



ILC Communication

Perrine Royole-Degieux, Barbara Warmbein

ILC Communications Europe



Overview

- ❑ Who we are, what we do and why we do it
- ❑ What that means for you
- ❑ How you can help
- ❑ Summary



Who we are



Elizabeth Clements,
FNAL

Youhei Morita,
KEK

Perrine Royole-
Degieux, LAL

Barbara Warmbein,
DESY



What we do

We communicate!

- Newsline www.linearcollider.org/newsline
- www.linearcollider.org
- Brochures, flyers, stickers and other pretty things
- Press releases, contact with media
- Sense of community; industry; decision makers
- Outreach activities
- Quantum Universe, Discovering the Quantum Universe, CERN Council Strategy Group glossy brochure, Symmetry magazine

ILC NewsLine

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11 May 2006

Around The World

Possible Proposal Presented for ILC Test Beam Facilities at Fermilab

One possible location for placing a line inside the Tevatron ring as a test

Feature Story

String theory into practice

Cleanroom technicians ensure that every part is carefully aligned. Dust is never a welcome thing. But in DESY's cleanroom, where the cavity

Director's Corner

Baseline Damping Rings

Dynamical aperture for one of the reference lattices

One of the more difficult decisions we made last fall was which damping ring option to choose for our baseline. No recommendation came

- Latest news every week on Thursday
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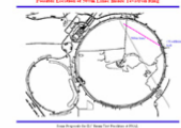
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Around The World

Possible Proposal Presented for ILC Test Beam Facilities at Fermilab



One possible location for placing a linac inside the Tevatron ring as a test facility for the ILC.

Before the International Linear Collider can be built, physicists and engineers must prove that the proposed baseline design will achieve the desired physics, requiring testing and R&D at laboratories and institutions around the world. As part of this process, Fermilab's Mike Church recently shared with attendees, at a weekly ILC R&D meeting, one possible proposal for ILC Test Beam Facilities that would utilize the lab's already existing infrastructure.

In an early stage of development and not yet endorsed by Fermilab management, the proposal will continue to be evaluated and reviewed not only by the lab but also by the Global Design Effort and the Department of Energy. "This is a work in progress," Church said. "We haven't thought too seriously about cost, location or a timeline yet. The tiered proposal allows you to make more rational decisions about what you're getting."


Put together by a team of scientists in March 2006, Church outlined a five-tiered plan in which each facility requires the previous one to be developed. With parts of the proposal already in action at Fermilab, the 5-tiered proposal is as follows:

- 1) **e⁻ source:** Continue the ongoing R&D at the Azuro photoinjector to study emittance preservation in a superconducting linac.

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Feature Story

String theory into practice



Cleanroom technicians ensure that every part is carefully aligned.

Dust is never a welcome thing. But in DESY's cleanroom, where the cavities for the famous Module 6 are being assembled into a string this week, it is simply not tolerated: ten particles per cubic foot, that is all that is allowed. Any speck more would jeopardise the cavities' unique feature – their high gradient. So the seven DESY specialists working on the eight cavities are extremely careful, every touch is carefully engineered.

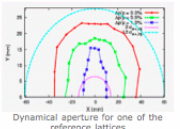
The string that is being assembled this week is for Module 6 – the last in the line for FLASH, the European XFEL's pilot facility and paid for by XFEL funds and the Europe-funded EUROFEL project. "This one is a multi-purpose module," explains Axel Mathiesen, leader of the cavity preparation and assembly group. It doesn't only serve its main future purpose, accelerating electrons in FLASH, but many others at the same time: "We're testing the working procedure to assemble the module. The industry is looking over our shoulder to see how the process can be turned into mass production, and they check whether things can be changed and improved," says Mathiesen. But that's not it yet: two scientists from Fermilab are also at DESY to learn the process first-hand and use it for the first American module, to be built by the end of this year. And of course it's important lessons to learn for the XFEL which will need 128 of these modules, containing 1000 cavities.

Read more...

-- Barbara Warmbein

Director's Corner

Baseline Damping Rings



Dynamical aperture for one of the reference lattices

One of the more difficult decisions we made last fall was which damping ring option to choose for our baseline. No recommendation came out of the Snowmass Workshop and our damping ring working group continued to study the question through much of the fall. They recommended a 6 km circular damping ring for electrons and two 6 km rings, one stacked above the other, for positrons.

The Damping Ring group has documented their work in an impressive [300 page document](#) entitled, "Configuration Studies and Recommendations for the ILC Damping Rings" edited by A. Wolski (LBNL, Berkeley, CA), J. Gao (IHEP, Beijing, China, and S. Guiducci (LNF, Frascati, Italy) on behalf of the 47-member working group.

I commend this fine piece of work and recommend all those interested in the technical details of the ILC and the reasoning behind this particular design choice, to download and read this document. As a reminder, the job of the damping rings in the ILC is to sufficiently reduce the emittance of the beams by synchrotron radiation before the beams enter the main linac to be accelerated to 250 GeV. (see Director's Corner, [23 November 2005](#)) This is a challenging task because of such things as the long beam pulse, the large number of bunches, and the bandwidth of the injection / ejection kicker magnets.

