

Calendar

Friday, September 24

3:30 p.m. Wine & Cheese - 2nd Flr X-Over

4:00 p.m. Joint Experimental Theoretical Physics Seminar - 1 West
Speakers: S. Holmes and S. Mishra, Fermilab

Title: Linear Collider R&D: Fermilab Plans

8:00 p.m. Fermilab Film Series - Auditorium

Title: O Brother, Where Art Thou?

Tickets: \$4.00

Saturday, September 25

8:00 p.m. Fermilab Arts Series - Auditorium

Title: Dr. Ralph Stanley & The Clinch Mountain Boys

Monday, September 27

2:30 Theoretical Astrophysics Seminar - Curia II

Speaker: E. Kolb, Fermilab

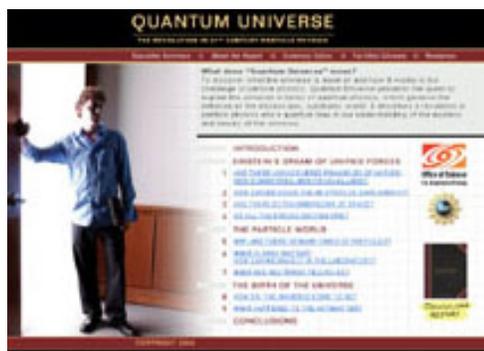
Title: The Effect of Inhomogeneities on the Expansion Rate of the Universe

3:30 p.m. Director's Coffee Break - 2nd Flr X-Over

4:00 p.m. All Experimenters' Meeting - Curia II

Wilson Hall Cafe

New Quantum Universe Web Site



The homepage for the new Quantum Universe Web site. (Click on image for larger version.)

Washington, D.C.-- Members of the High Energy Physics Advisory Panel to the Department of Energy and the National Science Foundation, meeting in Washington, D.C. today (September 24), announced the launch of the [Quantum Universe Web site](#). Along with HEPAP's recently published Quantum Universe report, the new site describes the quest to explain the universe in terms of quantum physics, which governs the behavior of the microscopic, subatomic world.

In response to a charge from DOE's Office of Science and NSF to provide "a clear picture of the connected, complementary experimental approaches to the truly exciting scientific questions of our time," the Web site presents nine fundamental questions about the universe. Answering them, say the Web site and the report, will lead to "a revolution in particle physics and a quantum leap in our understanding of the mystery and beauty of the universe."

[read more](#)

What's Up with the Linear Collider?

The sixteenth in a series of Fermilab Today stories on the International Linear Collider. The entire series is [available online](#).

ILC Plans Offered With Wine & Cheese



Shekhar Mishra (right) examines ILC work at the Industrial Center Building with (from right) Tug Arkan, Harry Carter, and Technical Division head Bob Kephart. (Click on image for larger version.)

Today's Wine & Cheese talk, at 4 p.m. in One West, offers a direct line on Fermilab's future.

Shekhar Mishra, Head of Fermilab Efforts for the International Linear Collider, and Steve Holmes, Associate Director for Accelerators, will offer presentations on "Linear Collider R&D: Fermilab Plans."

"Fermilab is very serious about bidding to host the ILC," said Mishra. "There is

already a lot of activity going on at the lab in linear collider R&D, and there is much more to come."

In his Colloquium presentation last week, Fermilab



Friday, September 24

Beef Pepper Pot

Buffalo Chicken Wings \$4.75

Cajun Breaded Catfish \$3.75

Spaghetti with Meat Sauce \$3.75

Honey Mustard Ham & Swiss Panini

\$4.75

Double Stuffed Pizza \$3.25

Spicy Marinated Flank Steak \$4.75

[Wilson Hall Cafe Menu](#)

[Chez Leon](#)

Weather



Chance Showers **80°/50°**

[Extended Forecast](#)

[Weather at Fermilab](#)

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KEK Physicists Visit Fermilab



(Click on image for larger version.)

A group of physicists from KEK visited Fermilab this week. In the photo, Leo Bellantoni gives a tour on Monday of the A0 clean room, where superconducting cavities are being developed. From left to right, Bellantoni, Shuichi Noguchi, Hitoshi Hayano, Timergali Khabibouline (TD), Kaoru Yokoya, Kenji Saito, Helen Edwards, Nobu Toge, and Nikolay Solyak (TD).

From Lewis-Burke Associates

Senate Appropriations Committee Marks Up NSF

Yesterday, the full Senate Appropriations Committee marked up and reported out their version of an FY 2005 VA, HUD, and Independent Agencies



Appropriations Act. This legislation contains funding for both the National Science Foundation and NASA. This summary will focus on NSF to be followed up later today with a summary on the Senate's recommendations for NASA.

