| Source | Uncertainty in tcH Prediction | Uncertainty in tuH Prediction | Uncertainty in SM SS Prediction | Uncertainty in Nonprompt Estimate | Uncertainty in Charge Flip Estimate |
|---|---|---|---|---|---|
| Jet energy scale | 1–6% | < 8% | < 5% | - | - |
| Theory normalization | 6–10% | 6–10% | 5–25% | - | - |
| PDF shape | < 2% | < 2% | 4–6% | - | - |
| Renormalization and factorization scale shape | 7–9% | 2–6% | 10–15% | - | - |
| Pileup | < 2% | < 2% | < 2% | - | - |
| Trigger efficiency | 2% | 2% | 2% | - | - |
| Lepton efficiency | 2–3% | 2–3% | 2–3% | - | - |
| b/c tagging | 10–16% | 6–13% | 7–14% | - | - |
| Estimate normalization | - | - | - | 30% | 30% |
| $\epsilon_{TL}/\epsilon_q$ | - | - | - | 7–10% | <5% |
| Total | 14–16% | 11–14% | 20–28% | 31–35% | 29–31% |