| Top quark rapidity interval | | [0.0; 0.2] | [0.2; 0.5] | [0.5; 0.8] | [0.8; 1.3] | [1.3; 2.6] |
|---|---|---|---|---|---|---|
| $\frac{1}{\sigma_{t\bar{t}}}\frac{d\sigma_{t\bar{t}}}{d\lvert y\rvert}$ | | 0.85 | 0.75 | 0.59 | 0.46 | 0.15 |
| Profiled uncertainties | Statistical | ±3.5% | ±2.5% | ±3.1% | ±3.7% | ±4.5% |
| | $t\bar{t}$/tW normalisation | ±0.7% | ±0.4% | ±0.8% | ±0.8% | ±1.3% |
| | W/Z/$\gamma^*$+jets normalisation | ±0.7% | ±1.0% | <0.1% | ±1.4% | ±1.8% |
| | Multijet normalisation | ±0.1% | ±0.2% | ±0.3% | ±0.5% | ±0.7% |
| | Multijet shape | <0.1% | ±0.5% | ±0.3% | ±0.3% | ±1.4% |
| | Jet energy scale and resolution | <0.1% | ±0.5% | ±0.6% | ±0.9% | ±1.0% |
| | b tagging efficiencies and misidentification | ±0.3% | ±0.6% | ±0.2% | ±0.4% | ±0.9% |
| | Others | <0.1% | ±0.7% | ±0.2% | ±1.2% | ±1.5% |
| Theoretical uncertainties | Top quark mass | ±3.0% | <0.1% | ±2.3% | ±1.4% | ±0.9% |
| | PDF+$\alpha_S$ | ±0.1% | ±0.3% | ±0.2% | ±0.1% | ±0.2% |
| | $t$ channel renormalisation and factorisation scales | ±0.6% | ±0.9% | ±1.1% | ±0.4% | <0.1% |
| | $t$ channel parton shower | ±3.5% | ±3.5% | ±5.2% | ±4.3% | ±3.6% |
| | $t\bar{t}$ renormalisation and factorisation scales | ±0.2% | <0.1% | ±0.8% | ±0.3% | ±0.7% |
| | $t\bar{t}$ parton shower | ±4.0% | ±0.6% | ±2.8% | ±1.5% | ±3.7% |
| | $t\bar{t}$ underlying event tune | ±1.7% | ±1.1% | ±1.7% | ±3.3% | ±2.7% |
| | $t\bar{t}$ $p_T$ reweighting | ±0.2% | <0.1% | ±0.1% | ±0.3% | ±0.2% |
| | W+jets renormalisation and factorisation scales | ±2.0% | ±0.6% | ±0.4% | ±0.7% | ±2.8% |
| | Color reconnection | ±1.2% | ±1.6% | ±1.3% | ±1.9% | ±1.9% |
| | Fragmentation model | ±0.6% | <0.1% | ±0.3% | ±0.4% | ±0.8% |
| Profiled uncertainties only (statistical+experimental) | | ±4.1% | ±2.8% | ±3.6% | ±4.4% | ±5.7% |
| Total uncertainties | | ±8.0% | ±4.9% | ±7.6% | ±7.6% | ±9.1% |