

Calendar

Friday, April 28

3:30 p.m. DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

4:00 p.m. Joint Experimental Theoretical Physics Seminar - 1 West

Speaker: K. Gibson, Carnegie-Mellon University

Title: Measurement of Relative Fragmentation Fractions of B Hadrons at CDF

8:00 p.m. Fermilab International Film Society Presents - *The Crimson Pirate* in the auditorium

Monday, May 1

11:00 a.m. Academic Lecture Series - Curia II

Speaker: S. Dodelson, Fermilab

Title: The Clumpy Universe - Course 6b (3rd Lecture)

2:30 p.m. Particle Astrophysics Seminar - Curia II

Speaker: G. Steigman, Ohio State University

Title: Schrammfest: BBN: Successes and Challenges

3:30 p.m. DIRECTOR'S COFFEE

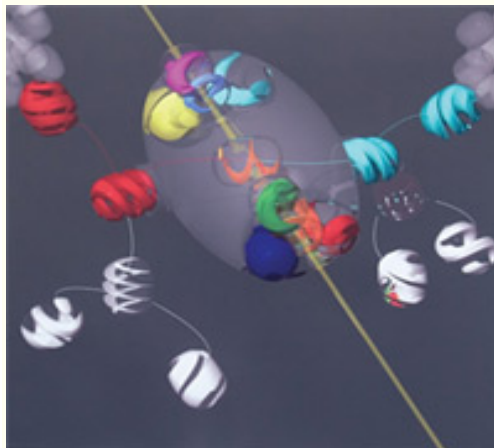
BREAK - 2nd Flr X-Over

4:00 p.m. All Experimenters' Meeting - Curia II Special Topics: Recent Activity at the Test Beam; NuMI Horn Repair

For links to events, click [here](#).

Weather

The particle physics report that captured national headlines: EPP2010



EPP2010 Cover Image: Industrial designer Jan-Henrik Anderson, working with particle physicists, portrays the collision of a proton and an anti-proton in the Fermilab Tevatron accelerator. (Courtesy of J-H Anderson)

At a time when the Large Hadron Collider is scheduled to start up in 2007 and the Tevatron at Fermilab will shut down by the end of this decade, the particle physics program in the United States is at a crossroads. Should the United States fold its cards and determine that the field of particle physics has lost its steam? Or should the United States step up to the plate and prepare to submit a bid to host the next-generation particle accelerator?

These are the questions that the National Academies' National Research Council charged the Committee on Elementary Particle Physics in the 21st century (EPP2010) to answer, asking the 22-member panel to lay out a 15-year plan. Yesterday on 26 April in the National Academies' Keck Center in Washington D.C., EPP2010 launched their much-

2006 CTEQ Summer School Set for July 1-9 in Rhodes



The Colossus of Rhodes, completed in 282 BC, stood for only 56 years until felled by an earthquake in 226 BC. It stood about 33 m. (110 ft.) high, atop a 50-foot stone base, and was constructed of brass plates over an iron framework. Current estimates place its weight at 200 tons or more, similar to the Statue of Liberty. Though often depicted as straddling the harbor, the giant is described in historical records as a classic Greek configuration, shielding its eyes as it looked toward the sun. This image is by Salvador Dali. (Click for larger version.)

Partly Cloudy **69°/45°**[Extended Forecast](#)[Weather at Fermilab](#)**Current Security Status**[Secou Level 3](#)**Wilson Hall Cafe****Friday, April 28**

- Old Fashioned Ham & Bean
- Black & Blue Cheese Burger
- Summer Herb Cod
- Stuffed Manicotti
- Roasted Veggie & Provolone Panini
- Assorted Pizza Slice
- Vegetarian Stir Fry

[Upcoming Menu](#)**Chez Leon****Wednesday, May 1****Lunch**

- Closed

Thursday, May 4**Dinner**

- Crab Cakes
- Stuffed Flank Steaks
- Orzo with Arugula, Pine Nuts and Parmesan
- Profiteroles with Strawberries and Chocolate Sauce

[Chez Leon Menu](#)

Call x4598 to make your reservation.

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anticipated report, "Revealing the Hidden Nature of Space and Time – Charting the Course for Elementary Particle Physics."

Outlined in priority order as designated by EPP2010, the report recommends that the U.S.:

1. Fully exploit the opportunities afforded by the construction of the Large Hadron Collider at CERN.
2. Plan and initiate a comprehensive program to become the world-leading center for research and development on the science and technology of a linear collider, and do what is necessary to be able to mount a compelling bid to build the proposed International Linear Collider on U.S. soil.
3. Expand the program in particle astrophysics and pursue an international coordinated, staged program in neutrino physics.

