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ATLAS Physics Analysis Tools

The ATLAS experiment at the Large Hadron Collider is expected to start colliding proton beams in September 2009. The enormous amount of data produced (~1PB per year) poses a great challenge to the ATLAS computing. ATLAS will search for the Higgs boson and Physics beyond the standard model. In order to meet this challenge, a suite of common Physics Analysis Tools (PAT) has been developed as part of the Physics Analysis software project. These tools run within the ATLAS software framework, ATHENA, covering a wide range of applications. There are tools responsible for event selection based on analysed data and detector quality information, tools responsible for specific physics analysis operations including data quality monitoring and physics validation, and complete analysis toolkits (frameworks) with the goal to aid the physicist to perform his analysis hiding the details of the ATHENA framework.

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