

## Feature Story

### From CERN: LHC research programme gets underway



Watch the re-run of the 7 TeV record collisions in the four detectors of the LHC. (Video: CERN Audiovisual Service)

Geneva, 30 March 2010. Beams collided at 7 TeV in the LHC at 13:06 CEST, marking the start of the LHC research programme. Particle physicists around the world are looking forward to a potentially rich harvest of new physics as the LHC begins its first long run at an energy three and a half times higher than previously achieved at a particle accelerator.  
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## BlogLine

30 March - *Frank Simon*  
[Changing Gears](#)

30 March - *Frank Simon*  
[LCWS: A Quick Look Back](#)

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## Calendar

### Upcoming meetings, conferences, workshops

[TESLA Technology Collaboration \(TTC\) Meeting](#)

Fermilab, IL, USA  
19-22 April 2010

[XIV International Conference On Calorimetry In High Energy Physics \(CALOR2010\)](#)

IHEP, Beijing, China  
10-14 May 2010

[The 1st International Particle Accelerator Conference \(IPAC'10\)](#)

Kyoto, Japan  
23-28 May 2010

### Upcoming school

## Around the World

### Impressions from Beijing



Impressions from Beijing. Photos: IHEP/Jie Liu and Nobu Toge.

On 30 March, the Beijing meeting ended on a high note. Nearly 300 participants, together with local and scientific organising committees, worked hard to make this meeting a success while at the same time, in Geneva, the Large Hadron Collider (LHC) opened a new page in particle physics history. "It's a day of celebration," concluded Jon Bagger, Chair of the International Linear Collider Steering Committee, "the day where we start lighting the Terascale." The ILC will build on LHC discoveries, and to make this project a reality the whole ILC community gathered in Beijing. There were deep discussions between the accelerator and the physics and detectors experts of a level that has never happened before in such a global meeting. All use each others' feedback during the workshop to draw up what will be their plans for the next two years, when in 2012 they deliver the *Technical Design Report* (for the machine) and the *Detailed Baseline Design* of the detectors reports. A lot of reviews, R&D and studies are still to be done but participants now leave Beijing with clear ideas on what path to follow to achieve them.

[Slides](#)

See the [photo album](#) for a few impressions.  
Photos: IHEP/Jie Liu, and Nobu Toge.

## In the News

From [earthsy.org](#)  
29 March 2010  
**Barry Barish hunts for dark matter in our universe**

## Director's Corner

### "Physics" at the Beijing Linear Collider Workshop



Murayama's map of the world of possibilities for the future of particle physics. (Courtesy of Hitoshi Murayama)

A highlight of the opening day plenary session at the Linear Collider Workshop 2010 at Beijing from 24 to 29 March 2010 was a talk given (over video from Kashiwa, Japan) by Hitoshi Murayama simply entitled "*Physics*." In actuality, Hitoshi addressed a rather specific physics subject, that of the "*Physics Case for the ILC*." In a sense, this talk was both a personal update of the prospects for physics at the ILC and direct comments on the various 'myths' and 'facts' commonly heard about the ILC. As usual, Hitoshi's talk was both interesting and inspirational.  
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-- Barry Barish

[Director's Corner Archive](#)

## Announcements

### arXiv preprints

[1003.5641](#)

Full one-loop electroweak corrections to  $e^+e^-$  to 3 jets at linear colliders

[1003.4586](#)

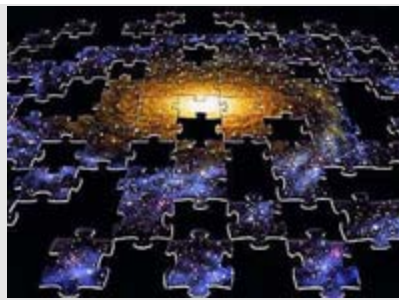
Including QCD Radiation Corrections in Transplanckian Scattering

[CERN Accelerator School \(CAS 2010\):  
Course on RF for Accelerators](#)  
Ebeltoft, Denmark  
8-17 June 2010

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[GDE Meetings calendar](#)

[View complete ILC calendar](#)



Download audio: [90s](#) [8m](#)  
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From *The Independent*  
1 April 2010  
**Hadron Collider II planned for  
Circle Line**  
[Read more...](#)

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From *the Associated Press*  
30 March 2010  
**Geneva atom smasher sets  
collision record**  
[Read more...](#)

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From *swissinfo.ch*  
30 March 2010  
**Multiplés «bangs» dans les  
entrailles du CERN**  
[Read more...](#)

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From *ABC.es*  
30 March 2010  
**Ni agujeros negros, ni materia  
extraña: El fin del mundo puede  
esperar**  
[Read more...](#)

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From *The New York Times*  
30 March 2010  
**European Collider Begins Its  
Subatomic Exploration**  
[Read more...](#)

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From *the Guardian.co.uk*  
30 March 2010  
**Large Hadron Collider: Live!**  
[Read more...](#)

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From *Article Ant*  
30 March 2010  
**UO physicists thrilled at the LHC's  
opening of a new frontier**  
[Read more...](#)

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From *Tagesthemen, ARD*  
30 March 2010  
**Erfolgreiche Protonen-Kollision  
setzt Rekordenergie frei**  
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