Comparisons of damping rings options were performed in a "parametric study" by using a range of lattices that represented a variety of different configuration options.

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- 1313 subscribers in April
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- Survey - what you like and don't like, to be discussed at interactions.org meeting in Japan end of May
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- Need more European stories!
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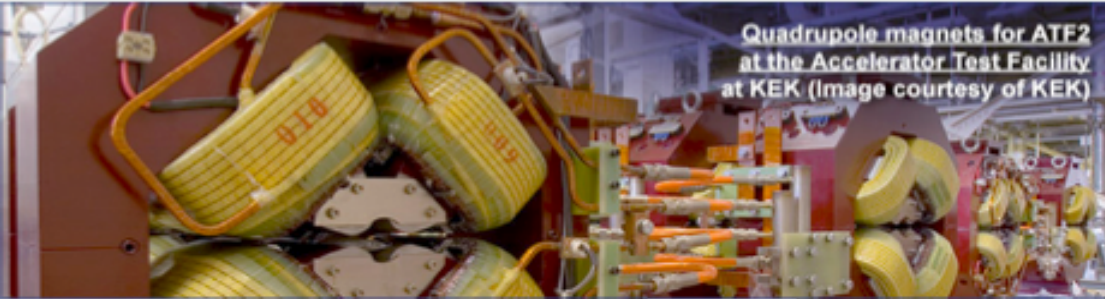
ILC International Linear Collider

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Quadrupole magnets for ATF2 at the Accelerator Test Facility at KEK (Image courtesy of KEK)



Latest News

From Interactions.org
9 May 2006
[Particle Physics Panel Launches "Discovering the Quantum Universe" Report](#)
"Scientists of the High Energy Physics Advisory Panel, a group of distinguished physicists that provides advice to the Department of Energy's Office of Science and to the National Science Foundation, today (May 9) announced the launch of a new publication that explains the excitement of 21st-century particle physics to audiences who are not science experts..."

From Interactions.org
2 May 2006
[The Revolution in 21st Century Particle Physics Brian Greene talks to Congress](#)
"Renowned physicist and author Brian Greene will address the Congressional Research and Development Caucus


Features

ILC NewsLine
11 May 2006
String theory into practice

Discovering the Quantum Universe
Website Launched

EPP2010 Report Released
[Download Report](#) (pdf)
[Press Release](#)

Announcement
[Nozaki Announced as New ILC GDE Regional Director of Asia](#)



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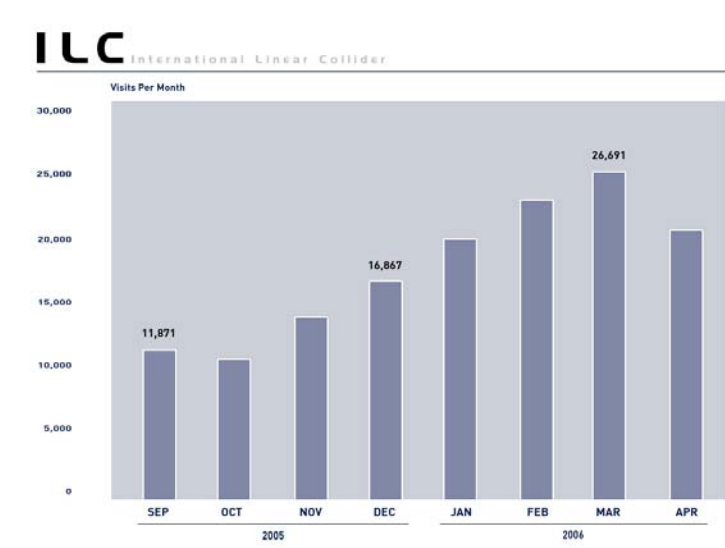


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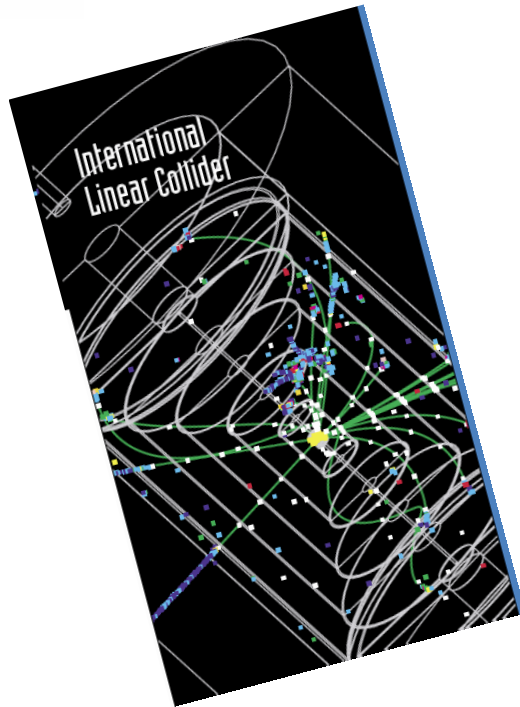
The main portal for up-to-date news on the ILC, background information, the GDE (with photos!), photo database and different pages for different audiences (the community, educators, press etc). Currently for the ILC community, soon also for the general public.

