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Jet Energy Scale and Resolution measurements in CMS

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Measurements of Jet energy scale (JES) and resolution (JER) are presented, based on the legacy reconstruction of 13 TeV proton-proton collision data collected by CMS in 2016-2018.

Precision measurement of JES is of the utmost importance for the vast majority of physics measurements and searches at CMS. The high number of additional proton-proton interactions (event pileup), a harsh radiation environment, and time-dependent variations in detector components, all make precision JES measurement a challenging task. We present in-situ derivations of JES and JER based on collider data, as well as on simulated samples using various advanced techniques.

In-person participation

Yes

Primary author: AGARWA, Garvita (University at Buffalo)

Presenter: AGARWA, Garvita (University at Buffalo)

Session Classification: Operation, Performance and Upgrade (Incl. HL-LHC) of Present Detectors

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