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Comparisons of Monte Carlo Simulation to data from the ATLAS combined test-beam

Summary

In 2004 the ATLAS collaboration carried out a beam test in which a full slice of the ATLAS barrel detector was exposed to beams of electrons and pions in the energy range from 1 to 350 GeV. The calorimeter was composed of a liquid argon lead calorimeter in the electromagnetic part and a scintillator tile calorimeter in the hadronic part. The mean response, the resolution and the lateral and longitudinal shower topologies to hadrons in the energy range from 1 to 180 GeV have been measured and are compared to Monte Carlo simulations. The ability of the various physics lists in the most recent version of Geant4 simulation framework is discussed.

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