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Simulation readiness for the first data at LHC

Monday, September 3, 2007 2:00 PM (20 minutes)

The ATLAS detector is entering the final phases of construction and commissioning in order to be ready to take data during the first LHC commissioning run, foreseen by the end of 2007. A good understanding of the experiment performance from the beginning is essential to efficiently debug the detector and assess its physics potential in view of the physics runs which are going to take place from 2008 on. The ATLAS Detector Simulation programs have been developed since the ATLAS inception and have been developed for easing the detector optimization and construction: further developments to the simulation suite have recently been introduced to cope with essential factors like misalignment, inefficiencies, imperfections but still maintaining a high level of efficiency and operability to serve the ongoing production exercises. Emphasis in this talk is put on recent developments and new features, on validation and production strategies as well as on performance figures, robustness and maintainability

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

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