



Irfu

Institut de recherche
sur les lois fondamentales
de l'Univers

**Séminaire
SPP**

Lundi 27/03/2017, 11h00-12h00

CEA-Saclay Bat 141, salle Andr © Berthelot

Ultra-Fast Silicon Detector for precise timing at CMS

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INFN

In this seminar I will first review the physics case for a hermetic timing detector for charge particles to be installed in CMS in the years 2024-25 in preparation of the High Luminosity upgrade of the LHC accelerator (HL-LHC). Then I will present the possible technologies currently under studies for the timing detector, specifically I will concentrate on explaining the basics principles of Ultra-fast Silicon Detectors and their performances.

I will conclude with a brief outline of the future research and development steps for the construction of the timing detector.

Le caf © sera servi 10 minutes avant.

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