



Contribution ID: 76

Type: **Parallel Contribution**

Upgrade of the ALICE Inner Tracking System

Friday, 14 October 2011 10:35 (25 minutes)

In order to fully exploit the physics potential of future high energy collider, a Vertex Detector providing high resolution track reconstruction is required. The Vertex Detector should be based on a technology capable of withstanding high track density and in case a large radiation exposure. In particular, near the interaction point the current silicon strip detector are not suitable for the expected environment and the silicon pixel detector both hybrid and monolithic are the most attractive option. These devices allow to build very light detectors for accurate tracking and vertexing also in a low momenta environment. In this contribution some ongoing developments on hybrid and monolithic pixel detectors for vertex detectors of future high-energy physics experiment will be reviewed.

Primary author: Dr MANZARI, Vito (INFN Bari)

Presenter: Dr MANZARI, Vito (INFN Bari)

Session Classification: Future Facilities and Detectors II

Track Classification: Future facilities and Detectors