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PERFORMANCE OF THE LHCb DETECTOR DURING THE LHC PROTON RUNS 2010- 2012

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The status and performance of the LHCb detector during the physics LHC physics run is described. The LHCb detector has a number of notable features including: 12 micron resolution in the transverse plane on 30-35 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 at twice its design Luminosity and the sub-system performance will be discussed. Hardware and software based trigger levels are utilised to efficiently select leptonic and hadronic decays of beauty and charm hadrons. During 2012 a so called 'deferred' triggering scheme has been used and will be presented. The alignment, tracking and particle identification performance will be discussed, together with effects of detector ageing.

quote your primary experiment

LHCb

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