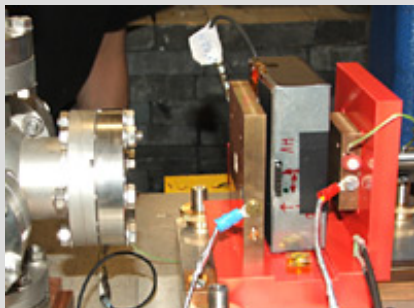


Around The World

FCAL'S Best Friends



Mechanical setup for irradiating the diamond sensors.

The forward calorimeters in the future ILC detectors will be an extremely hostile environment, and to be able to make measurements, the detectors have to be able to take a lot without giving in. That's why the [Forward Calorimeter Collaboration](#) is testing all its options and has just come back from Darmstadt University's S-DALINAC - for Superconducting Darmstadt Linear Accelerator - with results on the radiation hardness of diamond sensors for the detector.

Forward calorimeters measure the energy of particles crossing them in the direction of the beams. The FCal Collaboration with its 10 institutes from around the world works on a calorimeter system consisting of a luminosity and a beam calorimeter, all of which can be used in any future ILC detector, independent of the concept from which they were born. Their performance depends on their radiation hardness: at the ILC we have to tackle a new phenomenon - beamstrahlung.

[Read more...](#)

-- Barbara Warmbein

Calendar

Feature Story

RDR and DCR on Schedule at VLCW06



Nobu Toge asking a question during the closing plenary session at VLCW06.

In closing out last week's Vancouver Linear Collider Workshop 2006, Global Design Effort Director Barry Barish declared that the Reference Design Report (RDR) and Detector Concept Report (DCR) are on track to be released in draft form in early 2007. "We have seen a lot of costing information, and we are still on track," he said.

Hosted jointly by the American Linear Collider Planning Group (ALCPG) and the GDE, nearly 300 participants met for a four-day workshop at the University of British Columbia in Vancouver, Canada. While some meeting participants rose early to take morning swims, the sublime views of the Canadian Rockies and the Pacific Ocean did not distract anyone from the tasks at hand: assess progress made toward writing a RDR and DCR, determine next steps for the ILC R&D program, and complete preliminary costing for the ILC.

[Read more...](#)

-- Elizabeth Clements

In the News

Director's Corner

Building and Testing a String of Cryomodules - a Task for S2



Klystron Gallery in the Superconducting RF Test Facility under development at KEK

An ambitious and crucial goal of the ILC R&D programme is to build and test a string of superconducting RF cryomodules that operate at or near the design gradient. Achieving such a milestone would help optimise the design and minimise the risks for full-scale production of the ILC main linac. Large and long-term R&D programmes aimed at this goal are getting underway at several of our laboratories. The GDE R&D Board has recognised the need for the GDE to provide guidance to these programmes - therefore it is forming a special task force called S2 that will be co-chaired by Hasan Padamsee (Cornell) and Tom Himel (SLAC). [Read more...](#)

-- Barry Barish

[Director's Corner Archive](#)

VLCW06 Photo Album - Take II



Here is another glimpse of the VLCW06 workshop. [View photo album...](#)

Upcoming meetings, conferences, workshops

[2006 Linear Accelerator Conference](#)

Knoxville, Tennessee, USA
21-25 August 2006

[Linear Collider Physics School 2006](#)

Ambleside, UK
14-19 September 2006

[TTC Meeting \(Tesla Technology Collaboration\)](#)

KEK ([Information on schedule and logistics](#))

25-28 September 2006

[9th International Workshop on Accelerator Alignment](#)

Stanford Linear Accelerator Center
25-29 September 2006

[View Full Calendar...](#)

[GDE Meetings Calendar](#)

From *physicsweb*
25 July 2006

Laser could create dark-matter particles

By the end of the year, physicists at the DESY laboratory in Germany may have caught a glimpse of an exotic dark-matter particle known as an axion.

[Read more...](#)

From *Science Magazine*
21 July 2006

Europe Draws Up Road Map, With Added CLICs

European particle physicists last week laid out their priorities for the future in a document that gives top billing to the nearly completed Large Hadron Collider at CERN, the European particle physics lab...

[Read more...](#)

(Subscription required)

Announcements

ILC Related Preprints

[hep-ph/0607225](#)

20 Jul 2006

Event-shape of dileptons plus missing energy at a linear collider as a SUSY/ADD discriminant

[hep-ph/0607167](#)

14 Jul 2006

Little Higgs model effects in gamma gamma to gamma gamma