

Around the World

First gathering in Beijing

China's domestic linear collider workshop held



Group photo of CLCW2010. Image: IHEP

Just a week after the International Workshop on Linear Colliders ([IWLC2010](#)) held in Geneva, China's Linear Collider Workshop (CLCW2010) organised by the Institute of High Energy Physics (IHEP) was held in Beijing Laffitte Hotel from 30 to 31 October. For the first time, China's linear collider community gathered together to exchange ideas and have a comprehensive discussion about China's participation in the International Linear Collider (ILC) and the Compact Linear Collider study (CLIC). "CLCW2010, as the first one in a Chinese domestic linear collider workshop series, is a very important event for China's high energy frontier community," said Jie Gao, chair of CLCW2010 and of ALCSC (Asian Linear Collider Steering Committee).

[Read more...](#)

-- Min Zhang

Calendar

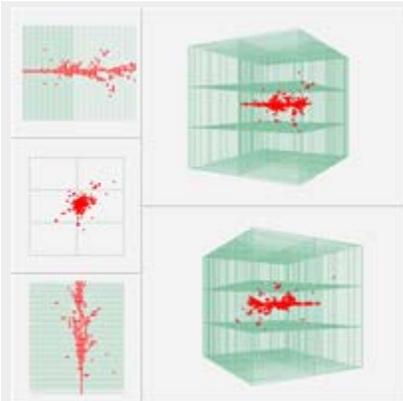
Upcoming meetings, conferences, workshops

[2010 IEEE Nuclear Science Symposium and Medical Imaging Conference](#)
Knoxville, Tennessee, USA
30 October - 6 November 2010

[SiD Workshop](#)
University of Oregon, Eugene, Oregon, USA
15-17 November 2010

Feature Story

You say you want more resolution...



Top, side, front and three-dimensional views of DHCAL. Red sensory pads are ones that have detected a threshold energy from the pion shower. Image: José Repond

Scientists led by a group at Argonne National Laboratory are bringing pictures of hadronic showers into sharper focus with the Digital Hadron Calorimeter, or DHCAL, one of several hadron calorimeter options for the ILC detector. The Argonne group began testing the device last month at the Fermilab Test Beam Facility.

[Read more...](#)

-- Leah Hesla

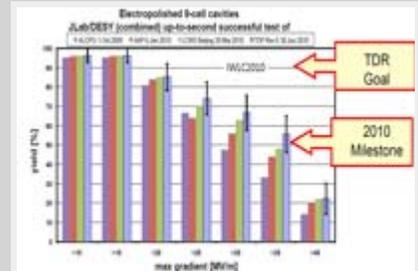
In the News

From *CERN*
4 November 2010
The LHC enters a new phase
Geneva, 4 November 2010. Proton running for 2010 in the LHC at CERN came to a successful conclusion today at 08:00 CET.
[Read more...](#)

From *Cern Bulletin*
1 November 2010
CLIC/ILC Researchers Explore New Avenues for Collaboration
Although the talks were mostly scientific and technical, the political message behind them was a

Director's Corner

Cavity gradient milestone achieved



Production yields of ILC cavities, where most recent data proves that the ILC milestone of 50% yield for cavities was achieved

One of our most visible and important ILC R&D short-term milestones has been to demonstrate production of ILC superconducting radio frequency cavities with gradient of greater than or equal to 35 megavolts per metre (MV/m) and $Q_0 = 8 \times 10^9$ and 50 percent production yield. (Q_0 is the quality factor of a cavity, where a higher Q indicates a lower rate of energy loss relative to the stored energy.) Results from our cavity R&D that have recently been presented at the [Baseline Assessment Workshop](#) and at [IWLC2010](#) are consistent with this goal, and consequently today I announce the successful achievement of that important 2010 milestone. The achievement of this gradient goal, set three years ago, is particularly noteworthy because it represents a significant step towards practically being able to produce high-gradient cavities that meet the ambitious ILC requirements.

[Read more...](#)

-- Barry Barish

Director's Corner Archive

Image of the Week

5.2 m = 3 PMs

[X-Band Structures, Beam Dynamics and Sources Workshop \(XB-10\)](#)
Cockcroft Institute, Daresbury, UK
30 November - 3 December 2010

[Second Baseline Assessment Workshop \(BAW-2\)](#)
SLAC
18-21 January 2011

Upcoming schools

[Fifth International Accelerator School for Linear Colliders](#)

Villars-sur-Ollon, Switzerland
25 October - 5 November 2010

[US Particle Accelerator School \(USPAS\)](#)

Old Dominion University, Hampton, Virginia, USA
17-28 January 2011

[GDE Meetings calendar](#)

[View complete ILC calendar](#)

breakthrough, as the workshop showed the progress made in unifying the two communities.
[Read more...](#)

From *Cern Bulletin*
1 November 2010

Cosmic ray synergies

In laboratories, cosmic rays have been the subject of scientific research for many years. A more recent development is their appearance in schools, as educational tools.

[Read more...](#)

From *msnbc.com*
1 November 2010

Aging U.S. particle accelerator gets more time

Fermilab's Tevatron main competitor: Large Hadron Collider in Switzerland

[Read more...](#)

From *New York Times*
1 November 2010

Trillions of Reasons to Be Excited

...The latter suggestion raised eyebrows among physicists in and out of CERN, who wondered, among other things, what it would mean for the International Linear Collider, which has long been presumed to be the next big physics machine. ...

[Read more...](#)

From *Discovery News*
1 November 2010

TEVATRON GETS NEW LEASE ON LIFE

The High Energy Physics Advisory Panel (HEPAP) that reports to the US Department of Energy [recommended] to extend its operation for another three years, through 2014.(...) That puts the aging Tevatron back in the game for being the first to spot the elusive Higgs boson.

[Read more...](#)



GDE Project Managers Nick Walker, Akira Yamamoto and Marc Ross show off the width of the mock-up tunnel for the European XFEL. *Image: Peter Garbincius*

Announcements

arXiv preprints

[1011.0552](#)

The flavor-changing top-charm associated productions at ILC in littlest Higgs model with T parity

[1011.0337](#)

Results from a Prototype Chicane-Based Energy Spectrometer for a Linear Collider

[1011.0297](#)

Instrumentation of the Very Forward Region at Future Linear Colliders - design and R&D by the FCAL Collaboration

[1010.5992](#)

Luminosity Measurement at the International Linear Collider

[1010.5579](#)

Simple and robust method for search Dark Matter particles and measuring their properties at ILC in various models of DM