



Séminaire du Laboratoire de l'Accélérateur Linéaire

Luis Alejandro Perez Perez

IPHC Strasbourg

Vendredi 22 Janvier 2016 à 11 :00

From Vertex detectors to Inner Trackers with CMOS pixel sensors

The use of CMOS Pixel Sensors (CPS) for high resolution and low material vertex detectors has been validated with the 2014 and 2015 physics runs of the STAR-PXL detector at RHIC/BNL. This opens the door to the use of CPS for inner tracking devices, with 10-100 times larger sensitive area, which require therefore a sensor design privileging power saving, response uniformity and robustness. I will present the most prominent outcomes of R&D activities for developing a CPS in a 180 nm CMOS process, in the goal of producing a chip well adapted for the outermost layers of the upgraded ALICE Inner Tracking System.

Salle 101 du LAL - Bât. 200, Orsay

Thé et café seront servis 5 mn avant le séminaire



Responsable : N. Delerue (seminaires@lal.in2p3.fr)- <http://www.lal.in2p3.fr>