

Extraction of the Top Quark Mass from Top Pair Cross Sections Measured by CMS at $\sqrt{s} = 7$ TeV

The top quark mass in the pole and $\overline{\text{MS}}$ definition is determined based on the measured cross section in the dilepton channel compared to three different approximate NNLO QCD calculations. The analysed dataset corresponds to an integrated luminosity of 1.14 fb^{-1} collected by the CMS experiment in 2011 in pp collisions at \sqrt{s} of 7 TeV.

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