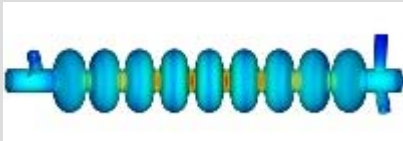


Around the World

From SLAC Today: Simulating a More Efficient Linear Collider



An electromagnetic mode contributing to wakefield effects in a superconducting ILC cavity, as calculated by SLAC's Advanced Computations Department team. Reds, oranges and yellows indicate strong fields, greens and blues weaker ones. (Image courtesy of Greg Schussman.)

Scientists around the world are working hard to hammer out a workable blueprint for the next big particle accelerator, the International Linear Collider, by 2012. A group at SLAC is doing its part, running supercomputer simulations to maximize the accelerator's performance and keep costs down on the proposed multi-billion-dollar collider.

[Read more...](#)

-- Michael Wall, SLAC Today

Calendar

Upcoming meetings, conferences, workshops

[11th European Symposium on Semiconductor Detectors](#)

Wildbad Kreuth Conference Center, Bavaria, Germany
7-11 June 2009

[Tesla Technology Collaboration Meeting \(TTC09\)](#)

LAL, Orsay, France
16-19 June 2009

[ILC-CLIC LET Beam Dynamics Workshop at CERN](#)

CERN, Switzerland
23-25 June 2009

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

IPNL, Lyon, France

Feature Story

Spiralling under control

Positron source R&D makes progress



James Rochford checking the performance of the undulator cryomodule.

The team developing the ILC's positron source have every reason to be positive. Recent tests have shown both that the four-meter helical undulator prototype – a device that will produce an intense beam of polarised gamma rays – works in its cryomodule, and that the target that will produce the positrons themselves can reach its design rotation speed of 2000 revolutions per minute.

[Read more...](#)

-- Barbara Warmbein

BlogLine

5 June - [Frank Simon](#)
[Public Talk: Particle Physics at the Terascale](#)

5 June - [Tony Hartin](#)
[Murder by Maxwell's equations - or](#)

Director's Corner

An official change of name

A strategy has been emerging over the past months to define a new baseline configuration for the ILC Technical Design Report (TDR). Beginning with the well-established Reference Design Report (RDR) configuration, we are selectively proposing changes that can significantly improve the cost to performance to risk. The anticipated final configuration has been referred to as the "Minimum Machine," however this misnomer has caused endless misunderstandings and misinterpretations. A new, more descriptive name for the process we are undertaking, **Accelerator Design and Integration (AD&I)**, became official at the first working meeting towards defining a new ILC baseline held at DESY from 28 to 29 May. Much was accomplished and points of contention were defined at this lively interactive working meeting.

[Read more...](#)

-- Barry Barish

[Director's Corner Archive](#)



Ewan Paterson, GDE Integration Scientist at the DESY workshop. He is playing a lead role in integrating the central beam tunnel configuration

Image of the Week

Not bad!

Last week we showed you a picture of a couple of shoes asked you to send us your theories as to what those shoes are up to and why. While one person managed to identify all of the shoe owners (congratulations, Maxine — but you had a head start because you see

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

[The 2009 Hadron Collider Physics Summer School](#)

CERN
8-17 June 2009

[Summer School on Particle Physics, Cosmology and Strings](#)

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](#)

[How I learnt to love the magic bullet](#)

[Follow all Quantum Diaries](#)

In the News

From *CERN Courier*

8 June 2009

Viewpoint: Big Science, bigger outreach

...Undoubtedly outreach must convey to society the excitement of scientific discovery and the importance of technological returns. However, in my opinion, the message from science should not stop there.

[Read more...](#)

From *CERN bulletin*

8 June 2009

The latest from the LHC

In Sector 3-4 the full length of the beam lines have been closed and work is currently ongoing to finish the final electrical interconnections.

[Read more...](#)

From *Nature*

5 June 2009

Historic deal for German science

German universities and research organizations will receive an €18-billion (US\$25-billion) windfall of new money over the next decade

[Read more...](#)

those shoes all the time!) another guessed that it's "School kids all heading out for summer." Two readers obviously heard fiddles and tin whistles playing: "really smart physics people practicing "RIVERDANCE" while on layover at the Dublin Airport" guessed one, while the other thinks that the "GDE is starting to incorporate Irish jigs into their regular routines to encourage creative thinking and new ideas." And what is it really? Participants at the re-baseline meeting held at DESY (see this week's Director's Corner) continuing discussions in a German beer garden. Well done, everyone!

Announcements

arXiv preprints

[0906.1646](#)

Neutrino Masses, Leptogenesis and Decaying Dark Matter

[0906.0672](#)

Can colliders disprove leptogenesis?

[0906.0662](#)

Testing the Littlest Higgs Model with T-parity in Bottom Quark Pair Production at High Energy Photon Colliders

ILC Internal Document

[2009-035](#)

Summary report of the first meeting on Accelerator Design & Integration 28-29th May, DESY