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Jet Energy Calibration in the CMS experiment

Jet reconstruction and calibration in the CMS experiment are complicated by the nonlinear response of the calorimeters and the high pileup conditions. These difficulties are mitigated at CMS by utilising the particle flow approach. The measurements of the jet energy calibration in CMS are summarized and presented. They are performed with data samples collected in proton-proton collisions at a centre-of-mass energy of 8 TeV corresponding to an integrated luminosity of 12.1/fb. The final jet energy calibration is derived with dijet, γ+jet and Z+jet events. Here, we focus on the estimation of the inter-η-calibration using dijet events and discuss the uncertainties on the jet energy corrections.

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