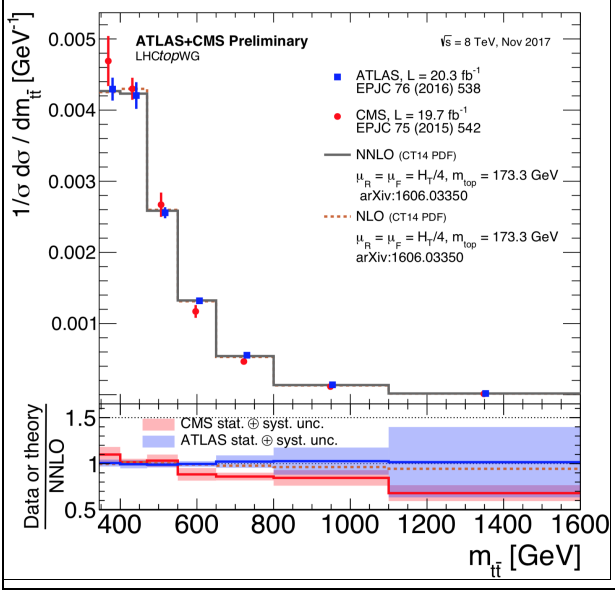
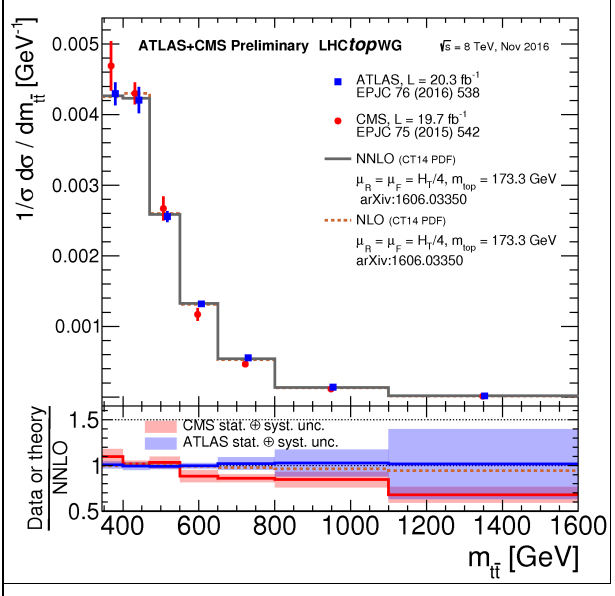


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History of LHCTopWG Summary Plots:

Top Pair Differential Distribution of Top Pair Mass at 8 TeV Summary NLO vs NNLO

Figure	Description
<p data-bbox="236 365 767 394">Pair production differential cross sections</p>  <p data-bbox="193 405 810 992"> ATLAS+CMS Preliminary LHCtopWG $\sqrt{s} = 8 \text{ TeV, Nov 2017}$ $\mu_R = \mu_F = H_T/4, m_{\text{top}} = 173.3 \text{ GeV}$ $\mu_R = \mu_F = H_T/4, m_{\text{top}} = 173.3 \text{ GeV}$ </p>	<p data-bbox="817 405 1497 992"> Full phase-space normalised differential $t\bar{t}$ cross-section as a function of the invariant mass of the top-quark pair. The CMS and ATLAS results are compared to the NLO and NNLO calculations from arXiv:1606.03350. The values for the top-quark mass (m_{top}), the renormalisation (μ_R) and factorisation (μ_F) scales, and the choice of the PDF set used in each calculation are provided. Both the CMS and ATLAS measurements are performed assuming a top-quark mass value of 172.5 GeV. The shaded bands show the total uncertainty on the data measurements in each bin. The lower panel shows the ratio of the data measurements and NLO calculation to the NNLO calculation. </p> <p data-bbox="817 860 1497 920"> PNG PDF </p> <p data-bbox="817 960 1497 992">November 2017</p>
 <p data-bbox="193 1032 810 1626"> ATLAS+CMS Preliminary LHCtopWG $\sqrt{s} = 8 \text{ TeV, Nov 2016}$ $\mu_R = \mu_F = H_T/4, m_{\text{top}} = 173.3 \text{ GeV}$ $\mu_R = \mu_F = H_T/4, m_{\text{top}} = 173.3 \text{ GeV}$ </p>	<p data-bbox="817 1032 1497 1626"> Full phase-space normalised differential $t\bar{t}$ cross-section as a function of the invariant mass of the top-quark pair. The CMS and ATLAS results are compared to the NLO and NNLO calculations from arXiv:1606.03350. The values for the top-quark mass (m_{top}), the renormalisation (μ_R) and factorisation (μ_F) scales, and the choice of the PDF set used in each calculation are provided. Both the CMS and ATLAS measurements are performed assuming a top-quark mass value of 172.5 GeV. The shaded bands show the total uncertainty on the data measurements in each bin. The lower panel shows the ratio of the data measurements and NLO calculation to the NNLO calculation. </p> <p data-bbox="817 1491 1497 1552"> PNG PDF </p> <p data-bbox="817 1592 1497 1626">November 2016</p>

-- MartijnMulders - 2017-01-23

This topic: LHCPhysics > TtbarDifferential8TeVMttbarNLOvsNNLOHistory

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