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Jet performance and pileup mitigation in Run 3 in CMS

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With the start of Run 3 data taking the standard pileup mitigation technique for the CMS Collaboration is the Pileup Per Particle Identification (PUPPI) algorithm. Recently, the track-vertex association in PUPPI was optimised in order to recover an inefficiency for hadronically decaying \boxtimes leptons at low transverse momentum (\boxtimes). The jet energy scale and resolution are sensitive to many different subdetector systems, making continuous monitoring crucial. It is shown that Run 3 promptly reconstructed data have an excellent jet energy resolution performance with respect to Run 2.

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