

Department of Physics

Particle Physics

The Denys Wilkinson Building, Keble Road, Oxford OX1 3RH



Experimental Particle Physics Seminar

at 2.15 pm

<https://cern.zoom.us/j/69856157536?pwd=MjNPZFh5SERsYi9WYmtENnJCdGtaQT09>

Tuesday 25 May 2021

Professor Cinzia Da Via
University of Manchester

3D Sensors Status and Perspectives

Abstract

3D sensors with electrodes penetrating the substrate's bulk have been a game changing technology in radiation hard particle tracking. After 25 years from the original proposal, their industrialization and inclusion in the ATLAS IBL, they are being explored for features beyond radiation hardness like fast timing and spatial precision. The seminar will present the historical evolution of 3D technology, its technical characteristics and how the technology could respond to future challenges in particle tracking.