

Research Director's Report

A linear collider workshop at CERN

This month's Research Director's Report was written by François Richard, co-chair of the Worldwide Study, regional detector contact for Europe



The first joint ILC-CLIC workshop will be held in Geneva in October.

The linear collider community will meet at CERN from 18 October to 22 October. This workshop which deals with all aspects of our future project – Physics, Detectors and Machine – appears timely given the present linear collider strategy with the Compact Linear Collider (CLIC) Study and the International Linear Collider milestones for 2011 and 2012. This week, I recall the general context of this workshop, as seen from the European Committee for Future Accelerators (ECFA) Study's point of view, and discuss some of its contents, while Barry Barish is covering the machine aspects of this workshop in the Director's Corner. [Read more...](#)

-- François Richard

[Research Director's Report Archive](#)

Calendar

Upcoming meetings, conferences, workshops

[XXV Linear Accelerator Conference \(LINAC10\)](#)
Tsukuba, Japan
12-17 September 2010

[Topical Workshop on Electronics for Particle Physics \(TWEPP-10\)](#)
Aachen, Germany
20-24 September 2010

[Symposium on the Superconducting Science and Technology of Ingot](#)

Around the World

From DESY: European XFEL accelerator components go into production



Two companies have been commissioned to produce 300 cavities each for the European XFEL. Image: DESY

An important milestone was reached on the way to the European XFEL superconducting linear accelerator: the start of the industrial production of the superconducting accelerator structures. Yesterday and today, kick-off workshops took place to coordinate the future collaboration of DESY with two industrial firms. The superconducting accelerator structures are a joint contribution of DESY and INFN Milano, coordinated by DESY. [Read more...](#)

In the News

From *Tunnelling Journal*
14 September 2010
TJ Exclusive – Up to nine TBMs for new Collider
...Up to nine TBMs could be needed by 2016 to bore a 50km long, 5.6m i.d. hard rock tunnel for a new Linear Electron/Positron Collider currently being studied at Switzerland's CERN complex, *Tunnelling Journal* can reveal. [Read more...](#)

From *Softpedia*
11 September 2010
Superconductors and Future Particle Accelerators
Experts at Berkeley Lab recently took a hard look at how future particle accelerators will be powered, and naturally arrived at the conclusion that superconductor technologies need improvement. [Read more...](#)

From *Gazeta*
10 September 2010
ILC-2: что даст линейный

Director's Corner

IWLC2010: International Workshop on Linear Colliders 2010



The ECFA-CLIC-ILC Joint Workshop

This week I want to preview the coming ECFA-CLIC-ILC joint meeting that will be held from 18 October through 22 October 2010 at CERN and the International Conference Centre Geneva, Switzerland. This meeting is one further step towards bringing the Compact Linear Collider (CLIC) Study and ILC efforts closer together. Over the past two years, we have established a joint set of ILC and CLIC technical working groups, have established representation in each other's executive or steering committees, created a new joint general issues group and now will have a major joint workshop. This healthy development will enable our two overlapping communities to interact in a meaningful way, while at the same time carrying out each projects' major work. [Read more...](#)

-- Barry Barish

[Director's Corner Archive](#)

Image of the Week

Towards a brighter baseline



The first two back-to-back baseline assessment workshops (BAW) took place at KEK last week and results will be written up soon. The race is now on for the next two BAWs at SLAC from 18 to 21 January: will there be even brighter t-shirts? The second BAW will also focus on a different set of proposed changes to the ILC Technical Design Baseline: 'Reduced Beam Parameter set' and 'Positron Source Location'.

Announcements

ILC Preprint
[2010-001](#)

Niobium

Jefferson Lab, Newport News, USA
22-24 September 2010

1st International Workshop on Accelerator-Driven Sub-Critical Systems & Thorium Utilization

Virginia Tech, Blacksburg, Virginia, USA
27-29 September 2010

19th International Spin Physics Symposium (SPIN 2010)

Juelich, Germany
27 September - 2 October 2010

EUDET Annual Meeting 2010

DESY, Hamburg, Germany
29 September - 1 October 2010

High precision measurements of luminosity at future linear colliders and polarization of lepton beams

Tel Aviv University, Tel Aviv, Israel
3-5 October 2010

eCloud 2010

Cornell University, NY, USA
8-12 October 2010



International Workshop on Linear Colliders 2010 (IWLC2010)

ECFA-CLIC-ILC joint meeting
CERN and CIGC, Switzerland
18-22 October 2010

Upcoming schools

Fifth International Accelerator School for Linear Colliders

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

GDE Meetings calendar

[View complete ILC calendar](#)

коллайдер науке и технологиям?

Отличительные особенности детекторов ILC.

[Read more...](#) (in Russian)

From *Berkeley Lab*

10 September 2010

Superconductors Face the future

Futuristic ideas for the use of superconductors are myriad: long-distance, low-voltage electric grids with no transmission loss; fast, magnetically levitated trains; ultra-high-speed supercomputers; superefficient motors and generators; inexhaustible fusion energy—and many others, some in the experimental or demonstration stages.

[Read more...](#)

Governance of the International Linear Collider Project

arXiv preprints

[1009.2433](#)

Forward Instrumentation for ILC Detectors

[1009.2320](#)

Fitting of Z' parameters

[1009.1836](#)

Non-decoupling effects in supersymmetric Higgs sectors