

Measurement of the top quark pair production cross section in proton-proton
collisions at $\sqrt{s} = 13$ TeV

—Supplemental Material—

The CMS Collaboration

CERN

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- [2] CMS Collaboration, “Measurement of the $t\bar{t}$ production cross section in the dilepton channel in pp collisions at $\sqrt{s} = 8$ TeV,” *J. High Energy Phys.* **02**, 024 (2014), [Erratum: doi:10.1007/JHEP02(2014)102].
- [3] CMS Collaboration, “Measurement of the $t\bar{t}$ production cross section in the dilepton channel in pp collisions at $\sqrt{s} = 7$ TeV,” *J. High Energy Phys.* **11**, 067 (2012).
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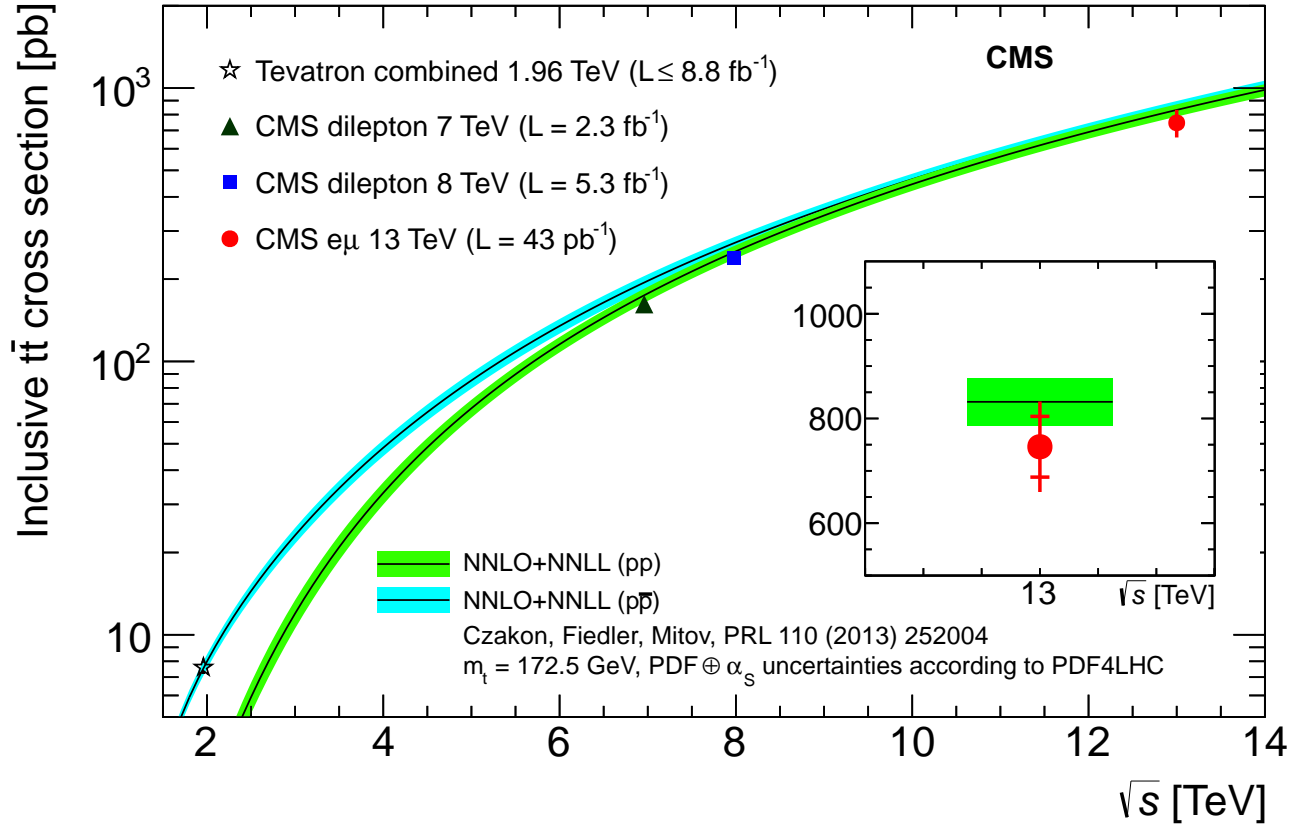


FIG. 1. The $t\bar{t}$ production cross section in $p\bar{p}$ and pp collisions as a function of \sqrt{s} . The Tevatron combination is given at $\sqrt{s} = 1.96 \text{ TeV}$ [1], as are the CMS results at 7 and 8 TeV in the dilepton channels [2, 3]. The CMS result at 13 TeV is also shown in the figure where the inner error bar corresponds to the statistical uncertainty and the outer one to the total uncertainty. The measurements are compared to NNLO+NNLL theoretical predictions [4].