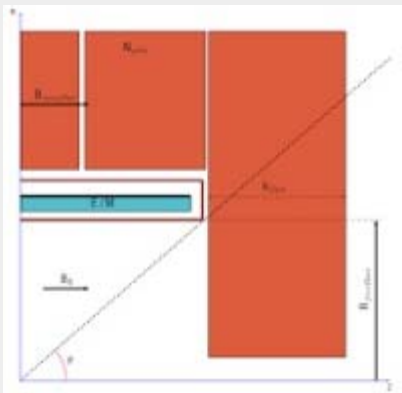


Research Director's Report

CLIC-ILC collaborations on detectors

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



Parametric model for the magnet coil and yoke (from Alain Hervé). This concept is common to CMS, ILD, SiD and CLIC.

The recent meeting [TILC09](#) in Tsukuba, with a large participation of CERN experts, was a good opportunity to measure the growing collaboration between the Compact Linear Collider Study (CLIC) and the ILC. Here I will only describe the detector aspects which are part of the Memorandum of Understanding (MOU) agreement signed between ILC and CLIC (see [Barry Barish's corner](#) in November 2008). This agreement results from the evident common interests of the two communities in machine and detector studies and the need to avoid potentially detrimental competition. In the past, physics arguments in favour of extending the centre of mass energy of the worldwide linear collider beyond 1 TeV were based on speculations. With the imminent start of LHC, not forgetting the present essential results from the Tevatron, we all agree that the choice can soon be based on solid observations.

[Read more...](#)

-- François Richard

[Research Director's Report Archive](#)

Around the World

University of Notre Dame collaborates on muon detector development project



ILC prototype crew at University of Notre Dame gathered around the muon detectors built on-site.

Most particle physicists think that the International Linear Collider (ILC) could revolutionise our understanding of the universe, and will challenge inquisitive minds of particle physics. This is a field where University of Notre Dame in Notre Dame, Indiana, US, has been actively participating, particularly in muon detector research and in organising outreach activities between students, high school teachers and physicists.

[Read more...](#)

-- Andre Sulluchuco

BlogLine

18 May - [Frank Simon](#)
[The Final Shift](#)

17 May - [Frank Simon](#)
[Angels and Demons](#)

16 May - [Frank Simon](#)
[Life on Shift](#)

[Follow all Quantum Diaries](#)

In the News

From *Associated Press*
19 May 2009

European scientists launch new space telescope

...Unlike Hubble, which has become famous for its breathtaking images of the heavens, Herschel and Planck work in non-visible wavelengths of light. But they will provide scientists with crucial information about planet

Director's Corner

Learning accelerator science

Today I want to encourage young researchers interested in becoming accelerator scientists to consider applying to participate in our "[Fourth International Accelerator School for Linear Colliders](#)." It will be held from 7 to 18 September 2009 near Beijing, China, and the application deadline of 1 June is fast



Bruno Touschek developed the first generation of electron-positron colliders at Frascati, Italy in the 1960s.

approaching. Our previous schools have been extremely successful, presenting unique opportunities to learn the basics of accelerator science from leaders in the field, and to study challenging applications for a next-generation linear collider. In addition, this year's school will include two tracks, one on radiofrequency (rf) technology and one on accelerator physics, offering more in-depth learning for returning and more advanced students.

[Read more...](#)

-- Barry Barish

[Director's Corner Archive](#)

Image of the Week

Calorimeters in test beam at Fermilab

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
23-26 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](#)

and star formation.

[Read more...](#)

From *Reuters*

14 May 2009

Austria to stay in particle physics lab after all

"Austria has been a member of CERN for over 50 years -- a whole host of Austrian scientists are linked to CERN and will continue to do so in the future," Faymann, a social democrat, said at a news conference with Science Minister Johannes

[Read more...](#)

From *Wiener Zeitung*

14 May 2009

Ritt auf Plasmawelle soll Elektronen effizienter aufladen

...Während im LHC Protonen zusammenprallen, haben die Max-Planck-Wissenschaftler mit Kollegen der Universitäten in Düsseldorf und Novosibirsk ein Konzept für einen International Linear Collider (ILC) vorgeschlagen, um Elektronen zu beschleunigen.

[Read more...](#)

From *INFN*

14 May 2009

Important step-forward towards the SuperB realization

...The main result of the test is reported in the figure where one can clearly see the gain in luminosity obtained when applying the "crab-waist" configuration for the interaction region.

[Read more...](#)

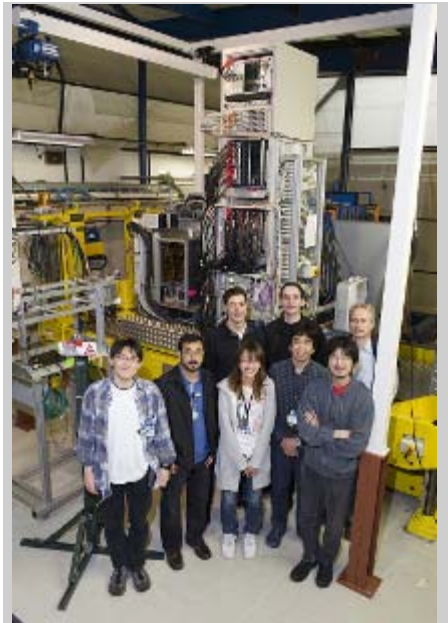
From *Público*

8 May 2009

La extinción de los mastodontes de la física

...El caso del ILC muestra que la construcción de máquinas cada vez mayores y más potentes para explorar los abismos de la física puede tener cerca su límite. Tevatrón, el acelerador en activo más energético, costó unos 200 millones de euros; LHC, siete veces más potente, 5.000.

[Read more...](#)



Some members of the CALICE collaboration stand in front of the calorimeters currently at Fermilab's Meson Test Area. Back row: (left to right) Frank Simon, Nils Feege, Jose Repond. Front row: (left to right) Shunsuke Tozuka, Adil Khan, Miho Nishiyama, Katsushige Kotera and Satoru Uozumi.

Read more about calorimeter testing in [Fermilab Today](#) and in Frank Simon's blog entries in [Quantum Diaries](#) (see BlogLine).

Announcements

arXiv preprints

[0905.2922](#)

Top Quark Physics at the Tevatron

[0905.2655](#)

Cosmic Ray Tests of the Prototype TPC for the ILC Experiment

[0905.1782](#)

CP-sensitive spin-spin correlations in neutralino production at the ILC

EUROTeV Reports

[2008-091](#)

Low-energy Positron Polarimetry at the ILC

[2008-093](#)

Final Report for the Laser-wire Beam Position Monitor (LBPM) Task

