

A New Tool for Measuring Detector Performance in ATLAS

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The determination of the ATLAS detector performance in data is essential for all physics analyses and even more important to understand the detector during the first data taking period. Hence a common framework for the performance determination provides a useful and important tool for various applications.

We report on the implementation of a performance tool with common software solutions for the corresponding data analyses. The tool provides a framework for gathering the input data, a common format of the output data, as well as methods to store the results in a collaboration wide accessible database. The aim is to implement an ATLAS standard that will be used for performance monitoring, physics analyses, and as realistic input to Monte Carlo event simulation. Deployment in every level of LHC data production centers, so-called Tier-1/2/3 centers, is supported. The overall concept of the performance tool, its realization and first experiences will be presented.

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