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Emergence of track jets in inelastic pp events with the ATLAS detector

The precise measurements of reconstructed tracks in inelastic pp interactions as measured with the ATLAS detector at the LHC allow the study of so called 'track jets'. This analysis makes use of the ATLAS inner tracking detector with a coverage in pseudo-rapidity of $|\text{abs}(\eta)| < 2.5$. This approach is completely independent from calorimeter measurements, and thus complements jet measurements using calorimetry. It allows study of the production of jets down to small transverse momenta, probing the emergence of jets in inelastic pp interactions. The status of the reconstruction of jets from tracks and first information on kinematic distributions will be shown for collisions recorded at 7 TeV as well as at 900 GeV center-of-mass energy.

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