

Around the World

From Interactions.org: Particle physics receives boost from \$5 million gift to University of Chicago

The University of Chicago announced today that it has received a \$5 million gift to be directed toward the development of future programs in particle physics.



Because of a generous donation furloughs can stop at Fermilab.

"This is a marvelous gift," said Robert Zimmer, President of the University. "A generous family has stepped forward and is making an investment in high-energy physics, to the direct benefit of our ambitious scientific goals. It is a powerful recognition of the importance of basic research." [Read more...](#)

Calendar

Upcoming meetings, conferences, workshops

[ICFA NANOBEAM Workshop](#)

Budker INP, Novosibirsk, Russia
25-30 May 2008

[XXII Symposium on Photonics and Electronics for Accelerators and High Energy Physics Experiments](#)

Warsaw University of Technology Resort, WILGA
26 May - 1 June 2008



[GDE Meeting - ILC](#)

[Conventional Facilities and Siting Workshop](#)

JINR, Dubna, Russia
3-7 June 2008

[International Linear Collider ECFA Workshop \(ECFA 2008\)](#)

Warsaw, Poland
9-12 June 2008

[Polarized Positron for Linear Colliders Workshop \(Posipol 2008\)](#)

Feature Story

Hail Cesr

Part one of a series on how a storage ring at Cornell University morphs into a damping ring test accelerator



Cornell's CESR accelerator is becoming a test facility for ILC damping ring studies.

Sometimes even pretty straightforward and remarkably logical ideas take several moves before they become a reality. Take the planned damping rings for the ILC, for example. In the ILC, compact bunches of electrons and positrons are made to collide at very high energy. In order to ensure a high rate of particle collisions, the bunches are cooled in damping rings prior to acceleration. In a cold bunch, the particles are all very close together and travelling in very nearly the same direction with very nearly the same velocity. (In a hot bunch, as in a hot pot of water, the particles are more dispersed and are all moving in different directions.) [Read more...](#)

-- Barbara Warmbein

In the News

From *symmetry breaking*
28 May 2008

A new Hawking paper

... His new paper, with other physics heavyweights Jim Hartle and Thomas Hertog, was published the other day in Physical Review Letters. In it, he continues a research direction he started with Hartle back in 1983 in a paper provocatively (for physicists) titled "Wave function of the Universe". In that paper, H&H suggested that the universe might be finite but have no boundary—the no-boundary proposal. [Read more...](#)

Director's Corner

Establishing an Asian science communication network



New office preparing for the Asian communication network. from left: Heasook Han, Nobuko Kobayashi, and Emiko Yanagisawa.

If you were a university professor and wanted good graduate students in your research group, what would you do? You'd surely advertise high-energy physics in your class or conduct a campaign in the physics department. However, what if good students have already escaped to the other departments, for example bio-science? What if good students have gone to other universities? You need to advertise physics first, or your university first. [Read more...](#)

-- Mitsuaki Nozaki

[Director's Corner Archive](#)

Image of the Week

Rotolo Middle School students give collider reports



On Friday, May 23, eighth-grade students from Rotolo Middle School presented reports on the ILC to Fermilab scientists. The reports, which were assigned as part of the students' science curriculum, explored the science, structure and collaborative nature of the proposed linear collider experiment.

Hiroshima University, Japan
16-18 June 2008

[European Particle Accelerator
Conference \(EPAC'08\)](#)

Genoa, Italy
23-27 June 2008

Upcoming schools

[The second Trans-European School
for High Energy Physics \(TES-HEP\)](#)

Buymerhovka, Sumy region, Ukraine
3-9 July 2008

[Third International Accelerator School
for Linear Colliders \(2008 LC School\)](#)

Oak Brook, Illinois, USA
19-29 October 2008



**= Collaboration-wide
Meetings**

[GDE Meetings calendar](#)

[View complete ILC calendar](#)

From *Fermilab Today*
27 May 2008

My hat's off to you

... Our competence and spirit
generate trust in our laboratory.
[Read more...](#)

From *Science Daily*
26 May 2008

Tapping The Early Universe For Secrets Of Fundamental Physics

... But this requires much more
interaction between astronomical
theory and observation, and in
particular the development of a new
breed of astronomer who
understands both.
[Read more...](#)

Announcements

arXiv preprints

[0805.3619](#)

Universal Extra Dimensions, Radiative
Returns and the Inverse Problem at a
Linear e^+e^- Collider

[0805.3486](#)

Consequences of Pati-Salam
unification of electroweak-scale active
 ν_R model: keV sterile neutrinos; four
families

[0805.3478](#)

Collimator R&D

[0805.2359](#)

B-Physics Observables and
Electroweak Precision Data in the
CMSSM, mGMSB and mAMSB

[0805.2057](#)

The Hierarchy Problem and the
Safety in Colliders Physics