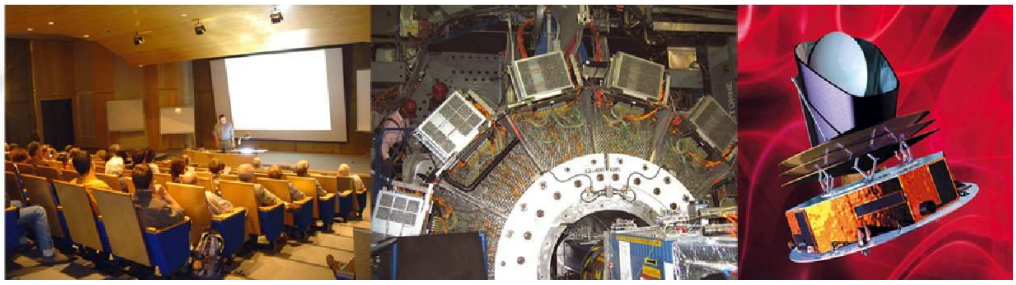
LABORATOIRE DE L'ACCÉLÉRATEUR LINÉAIRE



Séminaire du Laboratoire de l'Accélérateur Linéaire

Lucie Linssen

CERN

Mardi 8 Avril 2014 à 11 :00

CLIC : physics and detectors at a future TeV-scale e^+e^- linear collider

CLIC is a high-energy e^+e^- linear collider under development. It is based on a novel two beam acceleration scheme and has the capability to operate at centre-of-mass energies ranging from a few hundred GeV to 3 TeV. The e^+e^- collisions at CLIC will allow for high-precision measurements of Higgs and top-quark properties. At the same time it will allow for direct and indirect searches of new physics phenomena. The CLIC physics potential is largely complementarity to that of the LHC. The physics aims, together with the experimental conditions at CLIC, set challenging requirements for the detectors. The CLIC experiment concepts under study and their detector technologies will be presented. The precision physics capabilies will be illustrated on the basis of detailed physics benchmark studies for various centre-of-mass energies.

Salle 101 du LAL - Bât. 200, Orsay

Thé et café seront servis 1/4 h avant le séminaire

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