

Lundi 13/03/2017, 11h00-12h00

CEA-Saclay Bat 141, salle Andr © Berthelot

The CLIC project and its involvement in CMS HGC

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CERN

The CLIC detector and physics study (CLICdp) is an international collaboration that investigates the physics potential of the Compact Linear Collider (CLIC). CLIC is a high-energy electron-positron collider under development, aiming for centre-of-mass energies from a few 100 GeV to 3 TeV. In addition to physics simulations using full Monte Carlo studies including backgrounds, CLICdp performs cutting-edge hardware R&D. Similar to the preferred calorimeter options for CLIC, the CMS HGC, a high-granularity calorimeter upgrade for the CMS endcap regions at HL-LHC, is based on silicon pad and scintillator+SiPM readout. Fine-grained calorimetry has been explored for future $e + e-$ experiments at ILC and CLIC since several years and CLICdp has joined CMS for the HGC development. An overview of the CLIC detector, recent results from physics prospect studies, and the CERN sensor testing efforts for the CMS HGC project will be presented.

Le caf © sera servi 10 minutes avant.

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