

Commissioning and Performance of the LHCb Vertex Detector

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The LHCb Vertex Detector, VELO, is a crucial component of the experiment. We describe the preparations for taking data. New results from beam related LHC events are presented together with a summary of recent radiation studies on the VELO modules including high rate tests at CERN and testbeam studies at Fermilab. Developments of the online and offline infrastructure are described. Projections of the performance of the detector for physics data during 2009 and 2010 are given and its impact on physics performance discussed.

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