

Around the World

From SLAC Today: New Modulator Prototype Put to the Test



Technician Alfred Vicalal opens the Marx modulator's cage to perform fine tuning during downtime. (Photo by Lauren Schenkman.)

Yesterday, a team of physicists and engineers from SLAC National Accelerator Laboratory completed initial testing on a new power source, the Marx modulator, connected to its target device, and launched a yearlong test. This test will be the final step in proving the reliability of a device poised to transform the way particle accelerators are powered. [Read more...](#)

-- Lauren Schenkman, SLAC Today

BlogLine

Calendar

- 21 June - Frank Simon
[A bike ride with new equipment](#)
- Upcoming meetings, conferences, workshops
- 18 June - Ingrid Gregor
[ILC-CLIC LEP Beam Dynamics](#)
- A view to hill
[Workshop at CERN](#)
- CERN, Switzerland
[Follow all Quantum Diaries](#)

Feature Story

Key evaluations underway for particle-flow calorimetry



Frank Simon works on the CALICE analog hadron calorimeter at Fermilab's Meson Test Beam Facility.

Scientists just finished successfully testing the first particle flow algorithm hadronic calorimeter for the International Linear Collider, with unprecedented granularity and novel readout technology. This sub-detector, the analog hadronic calorimeter, was built by the [CALICE](#) (Calorimeter for the Linear Collider Experiment) collaboration and is one of several options for the hadronic calorimeter of a future ILC detector. [Read more...](#)

-- Andre Sulluchuco

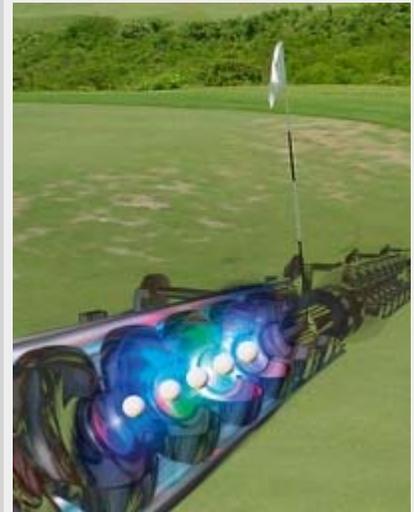
In the News

From *CERN*
19 June 2009
CERN reports on progress towards LHC restart
At the 151st session of the CERN[1] Council today, CERN Director General Rolf Heuer confirmed that the Large Hadron Collider (LHC) remains on schedule for a restart

Director's Corner

The other kind of particle acceleration

Today's issue features a Director's Corner from Mike Harrison, GDE Americas Regional Director.



What can the ILC learn from a major golf tournament? Read the Corner to find out.

The ILC, when built, will represent the latest in technology innovation and will be a global effort involving world-class talent. The Accelerator Design and Integration meeting held at DESY a few weeks ago is an example of the design process in action. However, ensuring that we involve input from all relevant sources is part of a Regional Director's job and, with this in mind, I found myself attending the first day of the US Open golf tournament, held this year a few miles down the road from my home institution of Brookhaven Laboratory at the famed Bethpage Black golf course. [Read more...](#)

-- Mike Harrison

[Director's Corner Archive](#)

Feature of the Week

symmetry Magazine: Credit

23-25 June 2009

[Polarized Positron for Linear Colliders Workshop \(Posipol 2009\)](#)

IPNL, Lyon, France
23-26 June 2009

[Mini-Workshop on the CEsrTA Electron Cloud R&D Program for Linear Collider Damping Rings \(CTA09\)](#)

Cornell University, NY, USA
25-26 June 2009

[FCAL meeting](#)

DESY Zeuthen, Germany
29-30 June

Upcoming schools

[Summer School: Exploring the Cosmological Frontiers](#)

Perimeter Institute, Waterloo, Canada
24 June - 1 July 2009

[International School of Physics "Enrico Fermi" \(SIF\)](#)

[Radiation and particle detectors](#)
Varenna, Villa Monastero, Italy
20-25 July

[GDE Meetings calendar](#)

[View complete ILC calendar](#)

this autumn, albeit about 2-3 weeks later than originally foreseen.

[Read more...](#)

From *CERN Bulletin*
19 June 2009

The latest from the LHC

Sector 4-5 is being warmed to room temperature. The sector was previously warmed to 80 Kelvin in order to perform a test on the copper component of the busbars at non-superconducting temperatures.

[Read more...](#)

From *Optics.org*
19 June 2009

Europe's big lasers: the exawatt roadmap

Researchers and industry will need to work closely together if Europe is to maximize the returns on its investment in a planned new generation of high-power laser facilities being built over the next decade. Caryl Richards reports on the challenges and opportunities of big science.

[Read more...](#)

From *Asian Accelerator Plaza*
11 June 2009

China, Japan, and Korea issued a joint statement on science and technology cooperation

The second Japan-China-Korea Trilateral Ministerial Meeting on Science and Technology Cooperation was held on Sunday, 24 May in Tokyo.

[Read more...](#)

Where Credit is Due



If you believe the scientists' maxim that only publishing keeps you from perishing the world won't see many perishing particle physicists in the near future. With up to 3000 people signing papers for the ATLAS or CMS collaborations and similar numbers on the horizon for future ILC detectors how do you know who actually did the work? This [lead article](#) from symmetry Magazine portrays the weird and wonderful world of scientific publishing.

Announcements

arXiv preprints

[0906.3805](#)

On pair production of scalar top quarks in e^+e^- collisions at ILC and a possibility of their mass reconstruction

[0906.3592](#)

SRF cavity geometry optimization for the ILC with minimized surface e.m. fields and superior bandwidth

EUROTeV Reports

[2008-098](#)

ILC Main Linac Alignment Simulation Using Conventional Techniques and the Rapid Tunnel Reference Survey Model (RTRSM)