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3 July 2008

Around the World

Creating polarised positron beams Today's issue features a story from Tohru Takahashi, a particle physicist and associate professor at Hiroshima University. He is the co-author of "Big-Bang wo tsukuridase" (Making the Big-Bang), a book about the ILC.



Participants of the PosiPol Workshop held in Hiroshima, Japan.

The PosiPol2008 workshop was held from 16 to 18 June in Hiroshima, Japan. An unfamiliar word, "PosiPol" stands for "polarised positrons", meaning that the "spins" of positrons are aligned when they meet electrons at the centre of a linear collider. The electron beam is designed to be polarised at the ILC, but according to the baseline configuration positrons are unpolarised (or left naturally polarised) because making polarised positron is a difficult task to do. Read more...

-- Tohru Takahashi

Calendar

Upcoming meetings, conferences, workshops

Joint CesrTA Kickoff Meeting and ILC Damping Rings R&D Workshop (ILCDR08)

Cornell University, USA 8-11 July 2008

34th International Conference on High Energy Physics (ICHEP'08) Philadelphia, USA 29 July - 5 August 2008

Conference on the Design/ Optimization of the Silicon Detector at the International Linear Collider University of Colorado at Boulder, Colorado, USA 17-19 September 2008

Feature Story

From interactions.org: Five million Euros to prepare Europe for the International Linear Collider



ILC-HiGrade will produce a mini series of cavities.

The partners of the 'ILC-HiGrade' proposal for the European Commission's Seventh Framework Programme have just started a contract for five million Euros funding over the next four years with the European

Commission. 'ILC-HiGrade' stands for 'International Linear Collider and High Gradient Superconducting RF-Cavities.' One of the main objectives of the proposal is a small serial production of accelerating cavities, superconducting components made of pure niobium for the planned International Linear Collider (ILC), that reach the high technical standards needed for the planned particle physics project. Other objectives of the ILC-HiGrade proposal are the development of a possible organisation and governance for the ILC and measures to prepare for the actual construction of the machine, including a detailed study on possible sites in Europe. Read more...

Director's Corner

The ILC-ECFA Workshop in Warsaw



Stefan Pokorski describes various scenarios for physics at a linear collider.

From 9 to 12 June, the Faculty of Physics at the University of Warsaw, Poland, together with the Institute of Nuclear Studies hosted a workshop under the mandate of the European Committee for Future Accelerators (ECFA) to discuss the physics and detectors for a linear collider. This well attended workshop covered a broad range of topics from the physics of a linear collider to R&D for detectors. The attendants discussed the physics in advance of and preparing for the first results from the Large Hadron Collider (LHC) at CERN that will set the future course for the energy frontier. Read more...

-- Barry Barish

Director's Corner Archive

In the News

From Scientific American 1 July 2008

As LHC Draws Nigh, Nobelists **Outline Dreams--And Nightmares** ...Gross said that such a result, going against the standard model, would itself be "enormously exciting." What worried him was finding the Higgs and nothing else, because then it would be impossible to persuade world governments to fund future

machines such as the proposed

International Linear Collider, Read more...

Image of the Week

Cavities around the world



Calling all NewsLine readers with digital cameras! As you are heading off to your various holiday (and

Upcoming schools

The second Trans-European School for High Energy Physics (TES-HEP) Buymerhovka, Sumy region, Ukraine 3-9 July 2008

Third International Accelerator School for Linear Colliders (2008 LC School)

Oak Brook, Illinois, USA 19-29 October 2008

= Collaboration-wide Meetings

GDE Meetings calendar

View complete ILC calendar

From *Courier News* 1 July 2008

Funding will prevent more Fermilab layoffs

New federal dollars save jobs, restart projects Read more...

From *Frankfurter Allgemeine Zeitung* 30 June 2008

Der Urknall von Genf

...Denn was man im Untergrund des schweizerisch-französischen Grenzgebiets zu sehen bekommt, ist die größte Maschine, die sich Physikerhirne je ausgedacht haben – ein Teilchenbeschleuniger und Speicherring der Superlative, ausgestattet mit modernster Technik. Read more...

From *Guardian* 30 June 2008

The Big Bang Machine / Cosmic building blocks / The particle menagerie

Today's Guardian features a special supplement on the most incredible scientific experiment ever - the Large Hadron Collider at Cern

Read more...

From *Guardian* 30 June 2008

Beyond the Standard Model

Experiments at Cern will tackle a dilemma at the heart of modern physics that defeated even Einstein, says Jim al-Khalili Read more...

vacation) destinations, keep your eyes open for cavity lookalikes like this one, spotted in Cornwall's Eden Project. There are more out there than you think! Send them to communicators@ linearcollider.org and they may show up in NewsLine...

Announcements

ILC Note

2008-046

Mechanical tests of Titanium-Stainless Steel bimetallic transition joints

arXiv preprints

0806.4905

Two-Loop QED Heavy-Flavor Contribution to Bhabha Scattering

0806.4560

Applying the POWHEG method to top pair production and decays at the ILC

0806.2698

Leptogenesis in the minimal extension of the Zee-Babu model

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