

Feature Story

First Japanese ILC Detector Workshop Held at KEK



Hitoshi Murayama held a series of lectures on "Perspective of Particle Physics and Cosmology" in the evenings.

From 20 to 22 December 2006, the first Japanese "ILC Detector" Workshop took place at KEK. It was supported by the JSPS grant for Creative Scientific Research "Research and development of a novel detector system for the international linear collider," and about sixty participants - from undergraduate to senior researcher - from all over the country came to KEK. The main purpose of this workshop was to exchange news about the R&D status of ILC detectors and ideas on the Reference Design Report (RDR) and Detector Concept Report (DCR).

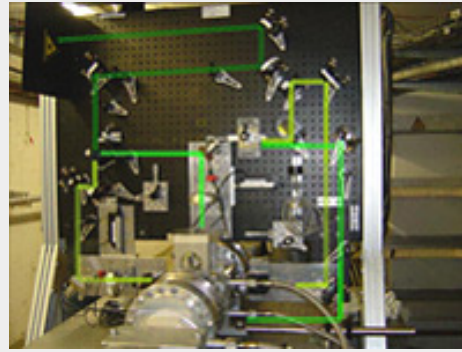
[Read more...](#)

-- Nobuko Kobayashi

Calendar

Feature Story

EuroTeV Looks Ahead to the ILC Engineering Design Phase



EuroTeV talks covered the latest R&D on the laser wire system, an essential ingredient for achieving high luminosity by measuring the beam size and its location in the ILC.

Almost three years after EuroTeV (The European Design Study Towards a Global TeV Linear Collider) convened for the very first time at Daresbury Laboratory in February 2004, the collaboration met once again this past week amidst the rolling green hills and gusting gales to acknowledge programme accomplishments and discuss plans for the future.

EuroTeV is a 'design study' approved by the European Commission FP6 programme with an original lifespan of three years. It is addressing critical ILC R&D issues in aspects of beam dynamics, the beam delivery system, damping rings, the positron source, instrumentation systems, metrology and vibration stabilization. It is also investigating possibilities for future remote ILC operations via the 'Global Accelerator Network' concept. The Commission recently issued first calls under FP7 for new project proposals for 'preparatory phase' studies of major projects in the period 2008-13, and these are due in early May. The EuroTeV collaboration has hence started to think about how best to participate in ILC bids during this next funding period.

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Director's Corner

EuroTeV and MAC Meeting at Daresbury



The Machine Advisory Committee.

Today's issue features a Director's Corner from Brian Foster, GDE European Regional Director.

The holiday period has been a busy time for the GDE. Shortly before Christmas many of us gathered at SLAC to have a first look at the RDR and its costings with some distinguished external reviewers. Hardly had the New Year arrived when we met again, congregating from around the world to present this information, informed by many useful comments at SLAC, to the Machine Advisory Committee, chaired by Ferdinand Willeke of DESY. The meeting took place at the impressive new building at Daresbury Laboratory near Warrington, UK that houses two separate but intimately related organisations. One is ASTeC, the accelerator R&D arm of the Central Laboratory for the Research Councils in the UK; the other is the Cockcroft Institute, one of two accelerator institutes founded somewhat over two years ago by PPARC, the UK funding authority for particle physics and astronomy. The other PPARC foundation is the John Adams Institute at Oxford and Royal Holloway University of London. The facilities at Daresbury are excellent, and were greatly conducive to a very productive week for the ILC project.

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Upcoming meetings, conferences, workshops

[USPAS](#)

Texas A&M University
15-26 January 2007

[ILC Detector Test Beam Workshop](#)

Fermilab, Batavia, Illinois
17-19 January 2007



[The 9th ACFA ILC Physics & Detector Workshop & ILC GDE Meeting](#)

IHEP, Beijing
4-7 February 2007

[TESLA Technology Collaboration](#)

[Meeting](#)

Fermilab, Batavia, Illinois
23-26 April 2007

[Annual WILGA Conference](#)

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



[LCWS 2007](#)

Hamburg, Germany
30 May - 4 June 2007

[VII International workshop on](#)

[Problems of Charged Particle](#)

[Accelerators: Electron-positron](#)

[Colliders](#)

JINR-BINP, Alushta (Crimea, Ukraine)
2-8 September 2007

[IEEE EUROCON 2007](#)

Warsaw, Poland
9-12 Sept 2007

[12th International Workshop on](#)

[Polarized Sources and Targets \(PST](#)

[2007\)](#)

Brookhaven National Laboratory
10-14 September 2007



= **Collaboration-wide Meetings**

[GDE Meetings Calendar](#)

-- Elizabeth Clements

In the News

From *FYI: The American Institute of Physics*

17 January 2007

DOE Outlines "Critical Impacts" of Flat Funding on Science and Other Programs

"...A year-long CR at the FY2006 funding level, with no further relief, will result in severe impacts to the program. A one-month furlough of all Fermilab employees will be necessary, except for personnel essential for safety and security..."

[Read more...](#)

From *Cosmic Log*

16 January 2007

The next big machine in the world of science

"The next big machine in the world of science is the Large Hadron Collider, an \$8 billion particle accelerator due to start operations late this year on the French-Swiss border..."

[Read more...](#)

From *Eureka Magazine*

16 January 2007

Accelerator challenges move the frontiers

Tom Shelley reports on the large-scale precision requirements being set by plans to build the world's next big particle accelerator.

[Read more...](#)

From *Scientific American*

16 January 2007

String Theory's Extra Dimensions Must Be Less Than Half the Width of a Human Hair

"If extra dimensions of space exist, they must be smaller than about half the width of a human hair, according to new measurements of the strength of gravity at short distances..."

[Read more...](#)

From *Scientific American*

16 January 2007

The Triangular Universe

"Imagine a landscape composed of microscopic triangular structures that constantly rearrange themselves into new patterns..."

[Read more...](#)

-- Brian Foster

Director's Corner Archive

Announcements

Interactions.org now offers weekly newsletter

[Interactions.org](#) offers a daily smorgasbord of particle physics news. The site also is a central resource for communicators of particle physics, offering information, images and links from the world of particle physics.

Interactions.org is now offering a newsletter called "A Week of Interactions," a weekly compilation of all the news articles, press releases, images and features added to Interactions.org in the previous week. Subscription to the electronic newsletter is free of charge. [Sign up here](#) to receive your weekly compilation of particle physics news.

ILC-Related Preprints

[hep-ph/0701109](#)

15 Jan 2007

Low Intermediate Scales for Leptogenesis in SUSY SO(10) GUTs

[hep-ph/0701107](#)

15 Jan 2007

Hidden fermion as milli-charged dark matter in Stueckelberg Z' model

[hep-ph/0701094](#)

12 Jan 2007

The production of the new gauge boson B_H via $e\gamma$ collision in the littlest Higgs model

[hep-ph/0701062](#)

9 Jan 2007

Explaining dark matter, dark energy, neutrino masses and leptogenesis at the TeV scale

[hep-ph/0701044](#)

7 Jan 2007

Topological Physics of Little Higgs Bosons

