

8th International "Hiroshima" Symposium on the Development and Application of Semiconductor Tracking Detectors, Taipei, Taiwan

Contribution ID: 61

Type: ORAL

CMS tracker performance

Wednesday 7 December 2011 09:50 (20 minutes)

The CMS tracker is the largest of its kind built to date. It has an active area in excess of 200m² of silicon, which provides high precision measurement points for track reconstruction. In order to use the data from the silicon strip and pixel systems to reconstruct charged particle trajectories as well as primary and secondary vertices, multi-step calibration procedures including module alignment are required. Results from operating the CMS tracker during the first two years of 7 TeV LHC collisions will be presented. These include aspects such as the data acquisition, detector slow control, and data quality monitoring. Projections for the evolution of the CMS tracker performance with increasing irradiation will be given.

Author: PALMONARI, Francesco (Sezione di Pisa (IT))

Presenter: PALMONARI, Francesco (Sezione di Pisa (IT))

Session Classification: Applications in High Energy Physics

Track Classification: Applications in High Energy Physics