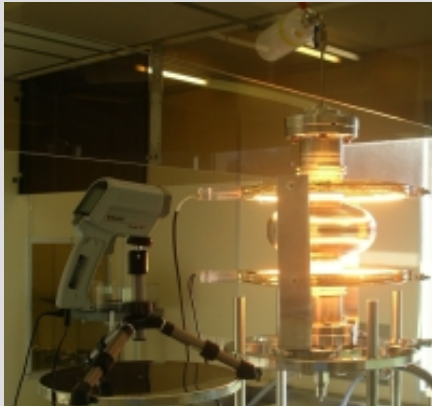


Feature Story

Hot out of the oven, Saclay team improves cavity baking process



At Saclay, cavities are baked with an infrared heating source.

Before accelerating electrons and positrons, cavities need to undergo a number of treatments, such as chemical and electropolishing, the last one being baking. The standard baking procedure heats the cavity at 120°C for two days with an ultra high vacuum (UHV) requirement. These very restrictive conditions are unfortunately not appropriate for the treatment of 16,000 cavities that the ILC requires. At Saclay, France, the DAPNIA laboratory has been working on RF cavities for about 15 years, within the TESLA collaboration. Their cavity baking facility recently reached a milestone, showing that the baking time could be reduced to three hours and the UHV conditions may not be necessary, which would be more compatible for mass production of cavities.

[Read more...](#)

-- Perrine Royole-Degieux

Calendar

Feature Story

China on the walkway towards the ILC

The Temple of Heaven, a masterpiece of architecture and landscape design in Beijing symbolises the relationship between earth and heaven - the human society and the universe - which stands at the heart of Chinese cosmology. It was the central image on the poster for the 9th ACFA ILC Physics & Detector Workshop and ILC GDE Meeting in February 2007 at IHEP in Beijing, where the ILC reference design and preliminary cost were officially announced. Although the walkway towards the ILC is as long as that in the Temple of Heaven, China is now taking steady steps and making more contributions to the realisation of the ILC. This interest manifests itself in the Chinese scientists' unanimous support for China's participation in the ILC, which has been demonstrated during the Fragrant Mountain Meeting, held at the end of 2006, the expanding collaboration with KEK and other labs worldwide, the ILC GDE Meeting held in Beijing this February, and the various R&D efforts in progress at IHEP and other institutes.



[Read more...](#)

-- J.Y. Zhai, IHEP

In the News

From *Cern Courier*
April 2007
ICFA releases ILC design report
[Read more...](#)

From *Physicsworld*
April 2007
A triangle that matters
[Read more...](#)

From *Le Journal du CNRS*
April 2007
Horizon 2020: les ambitions du CNRS
[Read more \(in French\)...](#)

Director's Corner

GDE to sponsor Second International School for Linear Colliders



Poster for the 2nd International School for Linear Colliders

I am pleased to announce that the second accelerator school dedicated to linear colliders will be held from 1-10 October 2007 at Ettore Majorana Center, Erice (Sicily), Italy under the sponsorship of the ILC GDE, ILCSC and ICFA Beam Dynamics Panel. The demand for success of our first accelerator school held last year in Japan has motivated us to follow up with a second school in Europe this year, and we plan a third one in the U.S. next year. The primary focus of the school will be on the International Linear Collider (ILC), but it will also cover multi-TeV colliders, such as the Compact Linear Collider (CLIC). The school is directed toward graduate students from universities around the world, postdoctoral fellows, junior researchers, and physicists interested in changing their career from experimental physics to accelerator physics. Detailed information on the school can be found [online](#).

[Read more...](#)

-- Barry Barish

[Director's Corner Archive](#)

Announcements

Upcoming meetings, conferences, workshops

[SiD Fermilab Workshop](#)

Fermilab, Batavia, Illinois
9-11 April 2007

[The LHC Early Phase for the ILC](#)

Fermilab, Batavia, Illinois
12-14 April 2007

[TESLA Technology Collaboration Meeting](#)

Fermilab, Batavia, Illinois
23-26 April 2007

MAC Meeting

Fermilab
26-27 April 2007

[DOE/NSF ILC Americas Regional Team Review](#)

Fermilab
30 April - 2 May

[ILC Software and Tools Workshop](#)

LAL - Orsay
2-4 May 2007

[CALICE Collaboration Meeting](#)

Kobe University, Kobe, Japan
10-12 May 2007

[Annual WILGA Conference](#)

Warsaw University of Technology
Resort, Poland
21-27 May 2007

[POSIPOL 2007 Workshop](#)

LAL-Orsay, France
23-25 May 2007

[LCWS 2007](#)

Hamburg, Germany
30 May - 4 June 2007

[View Full Calendar...](#)

 = Collaboration-wide Meetings

[GDE Meetings Calendar](#)

From *Symmetry Magazine*
Mar/Apr 2007

Focus on the Future

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From *Symmetry Magazine*
April 2007

Toward an International Linear Collider

[Read more...](#)

From *Symmetry Magazine*
Mar/Apr 2007

The ILC's reference design

[Read more...](#)

From *Interactions.org*
2 April 2007

A New Dawn in Scientific Research

[Read more...](#)

From *Science Magazine*
29 March 2007

String Theory, With No Holds Barred

[Read more...](#)

LCWS 07 Early Registration Deadline

The LCWS2007/ILC workshop and GDE meeting will take place at DESY in Hamburg, Germany, from 30 May to 3 June 2007.

The deadline for early registration is 15 April 2007.

[more information](#)

ILC-Related Preprints

[physics/0703243](#)

28 Mar 2007

Micromegas TPC studies at high magnetic fields using the charge dispersion signal

[hep-th/0703239](#)

27 Mar 2007

Noncommutative QED corrections to process $e^+ e^- \rightarrow \mu^+ \mu^- \gamma$ at linear collider energies

EUROTeV Reports 2006

[EUROTeV-Report-2006-025](#)

Fast Injection Kickers for DAΦNE and ILC Damping Rings

[EUROTeV-Report-2006-079](#)

Selection of the optimum Magnet Design for the International Linear Collider Positron Source Helical Undulator