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CONTRIBUTION MERGED

This abstract is merged, the merged contribution is at
https://indico.cern.ch/event/568360/contributions/2448699/

Previous abstract
Measurement of the kt splitting scales in Z events with the ATLAS detector

While properties of the jets are typically directly using the jet momenta, we present here a complementary approach, studying the jet production rates at different resolution scales. In particular, we present a measurement of the splitting scales occuring in the kt jet-clustering algorithm for final states containing a Z-boson candidate at a centre-of-mass energy of 8 TeV. The measurement is based on charged-particle track information, which is known with excellent precision in the pT-region relevant for the transition between the perturbative and the non-perturbative regimes. The data are corrected for detector effects and are compared to state-of-the-art Monte Carlo predictions.

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