

Tuesday, May 17

Chicken and Rice Soup \$1.90
Mushroom Swiss Burger \$4.75
Baked Meatloaf \$3.75
Parmesan Baked Fish \$3.75
Southwestern Turkey Wrap \$4.75
Ham and Pastrami Calzones \$3.25
Burritos w/ Chips and Queso \$4.75

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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The panel's charge, from the National Academies' Board on Physics and Astronomy, involves prioritizing scientific questions, and recommending a 15-year implementation plan with realistic, ordered priorities. In its two-year study, the panel has met previously in Washington DC (Nov. 30, 2004) and at SLAC (Jan. 31, 2005). The next meeting will be at Cornell University's Laboratory



Fermilab Director Mike Witherell at yesterday's EPP 2010 meeting.

for Experimental Particle Physics (Aug. 2).

Fermilab Director Michael Witherell emphasized that the field of particle physics sees "a scientific revolution in the making," with collider physics able to attack all the

major themes in the challenge ahead: the quantum vacuum, the Higgs search, supersymmetry, and extra dimensions. Tight budgets have led to optimizing the operating program, but US high-energy physics "currently provides outstanding science for the investment."

[read more](#)

-- Mike Perricone

Accelerator Update

contributions to science," said Santoro, a fellow of the American Physical Society. "The congratulations go to the whole group."

Each year the state of Rio de Janeiro recognizes people for their contributions in eleven categories--including science, architecture and music--with Golden Dolphin awards, and many famous Brazilian artists have been honored. The award winners, one in each category, are selected from nominees from across the country. In 1977, Santoro's brother, a composer, won a Golden Dolphin award.

Santoro and five Brazilian colleagues first came to Fermilab in 1984, receiving support from Fermilab director Leon Lederman. The group worked on experiment E691 and joined the



Alberto Santoro

DZero collaboration, participating in the DZero experiment from its beginning. Today, about 20 Brazilians from six institutions collaborate with DZero and Fermilab. They are involved in data analysis, software and hardware development. For Run II, Brazilian engineers and scientists developed and built the Forward Proton Detector ("Roman Pots").

--Kurt Riesselmann

Announcements

May 13 - May 16

- During this 72 hour period Operations established two stores that provided the experiments with approximately 52 hours and 1 minute of luminosity.
- TeV quenches three times - one store lost.
- I- Source problems
- The Booster Chopper trips

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

In the News

From A Scribe, May 16, 2005 Berkeley Lab Technology Dramatically Speeds Up Searches of Large Databases

In the world of physics, one of the most elusive events is the creation and detection of "quark-gluon plasma," the theorized atomic outcome of the "Big Bang" which could provide insight into the origins of the universe. By using experiments that involve millions of particle collisions, researchers hope to find unambiguous evidence of quark-gluon plasma.

Scientists describe such a collision with unambiguous evidence as a "rare event," which may be an understatement. For example, out of hundreds of millions of particle collisions in one experiment, an analysis found that only 80 collisions or "events" merited further study as scientists search for evidence of "jet quenching," a phenomenon that may indicate the existence of quark-gluon plasma. Other research into such exotic physics phenomena as "strangelets" needs to go through similar search processes.

Employee Health & Fitness Day

Employee Health & Fitness Day will be on May 18 from 11:30-1:30 on Ring Road beginning at A1. Walk, run, rollerblade, or bike your way around the ring. This year's theme is "Laughter is the Best Medicine." A table will be set up at A1 where participants may sign-in, pick up their game ticket, and a bottle of water. Stations will be set up around the ring where you will find games to play, prizes to win and cheers of encouragement. At the end stop off at the prize table and pick a ticket to see if you are a winner. The rain date will be May 19.

[more information](#)

Weight Watchers Turnaround

Join Weight Watchers At Work Program for a Free Open House meeting this Tuesday, May 24 at 12:00 p.m., WH15NW. Register and prepay on Tuesday, May 24, 2005. For more information please contact Bernie Dugan at x3591.

Scottish Country Dancing

The Scottish Country Dancers will meet Tuesday, May 17, at Kuhn Barn on the Fermilab site. Instruction begins at 7:30 p.m. and newcomers are always welcome. Most dances are fully taught and walked through, and you do not need to come with a partner. Info at 630-840-8194 or 630-584-0825 or folkdance@fnal.gov.

Fermi Days at Great America in July

The Recreation Office has designated July 9, 10, 23 & 24 as Fermi Days at Great America. Purchase tickets in the Recreation Office for only \$25.00 and enjoy one of these days at Great America with your friends and family. Price

Compounding the complexity of the search is the fact that the data files are on mass storage systems around the world, so locating and extracting these scientific needles from a virtual haystack of information would be very time-consuming and labor-intensive. For example, the brute-force approach of reading every record of the petabytes of distributed data from the Relativistic Heavy Ion Collider experiment called STAR at Brookhaven National Laboratory could take weeks at a time. The key to speeding up the searching process is to quickly locate those interesting events while ignoring millions of others so the important data can be extracted for further analysis.

[Read more](#)

includes unlimited rides and shows for a one-day event. This ticket also includes the colossal new water park, Hurricane Harbor, next to Six Flags which opens this spring. Tickets can be purchased in the Recreation Office beginning in June.

[Upcoming Activities](#)