

Around the World

Subcommittee of Japan Society of Civil Engineers to Promote the ILC



Nine members of the Linear Collider Subcommittee of Japan Society of Civil Engineers met with the ILC representatives of KEK and the University of Tokyo on 8 August.

Members of the Japan Society of Civil Engineers (JSCE) met with ILC physicists at KEK on 8 August, during a meeting of the Committee Board of Technical Committee on Civil Engineering Issues for the Linear Collider Project, or "LC subcommittee".

"Our society addresses the technical and engineering challenges of largescale civil engineering," says Professor Norikazu Shimizu of Yamaguchi University, the subcommittee chair. "We have a lot of interest in the many kinds of challenges for building the ILC. This meeting is really useful to get a precise description of the project by having a frank and face-to-face discussion." Read more...

-- Nobuko Kobayashi

Calendar

Feature Story

Getting Wired for Beam Diagnostics



The laser for the laser wire in the ATF extraction line.

Luminosity is the ILC's magical word. The higher it is, the better the collisions, the better the results, the higher the chance to find the answer to some of the open questions the ILC community hopes to answer. The particle beams need to be long and thin, and the scientists have to know exactly what they looked like before they collided with their counterparts: if they know what went in, they can understand what comes out. The laser wire system, led by a team of universities in the UK, measures the beam size and its location and thus helps to know just what 'went in'. Read more...

-- Barbara Warmbein

Image of the Week



Federal President of Germany Horst Köhler (center) signing the DESY

Director's Corner

Revisiting the ILC Parameters

An innocent looking little document entitled "Parameters for the Linear Collider" dated 30 September 2003 has to a large extent determined the present baseline design of the ILC. We have used this document as if it were "a requirements



chair of the ILCSC Linear Collider Parameters Subcommittee

document," and the baseline design has flowed down from those requirements. Of course, that document was never intended to play such a critical role, and now that we are entering a period in which we want to optimise cost to performance, we must both understand how the parameters effect cost and how they affect performance (or science potential). For this reason, the International Linear Collider Steering Committee (ILCSC) has recently taken the step to reactivate its parameter group, which will provide us the necessary partner in doing this optimisation, first for the ILC reference design and later for our engineering design. Read more...

-- Barry Barish

Director's Corner Archive

Announcements

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

ILC Damping Rings R&D Workshop -ILCDR06 Cornell University 26-28 September 2006

The 17th International Spin Physics

Symposium (Spin 2006) Kyoto, Japan 2-7 October 2006

The International Workshop on Thin Films Legnaro, Padua (ITALY)

9-12 October 2006

EUDET Annual Meeting 2006

MPI Munich 18-20 October 2006

Single Crystal Niobium Technology

Workshop (pdf) Araxá mine in Brazil 30 October - 1 November 2006 <u>Tentative Program</u> (pdf) <u>Request Information</u> (email)

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GDE Meetings Calendar

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guestbook during his visit yesterday morning, with (left to right) First Mayor of Hamburg Ole von Beust, DESY Director Albrecht Wagner and Professor Jürgen Mlynek, President of the Helmholtz Association looking on. (Read the press release)

In the News

From *NewScientist.com* 26 August 2006 **Upcoming colliders: Physics on the edge** Forget those messy atom smashers a precision instrument is what's needed to discover the secrets of the universe. <u>Read more...</u>

(subscription required)

From Interactions.org 21 August 2006 DARK MATTER OBSERVED: Most Direct Measurement of Dark Matter Allows Study of its Nature Dark matter, the illusive stuff that makes up a quarter of the universe, has been seen in isolation for the first time.

Read more...

From *BBC News* 21 August 2006 **Team finds 'proof' of dark matter** US astronomers say they have found the first direct evidence for the mysterious stuff called dark matter. <u>Read more...</u>

From Science Magazine 21 August 2006 **Dark Matter Exposed?** A smoking bullet clinches the case for dark matter in galactic clusters, NASA announced today. <u>Read more...</u>

ILC-Related Preprints

hep-ph/0608112 10 Aug 2006 Associated single photons and doubly charged scalar at linear e-e- colliders

hep-ph/0608110

10 Aug 2006 Identifying new physics contributions in the Higgs sector at linear e+ecolliders

hep-ph/0608076

7 Aug 2006 Measuring the Running of the Electromagnetic Coupling Alpha in Small Angle Bhabha Scattering

physics/0608065

6 Aug 2006 The charged beam dumps for the international linear collider

hep-ex/0608038

14 Aug 2006 Review of Recent and Future Needs in Hadronic Flavor Particle Production Measurements

SLAC-PUB-12044

11 August 2006 Spin Rotation and Energy Compression in the ILC Linac-to-Ring Positron Beamline

hep-ph/0608027

3 Aug 2006 Bootstrapping One-Loop QCD Amplitudes

hep-ph/0607333

31 Jul 2006 Dimension-six top-Higgs interaction and its effect in collider phenomenology

See all preprints...