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Performance of jet reconstruction and calibration in first ATLAS data at a centre-of-mass energy of 7 TeV

We report on first results of jet reconstruction and jet calibration in proton-proton collisions produced at a centre-of-mass energy of 7 TeV at the LHC. Jets are reconstructed with the anti-kt jet algorithm and need to satisfy a few selection criteria to reject backgrounds. We compare the data in detail to Monte Carlo simulations and estimate uncertainties on the jet energy scale and jet energy resolution. In addition, in-situ techniques are used to assess the energy scale and resolution.

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