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LHCb Full Experiment System Test (FEST09)

Monday, March 23, 2009 8:00 AM (20 minutes)

LHCb had been planning to commission its High Level Trigger software and Data Quality monitoring procedures using real collisions data from the LHC pilot run. Following the LHC incident on 19th September 2008, it was decided to commission the system using simulated data.

This "Full Experiment System Test" consists of:
- Injection of simulated minimum bias events into the full HLT farm, after selection by a simulated Level 0 trigger.
- Processing in the HLT farm to achieve the output rate expected for nominal LHC luminosity running, sustained over the typical duration of an LHC fill.
- Real time Data Quality validation of the HLT output, validation of calibration and alignment parameters for use in the reconstruction.
- Transmission of the event data, calibration data and book-keeping information to Tier1 sites and full reconstruction of the event data.
- Data Quality validation of the reconstruction output.

We will report on the preparations and results of FEST09, and on the status of commissioning for nominal LHC luminosity running.

Presentation type (oral | poster)

oral

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