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Type: **Poster**

Particle-level pileup subtraction for jets and jet shapes

Tuesday 2 September 2014 08:00 (1 hour)

The ability to correct jets and jet shapes for the contributions of multiple uncorrelated proton-proton interactions (pileup) largely determines the ability to identify highly boosted hadronic decays of W, Z, and Higgs bosons, or top quarks. We present a new method that operates at the level of the jet constituents and provides both performance improvement and simplification compared to existing methods. Comparisons of the new method with existing methods along with predictions of the impact of pileup on jet observables during the LHC Run II will be presented. We will also discuss methods that may remove pileup contribution from the whole event.

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Session Classification: Poster session

Track Classification: Data Analysis - Algorithms and Tools