

Feature Story

9 mA revisited

Machine experts run DESY's FLASH accelerator under ILC parameters



Concentrated faces in DESY's main control room.

The last two weeks were two of the most important (and intense) weeks for accelerator specialists working on the ILC. After a long period of preparation and a series of first tests, they have just finished a period of successfully running the superconducting linear accelerator FLASH at DESY under ILC-like conditions to demonstrate that a long train of electron bunches with high charge can be produced in and travel through the accelerator – and stay there, too. After the ILC-like run, which ended on Monday after long day and night shifts in the control room, FLASH will receive a major upgrade to improve capabilities and performance for the users of the laser light generated by FLASH.

[Read more...](#)

-- Barbara Warmbein

BlogLine

23 September - *Ingrid Gregor*
[Into thin air](#)

Feature Story

ILC NewsLine Survey result



NewsLine readers want to read more physics stories. Image: J. Wise, M. Bradac (Stanford, KIPAC)

For the third time, the NewsLine team conducted a survey this summer. Who are our readers? Are they satisfied with the content? The survey says that you read us more often, that you are generally satisfied with the balance of the subjects and that you are enthusiastic about NewsLine's new thematic issues. However you would like to see more science and expect more stories about the connections between the ILC and other particle physics or accelerator projects.

[Read more...](#)

-- Perrine Royole-Degieux

In the News

From *interactions*
23 September 2009

Department of Energy Announces Accelerator Symposium

The conference will feature prominent speakers from industry, universities, and national laboratories and will conclude with a poster session and reception.

[Read more...](#)

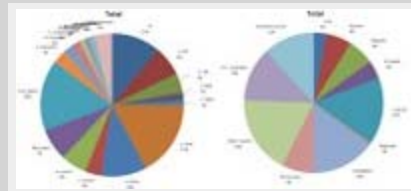
From *UNM Today*
22 September 2009

Lecture on Dark Matter and Dark Energy to be Held During International Conference

The University of New Mexico will host a public lecture, titled "The Mysterious Universe, Exploring our World with Particle Accelerators," on

Director's Corner

Operating and maintaining the ILC in the year 202X



Interim results for strawman baseline 2009 parameters and this operating schedule.

Why is it that a group of us within the Global Design Effort are discussing some possible year-long operating and maintenance schedules for the ILC while it is still under design and some years away from operation? It is because the schedule for frequency and duration of time to repair, maintain and upgrade equipment can affect system design and R&D on component development and we need to think about these things now in order to be ready when the ILC comes online.

[Read more...](#)

-- Ewan Paterson

[Director's Corner Archive](#)

Image of the Week

Superconductivity experts meet in Berlin



Three hundred of world's experts on radiofrequency superconductivity have gathered in Berlin this week to discuss not only new surface treatments for cavities, inspections methods or new uses for superconducting accelerators at the 14th International Conference on RF Superconductivity ([SRF2009](#)). There were also hot debates with industry on how to approach serial cavity

18 September - *Frank Simon*
[CALICE - Alive and Kickin'](#)

[Follow all Quantum Diaries](#)

Calendar

Upcoming meetings, conferences, workshops

[14th International Conference on RF Superconductivity \(SRF2009\)](#)
Berlin, Germany
20-25 September 2009

[2009 Linear Collider Workshop of the Americas \(ALCPG09\)](#)
The University of New Mexico,
Albuquerque, New Mexico, USA
29 September - 3 October 2009

[The mysterious universe - Exploring our world with particle accelerators](#)
Free public lecture by Jim Brau
University of New Mexico,
Albuquerque (Anthropology Lecture Hall 163), New Mexico, USA
1 October 2009, 7pm

[CLIC09 Workshop](#)
CERN
12-16 October 2009

[12th International Conference On Accelerator And Large Experimental Physics Control Systems \(ICALEPCS 2009\)](#)
Kobe International Conference Center, Kobe, Japan
12-16 October 2009

[2009 IEEE Nuclear Science Symposium and Medical Imaging Conference](#)
Orlando, Florida, USA
25-31 October 2009

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

Oct. 1, at 7 p.m. in the Anthropology Lecture Hall, Room 163.
[Read more...](#)

From *Guardian*
22 September 2009
Is the Large Hadron Collider worth its massive price tag?
Scientists at Cern near Geneva are close to turning on their particle accelerator a year after it blew up. In their latest video, physicists hunting the Higgs boson ask what price society is willing to pay to understand the universe.
[Read more...](#)

From *Nature*
22 September 2009
The elephant and the neutrino
Conservationists challenge physics observatory in Indian wildlife reserve.
[Read more...](#)

From *Discover*
21 September 2009
Endgame for the Tevatron
With little fanfare, last week the Tevatron at Fermilab, and the two experiments CDF and D0, emerged from an 11-week shutdown for what will likely be the final run of the collider, which is over 20 years old.
[Read more...](#)

From *CERN Bulletin*
21 September 2009
Starry nights over CLIC
To meet the alignment requirements for CLIC, the future linear accelerator project, CERN's surveyors have started an unprecedented campaign of measurements.
[Read more...](#)

From *CERN Bulletin*
21 September 2009
The Latest from the LHC: Switching on the magnets
The architecture of the LHC, which is partitioned into eight cryogenically and electrically independent sectors, allows the commissioning of the machine on a sector-by-sector basis.
[Read more...](#)

production and a provocative 'hot topic' talk asking whether niobium is 'at the end of the road.'



Announcements

arXiv preprints

[0909.3450](#)

Pomeron Odderon interference in production of two $\pi^+ \pi^-$ pairs at LHC and ILC

[0909.3240](#)

From the LHC to Future Colliders

[0909.3197](#)

MICROMEAS chambers for hadronic calorimetry at a future linear collider

[0909.3113](#)

Phenomenology of the minimal B-L extension of the Standard Model