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Performance of Jets and Missing Transverse Energy Measurements using Particle Flow in ATLAS

Jets and missing transverse energy are key elements in both precision measurements and searches for new particles at LHC. Improved jet momentum resolution and pile-up stability of jet energy and missing transverse energy measurements are highly desirable in the high pile-up conditions expected in the next years of LHC. A particle flow algorithm, which combines measurements from both the tracker and the calorimeter, has been developed. The performance of particle-flow reconstruction of jets and missing transverse energy are presented and compared with purely calorimeter-based algorithms.

Experimental Collaboration

ATLAS

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