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Test of the ATLAS Inner Detector reconstruction software using combined test beam data

Thursday, September 30, 2004 3:00 PM (20 minutes)

The athena software framework for event reconstruction in ATLAS will be employed to analyse the data from the 2004 combined test beam. In this combined test beam, a slice of the ATLAS detector is operated and read out under conditions similar to future LHC running, thus providing a test-bed for the complete reconstruction chain. First results for the ATLAS InnerDetector will be presented.

In particular, the reading of the bytestream data inside athena, the monitoring tasks, the alignment techniques and all the different online and offline reconstruction algorithms will be fully tested with real data. Their performance will be studied and results compared to simulated data, which has been generated specifically for the test beam layout.

Primary authors: COSTA, M J. (CERN); LIEBIG, W. (CERN)

Presenter: LIEBIG, W. (CERN)

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