

The LHCb Online Data Quality Monitoring Framework

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LHCb is one of the four major experiments under completion at the Large Hadron Collider (LHC). The expected data rate at the LHC is so high, that the majority of events will be rejected by the trigger system. Thus the monitoring of the trigger performance and the quality of the data in general is of crucial importance. To this end a Data Quality Monitoring project was setup. One part of this project is the presentation tool for Histograms: the “Histogram Presenter”, which is developed as part of a “Histogramming Framework”. The Histogram Presenter is one of the main instruments to understand the quality of the experimental data. The Presenter is fully integrated within the Experiment’s Control System. It allows the visualisation, in a coherent and understandable manner, of several thousand histograms and counters as well as displaying warning or alarm messages generated by automatic analysis tools.

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