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Performance of the ATLAS Tile Calorimeter

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The Tile Calorimeter of the ATLAS experiment at the LHC is the central hadronic calorimeter designed for energy reconstruction of hadrons, jets, tau-particles and missing transverse energy. The performance of the calorimeter have been studied employing cosmic ray muons and the large sample of proton-proton collisions acquired during the run-1 of LHC (2010-2012).

Results on the calorimeter performance on absolute energy scale, timing, noise and associated stabilities are presented.

The results show that the Tile Calorimeter performance are within the design requirements of the detector.

Collaboration

ATLAS Tile Calorimeter System

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