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ATLAS Liquid Argon Calorimeter Reconstruction Software and Commissioning

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The ATLAS Liquid Argon Calorimter consists of precision electromagnetic accordion calorimeters in the barrel and endcaps, hadronic calorimeters in the endcaps, and calorimeters in the forward region.
The initial high energy collision data at the LHC experiments is expected in the spring of 2008. While tools for the reconstruction of the calorimeter data are quite developed through years of Monte Carlo simulation and test beam studies, the processing, storing and archiving of all peripheral meta-data such as calibration constants, detailed conditions of the sub-detector systems are actively being worked on. The LAr calorimeter consists of over 180,000 electronic channels. The reconstruction of all the signal channels with proper calibration and other conditions is challenging.
The current status of these efforts for the ATLAS Liquid Argon Calorimter is presented. The interfaces to access, and techniques to store, the conditions data are introduced. The current effort in commissioning the detector gives invaluable experience in larger scale application of these methods and is discussed in detail.

Submitted on behalf of Collaboration (ex, BaBar, ATLAS)

ATLAS

Primary author: Dr MA, Hong (Brookhaven National Laboratory (BNL))

Presenter: SEUSTER, Rolf (University of Victoria)

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