

Role of Offline Software in ATLAS Detector Commissioning

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Commissioning of the ATLAS detector at the CERN Large Hadron Collider (LHC) includes, as partially overlapping phases, subsystem standalone work, integration of systems into the full detector, cosmics data taking, single beam running and finally first collisions. These tasks require services like DAQ with data recording to Tier0 and distributed data management, databases, histogramming and event displays, data reconstruction and analysis both online and offline. An important aspect is the early interplay of the offline, high-level trigger, and online software versions involved. This paper describes how the various ATLAS components are utilized from now until LHC operation.

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