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22 April 2010

#### **Around the World**

## From Fermilab Today: AD & TD collaborate on first cryomodule for new facility



A technician performs delicate, particulate-free work in a portable clean room abutting the New Muon Lab's first cryomodule.

It is perhaps fitting that the New Muon Lab, a long, low concrete affair facing open fields, sits facing the northern edge of Fermilab's property. The hangar-sized building is a busy place these days, home to the laboratory's Superconducting Radio Frequency Test Facility, and bustling with the work that keeps Fermilab pushing the boundary of high-energy particle physics research.

Crews from the laboratory's Accelerator Division and Technical Division recently wrapped up a month-long collaboration at NML on a beamline vacuum system for the facility's first cryomodule, the technology for future particle accelerators such as Project X and the ILC.

Read more...

-- Andrea Mustain

#### Calendar

# Upcoming meetings, conferences, workshops

TESLA Technology Collaboration (TTC) <u>Meeting</u>

Fermilab, IL, USA 19-22 April 2010

XIV International Conference On Calorimetry In High Energy Physics (CALOR2010)

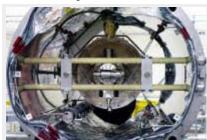
IHEP, Beijing, China 10-14 May 2010

The 1st International Particle Accelerator Conference (IPAC'10)

Kyoto, Japan 23-28 May 2010

#### **Feature Story**

## Superconducting cavities could help reducing nuclear waste radio-toxicity



Accelerator-driven system cavity prototype embedded in its cryomodule. Image: Perrine Royole-Degieux.

What do the ILC and environmental protection have in common? The answer is: superconducting cavities. The European MYRRHA is an experimental facility aimed to demonstrate the technical feasibility of nuclear waste transmutation in an accelerator-driven system. The main part of the accelerator will consist in a series of superconducting cavities. At INFN Milano, Italy, a group has transferred all its experience from the TESLA Technology Collaboration and ILC for the development of elliptical proton cavities for this application. Last month, a prototype cryomodule containing one low-beta elliptical cavity was installed in dedicated test stand at the IPNO/Supratech technological platform in Orsay, France.

Read more...

-- Perrine Royole-Degieux

# In the News

From CERN Bulletin

19 April

# LHC status report

Following the great success of the first 3.5 TeV collisions in all four LHC experiments on 30 March, the focus of the LHC commissioning teams has turned to consolidating the beam injection and acceleration procedures. Read more...

From nature 15 April

## Roman ingots to shield particle detector

Lead from ancient shipwreck will line Italian neutrino experiment.

Read more...

From San Francisco Business Times

#### **Director's Corner**

### ILC-CLIC general issues group



Philippe Lebrun, CLIC general issues group co-chair, in Beijing. Image: IHEP/Jie Liu.

At the Beijing meeting, Philippe Lebrun gave a report to the Global Design Effort Executive Committee of the initial work of the new "ILC-CLIC general issues group." This working group consists of Philippe Lebrun (cochair), Ken Peach and Daniel Schulte from the Compact Linear Collider (CLIC) Study, and Mike Harrison (cochair), Kaoru Yokoya and Eckhard Elsen from the GDE. The group has reviewed its mandate, surveyed the progress of the joint ILC-CLIC working groups and planned its future activities.

Read more...

-- Barry Barish

# **Director's Corner Archive**

## **Announcements**

## **ILC-Note** 2010-053

Ten-TeV e+e- collisions with beamstrahlung compensation for linear collider

#### 2010-052

Multi-TeV upgrade concept for international linear collider based on proton driven plasma acceleration

# arXiv preprints

01004.2783

Collider signatures of the Gauge-Higgs Dark Matter

Particle Showers in a Highly Granular Hadron Calorimeter

#### 1004.2188

Electroweak non-resonant NLO corrections to  $e^+$   $e^- \rightarrow W^+$   $W^-$  b bbar <u>Polarized Positron for Linear Colliders</u> <u>Workshop (Posipol 2010)</u>

KEK, Japan 31 May - 2 June 2010

# **Upcoming school**

CERN Accelerator School (CAS 2010):
Course on RF for Accelerators
Ebeltoft, Denmark
8-17 June 2010

GDE Meetings calendar View complete ILC calendar 14 April

Lawrence Berkeley Lab gave Bay Area \$690M boost last year

Lawrence Berkeley National Laboratory boosted the Bay Area economy by 5,600 jobs and \$690 million last year, according to a study it published this week. Read more... in the *t tbar* resonance region

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