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ATLAS Data Quality Monitoring: Experience with First Collision Data

It is essential to get quick feedback at all stages of the collection and reconstruction of particle physics data, and to correctly record quality decisions to ensure that only good data are used to obtain physics results. The ATLAS data quality system provides prompt investigation of collected data, initial calibrations, and later reconstruction, and propagates the corresponding quality decisions to analysis users. This talk describes the significant experience we have gained In 2009 and 2010 with collision data operations and analysis.

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