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Performance of Jets and Missing Transverse Energy in CMS

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A summary of the measurements of the jet energy calibration in CMS is presented, performed with data samples collected in proton-proton collisions at a centre-of-mass energy of 8 TeV corresponding to an integrated luminosity of 1.6/fb. The final jet energy calibration is based on dijet, γ+jet and Z+jet events. The results are presented for the "Particle Flow" approach, which attempts to reconstruct individually table particles in the event, prior to the jet clustering, based on information from all relevant subdetectors. We discuss the effect of pile-up interactions and the state of the art mitigation techniques used in CMS and we describe the main sources of uncertainty on the jet energy calibration. Finally, the results of comprehensive studies of missing transverse energy are presented.

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