| Top quark p_T interval (GeV) | | [0; 50] | [50; 80] | [80; 120] | [120; 180] | [180; 300] |
|--------------------------------|---|----------------------|----------------------|----------------------|----------------------|----------------------|
| | $\frac{\mathrm{d}\sigma_{t+\bar{t}}}{\mathrm{d}p_{T}}(1/GeV)$ | 3.1×10^{-3} | 1.2×10^{-2} | 7.6×10^{-3} | 2.3×10^{-3} | 3.6×10^{-4} |
| Profiled uncertainties | Statistical | ±5.4% | ±1.5% | ±2.4% | $\pm 5.4\%$ | ±7.6% |
| | tt/tW normalisation | $\pm 0.5\%$ | $\pm 0.3\%$ | < 0.1% | $\pm 2.1\%$ | $\pm 3.5\%$ |
| | $W/Z/\gamma^*$ +jets | $\pm 1.4\%$ | $\pm 0.3\%$ | < 0.1% | $\pm 1.8\%$ | < 0.1% |
| | normalisation | | | | | |
| | Multijet | $\pm 1.0\%$ | $\pm 0.2\%$ | < 0.1% | $\pm 1.1\%$ | $\pm 1.3\%$ |
| | normalisation | | | | | |
| | Multijet shape | $\pm 0.9\%$ | $\pm 0.2\%$ | $\pm 0.2\%$ | $\pm 1.1\%$ | < 0.1% |
| | Jet energy scale | $\pm 1.9\%$ | $\pm 0.1\%$ | $\pm 0.3\%$ | $\pm 1.6\%$ | $\pm 1.1\%$ |
| | and resolution | | | | | |
| | b tagging efficiencies | $\pm 0.6\%$ | <0.1% | < 0.1% | $\pm 0.5\%$ | < 0.1% |
| | and misidentification | | | | | |
| | Others | $\pm 0.8\%$ | $\pm 0.3\%$ | <0.1% | $\pm 1.4\%$ | ±0.6% |
| Theoretical uncertainties | Top quark mass | $\pm 1.5\%$ | $\pm 0.5\%$ | $\pm 0.5\%$ | $\pm 1.2\%$ | $\pm 9.1\%$ |
| | PDF+ α_S | $\pm 1.1\%$ | $\pm 0.3\%$ | $\pm 0.2\%$ | $\pm 0.1\%$ | $\pm 0.3\%$ |
| | t channel renormalisation | $\pm 3.4\%$ | $\pm 1.5\%$ | <0.1% | $\pm 0.9\%$ | $\pm 2.9\%$ |
| | and factorisation scales | | | | | |
| | <i>t</i> channel parton | $\pm 6.1\%$ | $\pm 2.7\%$ | $\pm 0.3\%$ | $\pm 3.3\%$ | $\pm 4.6\%$ |
| | shower | | | | | |
| | tt̄ renormalisation | $\pm 0.2\%$ | $\pm 1.0\%$ | $\pm 0.2\%$ | $\pm 2.3\%$ | $\pm 1.7\%$ |
| | and factorisation scales | | | | | |
| | t t parton shower | $\pm 8.2\%$ | $\pm 2.0\%$ | $\pm 1.4\%$ | $\pm 7.0\%$ | $\pm 16.6\%$ |
| | t ī underlying | $\pm 3.2\%$ | $\pm 1.2\%$ | $\pm 0.5\%$ | $\pm 6.1\%$ | $\pm 1.3\%$ |
| | event tune | | | | | |
| | $t\bar{t}\;p_{\mathrm{T}}\;reweighting$ | $\pm 1.0\%$ | $\pm 0.4\%$ | $\pm 0.3\%$ | $\pm 0.2\%$ | $\pm 0.9\%$ |
| | W+jets renormalisation | $\pm 2.0\%$ | $\pm 0.1\%$ | $\pm 0.8\%$ | $\pm 1.4\%$ | $\pm 1.8\%$ |
| | and factorisation scales | | | | | |
| | Color reconnection | $\pm 3.5\%$ | $\pm 2.2\%$ | $\pm 1.8\%$ | $\pm 4.1\%$ | $\pm 6.7\%$ |
| | Fragmentation model | ±3.0% | $\pm 0.8\%$ | $\pm 0.6\%$ | ±3.0% | $\pm 4.2\%$ |
| Profiled uncertainties only | | $\pm 6.6\%$ | $\pm 1.6\%$ | $\pm 2.6\%$ | $\pm 6.7\%$ | $\pm 9.4\%$ |
| (statistical+experimental) | | | | | | |
| Total uncertainties | | $\pm 14.5\%$ | $\pm 5.1\%$ | ±3.9% | $\pm 13.4\%$ | $\pm 24.1\%$ |