

# Performance of missing transverse momentum reconstruction at the CMS detector in 13 TeV data

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The precise measurement of the missing transverse momentum (MET) observable is critical for standard model measurements involving W, Z, and the Higgs bosons, and top quarks. In addition, MET is one of the most important kinematic observable used in searches for physics beyond the standard model targeting new weakly interacting neutral particles. A detailed understanding of various effects due to the high collision rate at the CMS detector during the 13 TeV data-taking period of the LHC both in data and simulation is important to achieve the most optimal MET performance. In this talk, we will present the studies of MET reconstruction algorithms using the CMS detector at the LHC.

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