For NSF, the Senate Appropriations Committee is recommending a total budget of \$5.74 billion – a 3% increase over the FY 2004 level. The Senate's

Director Michael

[Steve Holmes](#)

Witherell asserted that the lab could effectively double ILC resources for FY05, by redirecting X-band (warm) efforts and focusing on superconducting RF in light of the recommendation by the ILC International Technology Recommendation Panel.

Holmes, who is a member of the ILC-America Steering Committee, will discuss international developments and the technical



requirements facing ILC R&D as a result of the recent decision to proceed with superconducting RF technology.

[ILC R&D: Three-cell niobium cavity undergoing cold test in the Technical Division](#)

Mishra will discuss Fermilab's plans for expanding work already underway, including

superconducting radiofrequency accelerator cavities, the ILC physics and detector study group, silicon-based detector design studies, and the Meson Test Beam Facility, one of the few such facilities available in particle physics.

Announcements

recommendation is equal to the President's request and counters the House recommendation which had sought to cut the NSF request by almost \$300 million to a level of \$5.47 billion.

[read more](#)

Correction

Yesterday's issue of *Fermilab Today* stated that Dr. Ralph Stanley & The Clinch Mountain Boys will perform on Friday, September 25. Dr. Ralph Stanley & The Clinch Mountain Boys will perform at Fermilab's Arts Series on Saturday, September 25. *Fermilab Today* regrets the error.

In the News

From the *Chicago Sun-Times*, September 22, 2004 Panel will try to win billion-dollar project

by Howard Wolinsky

Gov. Blagojevich on Tuesday announced he had named a high-level task force of government, business, labor and research university leaders to bring a \$1 billion new project to Argonne National Laboratory that could add hundreds of permanent jobs and thousands of construction jobs.

Illinois and Michigan are competing for the Rare Isotope Accelerator project that will study fundamental science but is expected to yield commercial applications in medicine, energy production and national security.

"It is critical that the public and private sectors in Illinois work together to support Argonne as the location for this important new facility," Blagojevich said.

Sing Happy Birthday to CERN Today!

Next month CERN will celebrate its 50th birthday. Fermilab and other particle physics labs are preparing a video birthday card that will be sent to CERN. Join us today at 11:30 a.m. on the front steps of Wilson Hall to sing Happy Birthday to CERN. For more information, contact [Elizabeth Clements](#).

Join Fermilab's Habitat Restoration Group Tomorrow

The Habitat Restoration group will meet tomorrow, September 25, at 8:00 a.m. in the Lederman Science Center parking lot. Coffee and doughnuts will be served. From there the group will drive to the area between Roads A-1 and A-2 to cut down non-native bushes and weeds. Please wear long sleeves and long pants. For more information call Barb Kristen 840-3199. In the case of inclement weather please call the Fermilab operator for cancellation.

New Classified Ads Posted on Fermilab Today

New [classified ads](#) have been posted on *Fermilab Today*. A permanent link to the classifieds is located in the bottom left corner of *Fermilab Today*.

Free English Classes

NALWO-sponsored free English language classes for beginning and advanced levels are Fridays at the Users Center from 9:30 a.m. to 11:00 a.m.

Fermilab Arts Series Tomorrow

The Fermilab Arts Series will present Dr. Ralph Stanley & The Clinch Mountain Boys tomorrow, Saturday 25, at 8:00 p.m. in Ramsey Auditorium.

[more information](#)

He asked Jack Lavin, director of the Illinois Department of Commerce and Economic Opportunity, to lead a public-private task force with Argonne director Hermann Grunder and University of Chicago President Don Randel.

[Read more](#)

Fermilab Film Series Tonight

The Fermilab Film Series presents "O Brother, Where Art Thou?" on Friday, September 24 at 8:00 p.m. in Ramsey Auditorium. Tickets are \$4.00.

[more information](#)

Wilson Hall Warden Training

It's time for the annual WH Emergency Warden Training again! Training is available on September 27 at 1:30 p.m. and September 28 at 10:00 a.m. Class is not expected to last more than an hour.

Voter Registration in Wilson Hall

There will be an opportunity to register to vote in the November 2 elections in 1 North in Wilson Hall today between noon and 1:00 p.m. You must be a resident of Du Page or Kane County. Bring two pieces of identification, one showing your current residence (e.g. an addressed envelope). If you are a registrar for either Du Page or Kane County please contact [Mike Albrow](#) at x8618 because help is needed.

Upcoming Power Outages

September 24

Wilson Hall and all of Fermilab except for the Village and the Main Injector: Master Substation switch over will begin around 7:00 AM, no power site-wide for 1/2 hour.

September 25

Linac, Cross Gallery, Main Control Room, High Bay, MAC Room: feeder 40 work will begin at 7 AM; no power to these areas for eight hours