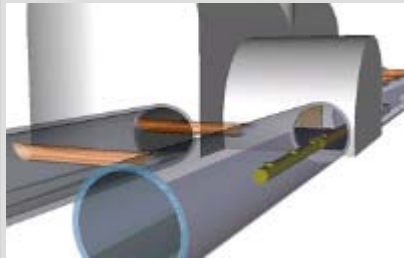


### Feature Story

#### Let me not to the marriage of three CADs...

Engineers and scientists look at the ILC in three dimensions



3-D tunnel vision: the results of a modelling integration trial gives first glimpses of what the ILC tunnel could look like.

In order to have a detailed and visual model of the ILC tunnels, shafts, accelerator components, beam pipes and support lines, a team from around the world has just shown that they can produce three-dimensional ILC models. These will be crucial for efficient future planning and integration and will now be extended to other areas than the one of the sample exercise.

[Read more...](#)

-- Barbara Warmbein

### Calendar

#### Upcoming meetings, conferences, workshops

[Particle Accelerator Conference 2009 \(PAC09\)](#)

Vancouver, Canada  
4-8 May 2009

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

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

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

CERN, Switzerland  
23-25 June 2009

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

### Around the World

#### Impressions from TILCO9



Big international meetings always mean a lot of preparation for many people — not only for the local organisers like the team who smoothly and perfectly hosted the 200+-participant meeting held in Tsukuba, Japan, until Tuesday this week. Participants have to prepare for these meetings as well. The TILCO9 workshop was particularly intense for the whole community: half of the participants had just passed a phase of night-long writing and editing sessions for the Letters of Intent (LOI) for the ILC detector concepts, while the other half spent weeks preparing for an internal review of the accelerator held all of last week. The accelerator review report will be published in the coming weeks and detector concept validation will be presented this autumn. [See the photo album](#) for a few impressions. Photos: Nobu Toge, Perrine Royole-Degieux

### In the News

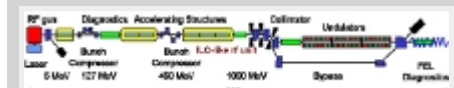
From SLAC  
21 April 2009

#### New Era of Research Begins as World's First Hard X-ray Laser Achieves "First Light"

X-Ray laser pulses of unprecedented energy and brilliance produced at SLAC

### Director's Corner

#### FLASH – ILC-like beam tests at DESY



Layout of the former TESLA test facility TTF or FLASH at DESY

Developing high-gradient superconducting radiofrequency (rf) cavities, cryomodules and rf systems for the ILC is at the heart of our R&D programme. An essential part of this programme will be systems tests, including tests with beams. Before we can develop our own test systems that use ILC modules, we are making a series of important tests using the FLASH free-electron laser linac at DESY. These tests are enabling us to have an early look at a variety of questions by using an electron linac operating near our reference design gradients and with nominal ILC-like beams.

[Read more...](#)

-- Barry Barish

#### [Director's Corner Archive](#)

### BlogLine

22 April - [Frank Simon Beijing](#)

17 April - [Tony Hartin Bibliothèque/Библиотека/Library](#)

16 April - [Frank Simon Future Accelerators: Surfin' the Plasma Wave](#)

[Follow all Quantum Diaries](#)

### Announcements

#### arXiv preprints

[0904.2213](#)

Spontaneous R-Parity Breaking in SUSY Models

#### EUROTeV Reports

IPNL, Lyon, France  
23-26 June 2009

#### Upcoming schools

##### [Terascale Monte Carlo school 2009](#)

DESY Hamburg, Germany  
20-24 April 2009

##### [School on Calorimetry at the International Linear Collider](#)

China Center of Advanced Science and Technology, Beijing, China  
22-26 April 2009

#### [GDE Meetings calendar](#)

#### [View complete ILC calendar](#)

#### [Read more...](#)

From *SLAC Today*  
20 April 2009

#### **SiD Reaches Design Milestone**

"There is a level of sophistication in these documents that I think has never before been presented at this level of detector design," said Jaros. "Everyone who has worked on this deserves a lot of praise."

#### [Read more...](#)

From *Technology Review*  
20 April 2009

#### **Physicists propose new kind of quantum tunneling**

Quantum tunnelling of a new, third kind could finally put string theory to the test

#### [Read more...](#)

From *Physorg.com*  
20 April 2009

#### **Can R2 gravity explain dark matter?**

"In many ways, the standard model of cosmology works very well," Jose Cembranos tells PhysOrg. "However, there are very basic features that we just do not know."

#### [Read more...](#)

From *DESY*  
16 April 2009

#### **Clear the ring for PETRA III**

World's best synchrotron radiation source accelerates its first beam

#### [Read more...](#)

#### [2008-079](#)

Performance of a Nb3Sn Superconducting Quadrupole in an External Solenoid Field

#### [2008-080](#)

Studies of Damping Ring Low Emittance Tuning

#### [2008-082](#)

DR Deliverable 1: Documented and Experimentally Benchmarked Code for e-Cloud Simulations

#### [2008-083](#)

DR Deliverable 2: Report on Impact of e-Cloud and Fast Ion Instabilities on DR Performance, Including Recommendations for Controlling the Effects

#### [2008-084](#)

DR Deliverable 4: Report on Comparative Studies of Beam Based Alignment