At the launch, EPP2010 Chair Harold Shapiro described how the committee reached their recommendations for the future of particle physics in the United States. "We began our journey by trying to understand if particle physics remained compelling," Shapiro said. "Was it going on to bigger and better things or had it run out of steam? We came to the conclusion that this might be the most exciting moment in a generation. Exploring the Terascale and having the technology to do it is more compelling than ever."

[read more...](#)*--Elizabeth Clements***News stories about this report:**[The New York Times](#)[Physorg.com](#)[Nature](#)

The 2006 CTEQ Summer School on QCD Analysis and Phenomenology will convene July 1-9 in Rhodes, Greece, where the legendary Colossus once rose above the harbor. This 13th School will again concentrate on Quantum Chromodynamics as it is actually applied to precision electroweak physics and new physics searches in current Tevatron experiments and the upcoming LHC program.

The unique daily CTEQ School schedule consists of two hours of lectures in the morning and two more in the afternoon. Students and lecturers dine together in extended lunch and dinner breaks. An evening "recitation" of 1-to-2 hours offers students the opportunity to ask detailed questions they might be reluctant to ask during lectures. The concluding "nightcap" allows all participants, lecturers and students, to mix in a relaxed setting and continue discussions one-on-one or in small groups.

"From the very first CTEQ School in 1992," says co-organizer Jorge Morfin of Fermilab, "we have designed the summer schools to be a unique opportunity for young high energy physicists to meet the experts in the field, and to immerse themselves in the fundamental theory and experimental applications of QCD."

The schools are noted for their choice of topics striking a balance between the underlying physics and practical applications in current and near-future experiments. For the 2006 school, in addition to the usual focused introduction to QCD and comparisons to Tevatron results, several courses will review the expected physics, signatures and tools

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Committee Members to Speak at Fermilab May 12

The EPP2010 report made headlines on Thursday. What does it say about the future of Fermilab? Find out more on May 12, when EPP2010 Committee member Chuck Shank and Committee co-chair Sally Dawson come to speak to the Fermilab community. They will discuss the report at a 1:30 p.m. meeting in the Ramsey Auditorium. Everyone at Fermilab is invited to attend.

Photo of the Day



PPD's Sue Schultz planted a tree at Fermilab during yesterday's site-wide Earth Day/Arbor Day [celebration](#). (Click image for larger version.)

In the News

From *Science*, April 28, 2006: Linear Collider Gains Friends

What do an economist, a biologist, and a science policy expert have in common? As members of a recent National Research Council (NRC) committee on particle physics, they all think the United States should spend between \$300 million and \$500 million total over the

needed for the analysis in preparation for the start of the LHC. An extended introduction to New Physics will include finding the Higgs, and physics beyond the Standard Model. An extended course on Neutrino Physics will also be included.

The application deadline is May 15, 2006, but early admission for qualified candidates has been initiated to help with air travel arrangements. Application procedures and additional information are available [here](#).

--Mike Perricone

Announcements

Power Outage

Two power outages will occur next Monday, May 1. The first outage will be from 7:00 a.m. to 7:30 a.m. and will affect everything except the Village and the Main Injector. (Note that this outage includes Wilson Hall and the experiments.) Then, from 8:00 a.m. to 8:30 a.m. on the same day, a second outage will take power from the Main Injector.

Batavia Road entrance to close for renovation

The Batavia Road entrance will be closed for renovation, tentatively scheduled for May 9. The project will take approximately 14 days. During this time, the City of Warrenville will be repaving roadways near Route 59 and Batavia Road. Delays are expected to continue until early June, even after the entrance will have re-opened. Pine and Wilson Street entrances should be used during this time. Note: the bike path will also be closed.

Employee Assistance Program

next 5 years laying the groundwork for the proposed International Linear Collider (ILC) with the goal of hosting the multibillion-dollar machine. Five years ago, U.S. particle physicists designated the ILC as their future priority, and this week the NRC panel, drawn from various fields, endorsed that vision in a report requested by the Department of Energy (DOE) and the National Science Foundation.

[Read More](#)

As of May 1, 2006, VMC Behavioral Healthcare Services will be administering Fermilab's Employee Assistance Program (EAP). This valuable benefit offers confidential and professional referral services to you and your immediate family members for personal and work related concerns. If you or a family member is experiencing a personal challenge, do not hesitate to contact the Employee Assistance Program at 1-800-843-1327. More information can be found [here](#).

Professional Development

New classes are always being added to the professional development schedule. For the most up-to-date course offerings, go to [the web page](#).

New [classified ads](#) have been posted on Fermilab Today.

[Upcoming Activities](#)