

# Monitoring of the ATLAS LAr Calorimeter

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The ATLAS detector at the Large Hadron Collider is expected to collect an unprecedented wealth of new data at a completely new energy scale. In particular its Liquid Argon electromagnetic and hadronic calorimeters will play an essential role in measuring final states with electrons and photons and in contributing to the measurement of jets and missing transverse energy. Efficient monitoring data will be crucial from the earliest data taking onward and are implemented at multiple levels of the readout and triggering systems. By providing essential information about the performance of each sub-detector and their impact on physics quantities, the monitoring will be crucial in guaranteeing data to be ready for physics analysis.

The tools and criteria for monitoring the LAr data in the cosmics data-taking will be discussed. The software developed for the monitoring of collisions data will be described and results of monitoring performance for data obtained from a full simulation of the data processing that includes data streams foreseen in the ATLAS operation will be presented. The status of automated data quality checks will be shown.

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