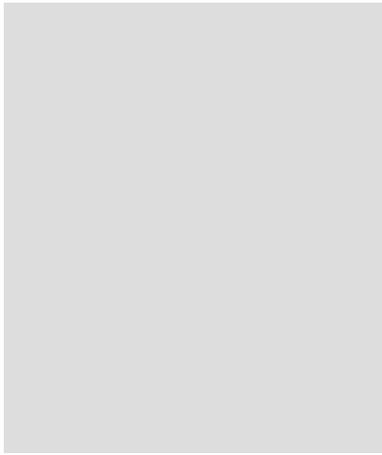
From **80 beats, a Discover magazine blog**, June 15, 2010

If the Higgs boson is the "God Particle," then some particle physicists just turned polytheistic. To explain a recent experiment, they wonder if five Higgs bosons give our universe mass instead of one.

Last month, we discussed a curious experiment at the Tevatron particle accelerator at Fermilab near Chicago. Colliding protons and antiprotons, the Tevatron's DZero group found more matter than antimatter.

This agrees well with common sense—if the Big Bang had really churned out equal amounts of matter and antimatter, the particles would have annihilated each other, and we wouldn't be here. Unfortunately, the physics for this matter favoritism doesn't make sense.

[Read more](#)**Announcements****Latest Announcements**[Free Webinar on "Retirement Planning for Women," June 30](#)[Blood drive - new sign up link](#)[Lecture Series: Intermediate/Advanced topics in C++ programming](#)[Kyuki-Do Martial Arts classes begin June 21](#)[Submit FTL timecards by Friday, June 18](#)[English country dancing June 20](#)[10,000 Steps-a-Day heart rate watch winner](#)[Time to complete accomplishment reports](#)[Attention Fermilab employees with 30 or more years of service](#)[Argentine Tango, June 16 - 30](#)[SciTech summer camps start today](#)[Drug Sniffing Dogs at Users' Center - June 18](#)[Deadline for The University of Chicago Tuition Remission Program - June 25](#)[Adult water aerobics - Mondays](#)[Adult swim lessons - Mondays](#)[Learn about green science in Nature's Power Lab, a Science Adventure](#)[Bike to Work Week - June 12-18](#)[Blood drive - June 21 and 22](#)[Ask HR: 15th floor visits FESS - Site 38 on Tuesday, June 22](#)[10,000 Steps-a-Day walking program](#)[Fermilab Arts Series presents Corky Siegel and Chamber Blues - June 26](#)[Sign up for summer Science Adventures classes](#)



[Introduction to LabVIEW course - July 13](#)

[Embedded Design with LabVIEW FPGA and CompactRIO seminar - July 13](#)

[Interaction Management Coaching Forum - July 27](#)

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