

Feature Story

The mysterious Universe – brought to Albuquerque

Public lecture draws impressive crowd



Jim Brau's lecture on the mysterious Universe attracted a wide Albuquerque public.

Even though University of Oregon professor and Americas regional contact for the ILC physics and detectors studies Jim Brau had specifically invited a young audience to his public lecture on 1 October in the University of Albuquerque, he thought of teenagers and university students rather than seven-year-olds. But Brau gave particle physics one of its youngest fans — little Abigail Zwartz was so gripped by his talk that she took notes eagerly and even presented them in school the next day.

[Read more...](#)

-- Barbara Warmbein

BlogLine

4 November 2009 - *Ingrid Gregor*
[Capricorn One](#)

30 October 2009 - *Ingrid Gregor*
[The Naked Die!](#)

29 October 2009 - *Frank Simon*
[The IEEE/NSS conference: Exciting new Technology, Fun... and suffering](#)

Around the World

From Fermilab Today: SRF cryogenics system proves its 'cool' factor



Engineers recently cooled this SRF test unit to 2 degrees Kelvin, or minus 271 degrees Celsius

Fermilab has passed another major milestone on the road to becoming an expert in superconducting radio frequency technology.

In early October, in the first test of the cryogenics system at the RF-unit test facility at the New Muon Lab, Fermilab engineers cooled a superconducting capture cavity to 2 degrees Kelvin, or minus 271 degrees Celsius. This is the temperature needed for cavities that could be used in next-generation accelerators such as the proposed Project X. The successful test was the final step in commissioning the cryogenic system at the new test facility.

[Read more...](#)

-- Tona Kunz

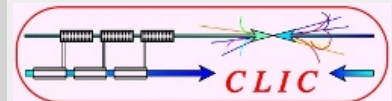
In the News

From *Science Daily*
2 November 2009
Dark Matter And Dark Energy Make Up 95 Percent Of Universe, Detailed Measurements Reveal
A detailed picture of the seeds of structures in the universe has been unveiled by an international team ..
[Read more...](#)

From *CERN Courier*
30 October 2009
Accelerator R&D gets a collaborative boost
The EU Commission and partners from universities, research centres

Director's Corner

Report on the CLIC workshop



The Compact Linear Collider based on a two-beam concept

The September [ALCPG and ILC meeting](#) in Albuquerque, US, featured a plenary talk on the Compact Linear Collider Study CLIC by Jean-Pierre Delahaye, who gave a very nice description of the CLIC status and plans. His talk was well received by the ILC audience and it represented another step in our efforts to increase communication and cooperation between the two groups. In return, I gave a plenary talk on the ILC status and plans at the [CLIC09 Workshop](#) at CERN on 12 October. Like Delahaye in Albuquerque, I was also warmly received at the CLIC workshop and was pleased to have the opportunity to reciprocate to the CLIC audience. This group of dedicated scientists is working towards the same ultimate goal, a future lepton collider for our field to complement the LHC. An extra benefit for me personally was that participating in the workshop gave me effectively an intense crash course on CLIC. Today, I share a few personal observations from the workshop.

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-- Barry Barish

Director's Corner Archive

Announcements

Trick or glitch?

Last Sunday, 1 November, we experienced a domain name glitch, which left our readers and ILC collaborators unable to browse the [linearcollider.org](#) website or perform their work as normal. The issue was identified and fixed immediately, in the effort of restoring service as soon as possible. Nevertheless, it took several hours for the fix to reach the entire network. The reason of the glitch is still under investigation.

[Follow all Quantum Diaries](#)

Calendar

Upcoming meetings, conferences, workshops

[Linear Collider Testbeam Workshop](#)

LAL, Orsay, France
3-5 November 2009

[ILC Accelerator Design & Integration Meeting](#)

DESY, Germany
2-3 December 2009

[GDE Meetings calendar](#)

[View complete ILC calendar](#)

and industries throughout Europe have launched EuCARD, a new four-year project centred on accelerator R&D for high-energy physics, nuclear physics and light sources, co-ordinated by CERN.
[Read more...](#)

The [ILC web team](#) apologises for any inconvenience caused.

arXiv preprints

[0911.0006](#)

SiD Letter of Intent