

Calibration of the CMS Hadron Calorimeter in Run2

Monday 2 October 2017 17:20 (20 minutes)

The calibration of energy scale of the CMS Hadron Calorimeter is performed using isolated charged hadrons. This approach can be applied in the areas covered by the tracking system, which allows high-precision measurement of the momenta of charged particles. The performance of the calibration procedure is discussed including the impact of pileup and the developed technique of correction for pileup. The studies of selection efficiency and isolation constraints on simulated samples are presented as well as the results of calibration using 2016 collision data. The achieved uncertainty of the response to hadrons is 3.4% in the barrel and 2.6% in the endcap region (at $|\eta| < 2$) and is dominated by the systematic uncertainty due to pileup contribution.

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Session Classification: Calibration & operation