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Projected improvement of the accuracy of top-quark mass measurements at the upgraded LHC

Estimates of the ultimate precision of measurements of the top-quark mass achievable with 300–3000 fb-1 of proton-proton collisions at a center-of-mass energy of 14 TeV are presented. Possible improvements in the understanding of systematic uncertain- ties are discussed for various top-quark mass measurement techniques. Building on new insights from recent studies at the LHC, the extrapolations to high luminosity promise an ultimate precision that is significantly better than previous estimates.

Primary author: CMS, Collaboration (CERN) Presenter: CMS, Collaboration (CERN)