

LHCb silicon detectors: Run 2 operational experience

Monday 26 September 2016 10:15 (22 minutes)

LHCb is a dedicated experiment to study New Physics in the decays of heavy hadrons at the Large Hadron Collider (LHC) at CERN. The detector includes a high precision tracking system consisting of a silicon-strip vertex detector (VELO) surrounding the pp interaction region, a large area silicon-strip detector located upstream of a dipole magnet (TT), three stations of silicon-strip detectors (IT), and straw drift tubes placed downstream (OT). The operational experience of the silicon detectors VELO, TT and IT from LHC Run 2, the maintenance work during year end shut down, and the upgrade of operation and monitoring software will be presented. Possible operational challenges for the silicon detectors in LHC Run 2 will also be discussed, with particular emphasis on studies of the effects of radiation damage.

Author: CHEN, Shanzhen (University of Manchester (GB))

Presenter: CHEN, Shanzhen (University of Manchester (GB))

Session Classification: B01-Operational experience on current detectors

Track Classification: Current detectors: operational experience