

Calendar

Tuesday, March 10

10:30 p.m.

[Research Technology Seminar](#)

- Curia II

Speaker: James W. Beletic,
Teledyne Imaging Sensors
Title: Imaging Sensor
Technologies for Astronomy,
Planetary Exploration and
Earth Observation

2 p.m.

[Special Joint Experimental-
Theoretical Physics Seminar](#)

(NOTE DATE & TIME)- One
West

Speaker: Cecilia Gerber,
University of Illinois, Chicago
Title: Observation of Single
Top at DZero

Speaker: Rainer Wallny,
University of California, Los
Angeles

Title: Observation of Single
Top at CDF

3:30 p.m.

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

4 p.m.

[Accelerator Physics and
Technology Seminar](#) - One
West

Speaker: Hitoshi Hayano, KEK
Title: Basic R&D for High
Gradient ILC SC Cavity in KEK-
STF

Wednesday, March 11

3:30 p.m.

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

4 p.m.

[Fermilab Colloquium](#) - One
West

Speaker: R. Sekhar Chivukula,
Michigan State University
Title: The Symmetries of QCD

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

Weather

From symmetrybreaking

Lecturer gives glimpse of cosmic ray research



[A surface detector at Pierre Auger Observatory in Malargue, Argentina.](#)

There's more than one way to study particle physics. You can use huge man-made accelerators such as the Tevatron. Or you can rely on nature to supply you with its tiniest constituents for research.

Tapping nature's supply of cosmic rays is one of the oldest forms of particle physics research.

The Pierre Auger Observatory gives it a modern twist with cutting-edge technology, including the world's largest array of detectors and solar panels powering them used in an experiment.

Angela Olinto said the chance to find out about the birth of the universe as well as work in a field with a long history drew her to the study of cosmic rays and the Pierre Auger collaboration.

"The birth of particle physics is closely tied to cosmic rays," she says.

Olinto, a University of Chicago Astronomy and Astrophysics professor, captivated an audience of about 500 people at Fermilab Feb. 27 for a lecture on the Pierre Auger Observatory, the world's largest cosmic-ray experiment, based in Argentina.

Cosmic rays may provide a window into exotic, undiscovered particles or explain dark matter, the mysterious, invisible force thought to influence the spinning of stars and hold galaxies together.

Director's Corner

This week's Director's Corner will appear in Wednesday's issue of Fermilab Today.

Accelerator Update

March 6-9

- Two stores provided ~33 hours of luminosity
- Accelerators recovered from Kautz Rd power glitch
- Linac resolves quadrupole power supply problems
- Linac switched to I- Source
- Lightning strike trips off equipment and loss of stash
- Main contactor for TeV power supply repaired
- Pbar fixes optical receiver at AP50
- TeV quench during shot setup

*The integrated luminosity for 3/2/09 to 3/9/09 was 44.46 inverse pico barns

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

Announcements

Latest Announcements

[Dandia/Garba dance evening on March 28](#)

[WDRS researches Transit Benefit Program](#)

[Coed softball season begins May 13](#)

[Harlem Globetrotter employee discount](#)

[Have a safe day!](#)

[Free Step Aerobics class in March](#)

[Discount tickets to "1964"...Beatles Tribute - June 6](#)

[Discount tickets to "Dora the Explorer Live"- March 26-29](#)

[Blackberry Oaks Golf League](#)

[Sustainable Energy Club](#)

[New electronic org chart](#)

[Muscle Toning classes](#)

 **Heavy rain**
62°/20°

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

[Current Security Status](#)

[Secon Level 3](#)

[Wilson Hall Cafe](#)

Tuesday, March 10

- Golden broccoli & cheese
- Southern style fish sandwich
- Coconut crusted tilapia
- Smart cuisine: chicken w/ arthichokes and mushrooms
- La grande sandwich
- Assorted sliced pizza
- Chicken fajitas

[Wilson Hall Cafe Menu](#)

[Chez Leon](#)

**Wednesday, March 11
Lunch**

- Chicken breast stuffed w/sun-dried tomatoes & goat cheese with a shallot thyme sauce
- Orzo
- Carmel apple shortcake

**Thursday, March 12
Dinner**

- Field greens w/ cranberries, bleu cheese and walnuts
- Citrus glazed mahi mahi
- Cashew basmati rice
- Sautéed pea pod & water chestnuts
- Lemon meringue ice cream pie in toasted pecan crust

[Chez Leon Menu](#)

Call x3524 to make your reservation.

[Archives](#)

[Fermilab Today](#)

[Result of the Week](#)

[Safety Tip of the Week](#)

[ILC NewsLine](#)

Ultimately scientists want to know the origin of cosmic rays. The Pierre Auger Observatory project, which includes 700 scientists, 70 institutions and 18 countries, in 2007, announced that active galactic nuclei are the most likely source of the high-energy cosmic rays. These massive black holes swallow gas, dust and matter from galaxies and spew out particles and energy.

[Read more](#)

-- *Kristine Crane*

[In the News](#)

Taking important scientific research to the general public

From *The Johns Hopkins University Gazette*, March 9, 2009

Scientists are adept at talking about their research with peers. But ask them to explain what they do (and why it's important) to the cashier at the local grocery store or the mother of four who lives across the street and they admit to feeling, well, less than competent.

"The truth is that some of us are better than others at talking to the general public about our research," said Jonathan A. Bagger, vice provost for graduate and postdoctoral programs and special projects and a professor in the Henry A. Rowland Department of Physics and Astronomy at Johns Hopkins' Krieger School of Arts and Sciences. "Being able to communicate is important, and it's something we need to work on, for sure."

That's why Bagger was among a handful of Johns Hopkins scientists and graduate students who recently collaborated with curators at the Maryland Science Center to create two exhibits and a demonstration that elucidate their research to the general public.

[Read more](#)

[Kyuki Do classes March 30](#)

[Barnstromers Delta Dart night March 11](#)

[Fermilab Arts Series presents Solas March 14](#)

[Barn Dance March 15](#)

[Altium Designer Lunch and Learn Seminar March 17](#)

[Excel 2007 Pivot Tables class March 18](#)

[PowerPoint 2007: Intro class March 19](#)

[Bulgarian Dance Workshop, March 19](#)

[URA visiting Scholars applications due March 20](#)

[NALWO Adler Planetarium Trip March 21](#)

[Child Care program March 24](#)

[Publisher 2007: Intro class April 1](#)

[Conflict Management & Negotiation Skills class April 1](#)

[English Country Dancing, April 5](#)

[Outlook 2007 New Features class April 8](#)

[SciTech Summer Camps](#)

[Barn Dance March 8](#)

[Arianna String Quartet performs in Gallery Chamber Series - March 8](#)

[On-Site Housing - Summer 2009 - Deadline - March 9](#)

[Phillips Park Golf League](#)

[Additional Activities](#)

[Submit an announcement](#)

Info

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