

### Around the World

#### Polishing the safety standards



Sawabe explaining the EP machine.

Superconducting cavities are the core, the heartbeat of the International Linear Collider. Their inside will be polished to literally make them sparkle without any speck of dust or crack because these could cause a decline of performance of the accelerator. There are several methods to polish the inside of the cavities, and electropolishing (EP) is one of them. The new EP system at KEK has started its test-run in January, and scientists are gathering basic data to evaluate the machine's capability.

[Read more...](#)

-- Rika Takahashi

### Calendar

#### Upcoming meetings, conferences, workshops

[Positron Source Meeting](#)

DESY Zeuthen, Germany  
7-9 April 2008

[Energy Polarization Workshop](#)

DESY Zeuthen, Germany  
9-11 April 2008

[SiD Workshop](#)

Rutherford Appleton Laboratory,  
Abingdon, United Kingdom  
14-16 April 2008

[Workshop on High energy photon collisions at the LHC](#)

CERN, Geneva  
21-25 April 2008

[LoopFest VII](#)

[Radiative Corrections for the LHC and](#)

### In Memoriam

#### Sad news for the ILC community

Vincent Lepeltier, our good colleague and friend, suddenly passed away last week, a few days after the Sendai meeting, leaving us full of pain and sadness. We will miss very deeply both his professional and human qualities.



Vincent Lepeltier at the last ILC meeting at Sendai. (Photo: Nobu Toge)

For more than twenty years Vincent was a world expert in gaseous detectors, especially of Time Projection Chambers (TPC) who was based at LAL, Orsay, France. After having worked on all aspects of the DELPHI TPC, and especially its drift velocity monitoring, crucial to obtain a good longitudinal resolution, and a very successful participation to the FFTB experiment at SLAC in the early 1990s, he led in 1996 the small LAL-LBNL-Cincinnati group that designed and built the miniTPC for PEP-II commissioning.

[Read more...](#)

-- Guy Wormser, LAL director

### In the News

From *Telegraph.co.uk*  
25 March 2008

#### The Big Bang: atom-smashing could uncover truth

It will enable them to recreate - fleetingly - the state of the universe during the early stages of the Big Bang.

[Read more...](#)

From *AFP*  
24 March 2008

#### Greatest experiment ever in particle physics nears countdown

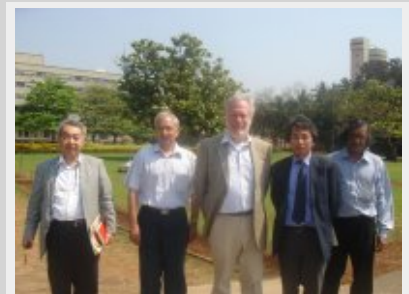
If things go according to plan, the greatest experiment in the history of particle physics could unveil a sub-atomic component, the Higgs Boson, which is so tantalising that it has been called "the God Particle."

[Read more...](#)

### Director's Corner

#### The next step towards the ILC — building a truly global team

Today's issue features a Director's Corner from Marc Ross, Project Manager for the Global Design Effort.



At the Tata Institute of Fundamental Research in Mumbai, with Prof. A. Gurtu and Prof. R.G. Pillay.

It has been roughly a year since the completion of the *Reference Design Report* (RDR) and the creation of a project-oriented design effort. It is reasonable, therefore, to look broadly over our accomplishments and the direction in which we are heading.

[Read more...](#)

-- Marc Ross

### Director's Corner Archive

### Image of the Week

#### Getting behind the wheel



As the ILC positron source community prepares for its next [collaboration meeting](#) at DESY in Zeuthen from 7 to 9 April, physicists and engineers from the University of Liverpool, Daresbury Laboratory and the Cockcroft Institute in the UK are putting the finishing touches to a first prototype of a positron production target for use in the ILC positron source. The titanium alloy spoked wheel is one metre in diameter and designed to rotate at speeds of up to 2000 rpm in magnetic fields of up to

## [ILC](#)

University at Buffalo, Amherst, New York, USA  
14-16 May 2008

## [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

## [ECFA 2008](#)

Warsaw, Poland  
9-12 June 2008

## Upcoming schools

### [Terascale Monte Carlo School](#)

DESY, Hamburg, Germany  
21-24 April 2008



= Collaboration-wide Meetings

## [GDE Meetings calendar](#)

## [View complete ILC calendar](#)

From *CNRS/IN2P3 press release*  
21 March 2008

## **Création d'un laboratoire international associé entre la France et la Corée**

...les scientifiques français... collaborent déjà activement avec plusieurs établissements coréens au développement de nouveaux détecteurs pour le futur Collisionneur Linéaire International (ILC) dont le démarrage est prévu pour le début des années 2020.  
[Read more...](#)

From *Interactions.org*  
21 March 2008

## **Belle experiment observes a difference in direct CP-asymmetry between charged and neutral B meson decays**

Although it is susceptible to strong interaction effects, this difference could be an indication of a new source of CP violation that is needed to explain the matter-dominated Universe.  
[Read more...](#)

From *IN2P3 News*

19 March 2008

## **Deux chercheurs de l'IN2P3/ CNRS exerceront des responsabilités importantes dans la nouvelle structure de gouvernance du projet ILC**

Deux chercheurs français, Michel Davier (...) et Jean-Eudes Augustin (...) ont été choisis pour présider deux comités de conseil et de supervision au sein de la nouvelle organisation de l'ILC.  
[Read more...](#)

From *the Chicago methods reporter*  
14 March 2008

## **Local science labs forced to trim operations**

The squeeze at Argonne and Fermilab today could mean some future technologies will be developed elsewhere - possibly outside the United States.  
[Read more...](#)

1.5 Tesla. Once the magnet and safety guarding have been moved in place, the prototype will be used to explore how the real target wheel will interact with the magnetic fields that will be used to capture and focus emitted positrons.

-- Ian Bailey, Daresbury Laboratory

## Announcements

### **Register for GDE and ECFA meetings**

Please register for the [GDE meeting in Dubna](#) and the [ECFA meeting in Warsaw](#) to help the organisers plan the events. Visa information for Russia is available [here](#).

### **arXiv preprints**

[0803.3519](#)

Photon production at the interaction point of the ILC

[0803.3517](#)

Measuring  $B \rightarrow \tau \nu$  and  $B_c \rightarrow \tau \nu$  at the Z peak

[0803.3011](#)

The flavor-changing top-charm quark production in the lightest Higgs model with T parity at the ILC