

## Research Director's Report

### White paper on Comprehensive Project Design Guidance



A conceptual supporting model of a multinational-laboratory


Recently the International Linear Collider Steering Committee (ILCSC) published a white paper on the Comprehensive Project Design Guidance (CPDG), which describes the direction of the activity to promote ILC in its post-technical design phase beyond 2012. The document was proposed by the siting working group of the ILCSC and was discussed during the last ILCSC meeting in Paris. Now CPDG is open for [comments](#) from the community. [Read more...](#)

-- Sakue Yamada

[Research Director's Report Archive](#)

## Calendar

### Upcoming meetings, conferences, workshops

 [International Workshop on Linear Colliders 2010 \(IWLC2010\)](#)  
[ECFA-CLIC-ILC joint meeting](#)  
CERN and CIGC, Switzerland  
18-22 October 2010

[2010 IEEE Nuclear Science Symposium and Medical Imaging Conference](#)  
Knoxville, Tennessee, USA  
30 October - 6 November 2010

[SiD Workshop](#)  
University of Oregon, Eugene, Oregon, USA  
15-17 November 2010

[X-Band Structures, Beam Dynamics and Sources Workshop \(XB-10\)](#)  
Cockcroft Institute, Daresbury, UK  
30 November - 3 December 2010

## Feature Story

### Live from Geneva



Impressions from Geneva (click to view photo album)

For the first time in a meeting of this scope, this year's International Workshop on Linear Colliders in Geneva, Switzerland, brings together researchers from both of the world's major linear collider projects: the International Linear Collider and the Compact Linear Collider. Organised by the European Committee for Future Accelerators, the conference is held at CERN and at the International Conference Centre in Geneva. Scientists discuss the status of the two machines and the physics they could uncover. Break-out sessions allow scientists to exchange ideas related to accelerator and detector technologies. Our photo album shows some impressions from the first days. [View photo album](#)

## In the News

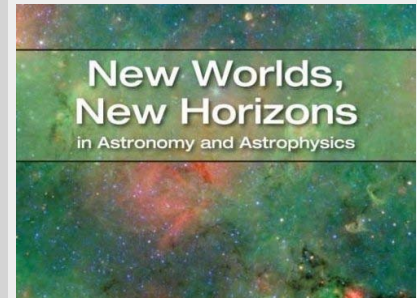
From *Phys Org*  
19 October 2010  
**The promise of ion beam cancer therapy**  
For certain kinds of cancer, the most effective therapy does not use x-rays or gamma rays but beams of ions, the electrically charged cores of atoms, including hydrogen ions (protons) and heavier ions such as carbon and neon  
[Read more...](#)

From *Telegraph*  
18 October 2010  
**'Telescope' buried a mile under the Antarctic ice to find source of cosmic rays**  
A "telescope" buried deep under Antarctic ice has detected the first signals that scientists hope will allow them to identify the source of mysterious particles that bombard Earth from outer space.  
[Read more...](#)

From *Wired*

## Director's Corner

### The convergence of astrophysics and particle physics



The new decadal survey for astronomy and astrophysics, Astro2010, gives high priority to particle astrophysics initiatives

One of the more interesting and important developments in our field over the past decade has been the convergence of particle physics and astrophysics. The scope of particle physics has grown in recent years to include what we commonly call particle astrophysics, where some of the most important particle physics questions are also of high importance for astrophysics. Consequently, the new decadal survey for astronomy and astrophysics, Astro2010, which sets out the priorities for those fields in the US for the next decade, is of increased interest and importance to particle physics. This is also reflected by the growing number of highly recommended projects that are requesting support from the National Science Foundation (NSF) physics and/or the Department of Energy (DOE) High Energy Physics programme.

[Read more...](#)

-- Barry Barish

[Director's Corner Archive](#)

## Image of the Week

### CLIC design study

The colleagues from CLIC, the Compact Linear Collider Study, are not only busy writing a Conceptual Design Report for next year, but have also revamped their logo and website. Under [www.clc-study.org](http://www.clc-study.org) you will find all about the project, the accelerator design, the study structure, the logo



## Upcoming schools

### [Fifth International Accelerator School for Linear Colliders](#)

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

### [US Particle Accelerator School \(USPAS\)](#)

Old Dominion University, Hampton, Virginia, USA  
17-28 January 2011

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### [GDE Meetings calendar](#)

### [View complete ILC calendar](#)

15 October 2010

### Large Hadron Collider Starts Edging Out Rivals

The Large Hadron Collider has made its first steps beyond the standard model of particle physics. With just four months of data gathered, the monster collider has already edged past the Tevatron, its particle-smashing rival.

[Read more...](#)

and of course their slogan: CLIC here for the future!

## Announcements

### arXiv preprints

#### [1010.4198](#)

Higgs boson decays and production in the left-right twin Higgs model

#### [1010.4139](#)

The neutral heavy scalar productions associated with  $Z_L$  in the littlest Higgs model at ILC and CLIC

#### [1010.1931](#)

Probing Anomalous Top-Gluon Couplings at Colliders