We are currently working on a re-vamp of the site with even more background info.

Record no.of hits in March:
26 691

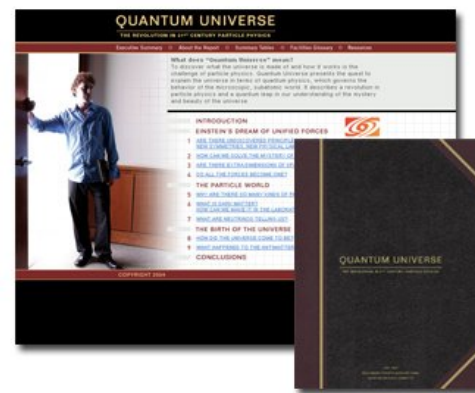


What else?



- Publications
- Brochure
- Poster
- Talks
- Media training
- Corporate identity (read Newsline tomorrow)

QUANTUM UNIVERSE THE REVOLUTION IN 21ST CENTURY PARTICLE PHYSICS



DISCOVERING THE QUANTUM UNIVERSE THE ROLE OF PARTICLE COLLIDERS





Around the World

- Different cultures
- www.linear-collider.org
- Newsline translated into Japanese every week
- Outreach advisory committee in Europe, to be proposed globally
- Visits, meetings
- EPP 2010
- Interactions.org
- Events (ESOF 2006, Girls' Day, industry forums, French press, science festivals...)

ILC project

“宇宙の謎”を解き明かす鍵となる次世代大型加速器プロジェクト「リニアコライダー計画」

NEWS ABOUT ILC DICTIONARY Q&A COLUMN MEDIA LINK

最新情報 GO

2006/5/10 りにあこらいだー的見学会 in KEK 更新

2006/4/17 コラム 更新

2006/4/5 研究者さんアンケート 更新

2006/4/5 ILCデザインチームのアジア地域責任者に野崎光昭氏が決定!

2006/3/9 ダウンロード 更新

ABOUT ILC

アインシュタイン以来の科学の大革命。時空と物質、重さの起源を解明する。

世界中の物理学者たちがその誕生を待ち望む、世界最大最高の高エネルギー電子加速器「リニアコライダー」について知ろう。

リニアコライダー計画

リニアコライダー LHC/

リニアコライダー

マイクロから りにあこらいだー b.cern.ch/

don, les images et des liens du monde entier sur la physique de particules.

L'aventure des particules : Un guide interactif (quizz, vidéo) pour comprendre la théorie des particules élémentaires et les questions qu'elle soulève. <http://cpep.lal.in2p3.fr/adventure.html>

4日号 月27日号 月20日号

... un futur projet ?

le Collisionneur Linéaire International à électrons <http://www.linearcollider.org/>

Lettre électronique : <http://www.linearcollider.org/newsline/>

@ contact communication LHC (IN2P3/CNRS) et International Linear Collider (Europe) : royole@lal.in2p3.fr

d'une particule de Higgs et d'un boson Z auprès d'un collisionneur linéaire à électrique du collisionneur LHC avec, au fond, une vue aérienne de son tracé à la frontière s l'axe central du tunnel LHC. © CERN ; sur cette page : A gauche, simulation de la IS, © CERN. A droite, vue artistique d'une collision électron-antélectron auprès d'un



Why do we do this?



Because we want to
build the ILC!



Why do we do this?

International Land Coalition

Interactive
Learning Center
(AU)

International Law
Commission (UN)

Indigenous Land
Corporation (AU)

Istituto di
Linguistica
Computazionale
(IT)

Immanual Lutheran
College (US)

International Lisp
Conference (UN)

Icelandic Love Corporation
Gjorningaklubburinn
(IS)



Make a difference





What does this mean for you?

You always know what's going on.

You can let others know what's going on in your lab and your R&D.

Europe gets more coverage.

You get support for all communication issues.

You can please your industrial partners.

You can get stuff in your own language.

You are part of the adventure ILC!



BUT



We need your help.

- ✓ Got a story? Tell us what's going on. We'll write a nice article. You don't even have to do anything.
- ✓ Got a worry? Talk to us.
- ✓ Got nice pictures? Send them to us.
- ✓ Don't know how to talk to the media? Talk to us!
- ✓ Got suggestions, complaints, constructive feedback? Use the 'submit suggestions' link on www.linearcollider.org/newsline or tell us about it.
- ✓ Got some money lying around...?
- ✓ Don't forget Communications interests in the RDR. Allocate some budget and make the machine visitable.

Talk to us!



This is us

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Summary

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- Communication is important
- And it's everybody's job
- We are here to help
- And we do what we can
- Let's build the ILC!

- Thank you.