| W boson $p_{\rm T}$ interval (GeV) | | [0; 35] | [35; 55] | [55; 80] | [80; 140] | [140; 250] |
|---|----------------------------|-------------|-------------|-------------|-------------|--------------|
| $\frac{\mathrm{d}\sigma_{\mathrm{t}}}{d\sigma_{\mathrm{t}+\bar{\mathrm{t}}}}$ | | 0.64 | 0.62 | 0.61 | 0.62 | 0.57 |
| dp_1 | | 0.04 | 0.02 | 0.01 | 0.02 | 0.57 |
| Profiled uncertainties | Statistical | $\pm 3.4\%$ | $\pm 2.8\%$ | $\pm 3.2\%$ | $\pm 3.1\%$ | $\pm 8.3\%$ |
| | tt/tW normalisation | $\pm 0.7\%$ | $\pm 0.7\%$ | $\pm 0.8\%$ | $\pm 1.3\%$ | $\pm 3.7\%$ |
| | $W/Z/\gamma^*$ +jets | $\pm 0.3\%$ | $\pm 0.4\%$ | $\pm 0.3\%$ | $\pm 0.8\%$ | $\pm 1.3\%$ |
| | normalisation | | | | | |
| | Multijet | $\pm 0.3\%$ | $\pm 0.2\%$ | $\pm 0.2\%$ | <0.1% | $\pm 1.0\%$ |
| | normalisation | | | | | |
| | Multijet shape | $\pm 0.2\%$ | $\pm 0.3\%$ | $\pm 0.4\%$ | $\pm 0.6\%$ | <0.1% |
| | Jet energy scale | $\pm 0.1\%$ | <0.1% | $\pm 0.5\%$ | $\pm 0.5\%$ | <0.1% |
| | and resolution | | | | | |
| | b tagging efficiencies | $\pm 0.1\%$ | $\pm 0.5\%$ | $\pm 0.1\%$ | $\pm 0.5\%$ | $\pm 1.6\%$ |
| | and misidentification | | | | | |
| | Others | $\pm 0.2\%$ | $\pm 0.2\%$ | $\pm 0.6\%$ | $\pm 0.8\%$ | $\pm 0.8\%$ |
| Theoretical uncertainties | Top quark mass | $\pm 0.9\%$ | $\pm 0.5\%$ | $\pm 1.3\%$ | $\pm 0.4\%$ | $\pm 2.8\%$ |
| | PDF+ α_S | $\pm 0.2\%$ | $\pm 0.1\%$ | $\pm 0.2\%$ | $\pm 0.3\%$ | $\pm 0.5\%$ |
| | t channel renormalisation | $\pm 0.2\%$ | $\pm 0.2\%$ | <0.1% | $\pm 0.2\%$ | $\pm 0.6\%$ |
| | and factorisation scales | | | | | |
| | t channel parton | $\pm 2.8\%$ | $\pm 0.4\%$ | $\pm 1.7\%$ | $\pm 2.0\%$ | $\pm 8.6\%$ |
| | shower | | | | | |
| | tt̄ renormalisation | $\pm 0.3\%$ | $\pm 0.4\%$ | $\pm 0.5\%$ | $\pm 0.5\%$ | $\pm 2.2\%$ |
| | and factorisation scales | | | 1 | | |
| | tt parton shower | $\pm 2.5\%$ | $\pm 0.5\%$ | $\pm 2.8\%$ | $\pm 2.1\%$ | $\pm 5.7\%$ |
| | t t underlying | $\pm 1.4\%$ | $\pm 0.8\%$ | $\pm 1.9\%$ | $\pm 0.4\%$ | $\pm 5.8\%$ |
| | event tune | - 10/ | | | | |
| | $t\bar{t} p_T$ reweighting | <0.1% | <0.1% | $\pm 0.1\%$ | ±0.4% | $\pm 0.4\%$ |
| | W+jets renormalisation | $\pm 0.7\%$ | $\pm 0.4\%$ | $\pm 0.6\%$ | $\pm 0.5\%$ | $\pm 2.5\%$ |
| | and factorisation scales | | / | | 1.0.65/ | . = |
| | Color reconnection | ±1.1% | $\pm 0.5\%$ | $\pm 1.3\%$ | $\pm 0.8\%$ | ±5.7% |
| | Fragmentation model | ±0.1% | ±0.6% | ±0.1% | ±0.2% | ±1.1% |
| Profiled uncertainties only | | $\pm 3.5\%$ | $\pm 3.0\%$ | $\pm 3.4\%$ | $\pm 3.4\%$ | $\pm 9.3\%$ |
| (statistical+experimental) | | | | | | |
| Total uncertainties | | $\pm 5.5\%$ | $\pm 3.4\%$ | $\pm 5.7\%$ | $\pm 4.6\%$ | $\pm 17.4\%$ |