

uncertainty source	$\Delta\sigma_{t\text{-ch.},t+\bar{t}}/\sigma_{t\text{-ch.},t+\bar{t}}^{\text{obs}}$	$\Delta\sigma_{t\text{-ch.},t}/\sigma_{t\text{-ch.},t}^{\text{obs}}$	$\Delta\sigma_{t\text{-ch.},\bar{t}}/\sigma_{t\text{-ch.},\bar{t}}^{\text{obs}}$
uncertainty of the fit (stat. + prof. unc.)	$\pm 6.8\%$	$\pm 7.4\%$	$\pm 11.9\%$
statistical uncertainty	$\pm 4.0\%$	$\pm 4.7\%$	$\pm 7.6\%$
profiled uncertainties	$\pm 5.5\%$	$\pm 5.7\%$	$\pm 9.2\%$
MC statistics	$\pm 2.8\%$	$\pm 3.4\%$	$\pm 4.0\%$
pileup	-0.2/+0.1%	-0.5/+0.4%	-0.1/+0.7%
experimental uncertainty	-6.2/+6.2%	-6.7/+6.7%	-10.0/+10.0%
Signal modeling	$\pm 7.9\%$	$\pm 10.1\%$	$\pm 8.2\%$
t $\bar{t}$ modeling	$\pm 4.3\%$	$\pm 3.9\%$	$\pm 4.6\%$
W+jets modeling	-2.1/+1.7%	-1.6/+1.1%	-2.8/+2.3%
Q <sup>2</sup> scale <i>t</i> -channel	-5.7/+7.0%	-7.1/+5.1%	-6.1/+6.9%
Q <sup>2</sup> scale t $\bar{t}$	-2.7/+4.1%	-2.5/+4.0%	-3.9/+3.4%
Q <sup>2</sup> scale tW	-0.3/+0.5%	-0.4/+0.3%	-1.1/+0.4%
Q <sup>2</sup> scale W+jets	-2.7/+3.0%	-2.5/+4.2%	-5/+2.4%
PDF uncertainty	-3.0/+2.6%	-3.1/+3.2%	-3.7/+4.2%
top <i>p</i> <sub>T</sub> modeling	$\pm 0.1\%$	$\pm 0.1\%$	$\pm 0.2\%$
total theory uncertainties	-12.1/+12.6	-13.8/+13.6	-13.5/+13.4%
luminosity	$\pm 2.7\%$	$\pm 2.7\%$	$\pm 2.7\%$
total uncertainty	-14.5/+14.8%	-16.3/+16.1%	-18.6/+18.6%