ID de Contribution: **1038** Type: **Parallel session talk**

Performance of the LHCb Detector during 2010-2011 data taking

vendredi 22 juillet 2011 10:00 (15 minutes)

The status and performance of the LHCb detector during the physics LHC physics run is described. The detector has a number of notable features including: 13 micron resolution in the transverse plane on 25 track primary vertices, pion and kaon separation from 1 to 100 GeV, and 1 MHz full readout of all sub-systems. The detector is being operating above its design luminosity. The detector is comprised of a silicon vertex detector (vertex locator - VELO), silicon and straw-tube tracking systems (inner and outer trackers), ring imaging cherekov particle identification systems (RICH), electromagnetic and hadronic calorimetry, and muons systems. Hardware and software based trigger levels are utilised to efficiently select leptonically and hadronically decay beauty and charm hadrons. The alignment, tracking and particle identification performance will be discussed.

Auteur principal: Mlle LANFRANCHI, Gaia (INFN)

Orateur: Dr VAN BEUZEKOM, Martin (Nikhef)

Classification de Session: Detector R & D and Data Handling

Classification de thématique: Detector R & D and data handling