| | SigXsecOverSM | Z+jets scale variations | Z+jets PDF variations | Z+jets HF contribution | Z+jets generator | W+jets scale variations | W+jets PDF variations | $t\bar{t}$ PDF variation | $t\bar{t}$ hard scatter gen. | $t\bar{t}$ fragm./hadr. model | $t\bar{t}$ add. radiation | FatJet $\tau_{32}^{wta}$ resolution | FatJet $p_T$ resolution | FatJet r-track modelling | FatJet r-track baseline | FatJet mass resolution | JES EIC modelling | Jet energy resolution | JES flavor composition | Est. multi-jet norm. | Est. multi-jet closure | B-tag(70) eff. b EV 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SigXsecOverSM | 100.0 | 8.3 | -4.0 | -24.5 | 9.7 | -8.5 | -12.2 | 1.6 | 26.0 | -19.1 | -0.3 | 6.6 | -6.3 | -6.4 | 24.7 | -7.1 | -13.8 | -3.4 | -28.1 | 12.4 | 6.2 | -7.1 |
| Z+jets scale variations | 8.3 | 100.0 | -8.6 | -5.6 | -8.0 | 13.4 | -0.1 | 9.9 | -13.0 | -5.7 | 2.6 | 25.8 | -0.0 | 1.1 | 21.5 | -20.9 | 1.0 | 0.4 | 5.1 | 3.0 | -7.5 | -3.8 |
| Z+jets PDF variations | -4.0 | -8.6 | 100.0 | -4.6 | -17.3 | -0.3 | -2.8 | 9.8 | 2.4 | -12.8 | 5.3 | 21.3 | -2.6 | -2.2 | -3.5 | -9.6 | 1.2 | 2.7 | 2.2 | 1.9 | 0.3 | -2.8 |
| Z+jets HF contribution | -24.5 | -5.6 | -4.6 | 100.0 | 16.8 | 10.3 | -2.6 | 5.2 | -6.2 | -3.8 | -5.7 | 10.7 | -4.1 | -3.4 | 0.7 | -22.3 | -7.0 | -6.7 | -11.4 | 0.4 | -1.3 | -2.5 |
| Z+jets generator | 9.7 | -8.0 | -17.3 | 16.8 | 100.0 | -10.8 | 2.5 | 12.2 | -5.9 | -14.9 | 6.7 | 53.4 | -10.4 | 4.1 | 20.6 | 15.0 | 3.1 | 4.1 | 6.8 | 2.3 | -1.6 | -3.4 |
| W+jets scale variations | -8.5 | 13.4 | -0.3 | 10.3 | -10.8 | 100.0 | -13.0 | 4.2 | 7.0 | -11.4 | 5.8 | 12.2 | -7.9 | -3.6 | -20.8 | 14.1 | 0.6 | 2.2 | -1.2 | 0.7 | 6.0 | -0.7 |
| W+jets PDF variations | -12.2 | -0.1 | -2.8 | -2.6 | 2.5 | -13.0 | 100.0 | 5.6 | 12.1 | -11.5 | 4.2 | 1.0 | -1.6 | -7.2 | -28.1 | -12.8 | 1.7 | 2.9 | 1.1 | -0.2 | 5.4 | -1.0 |
| $t\bar{t}$ PDF variation | 1.6 | 9.9 | 9.8 | 5.2 | 12.2 | 4.2 | 5.6 | 100.0 | 18.6 | 35.5 | -8.1 | 30.4 | 4.5 | 0.6 | -15.2 | 3.8 | -0.7 | -1.1 | -6.7 | -4.5 | 9.1 | 8.8 |
| $t\bar{t}$ hard scatter gen. | 26.0 | -13.0 | 2.4 | -6.2 | -5.9 | 7.0 | 12.1 | 18.6 | 100.0 | 4.9 | 22.8 | -4.8 | -21.5 | -6.5 | -8.6 | 18.7 | -20.5 | -28.9 | -6.4 | 15.4 | 30.6 | -21.0 |
| $t\bar{t}$ fragm./hadr. model | -19.1 | -5.7 | -12.8 | -3.8 | -14.9 | -11.4 | -11.5 | 35.5 | 4.9 | 100.0 | -8.1 | -33.9 | -3.3 | -1.5 | 10.8 | -3.4 | 4.1 | 7.5 | 9.3 | -4.5 | 5.9 | -8.5 |
| $t\bar{t}$ add. radiation | -0.3 | 2.6 | 5.3 | -5.7 | 6.7 | 5.8 | 4.2 | -8.1 | 22.8 | -8.1 | 100.0 | -5.5 | -59.9 | 6.5 | 19.7 | -0.4 | -2.9 | -4.1 | 4.3 | -43.9 | 19.8 | 8.3 |
| FatJet $\tau_{32}^{wta}$ resolution | 6.6 | 25.8 | 21.3 | 10.7 | 53.4 | 12.2 | 1.0 | 30.4 | -4.8 | -33.9 | -5.5 | 100.0 | 18.4 | -1.5 | -25.1 | 18.4 | 5.6 | 7.5 | 15.6 | 3.8 | -20.9 | -8.0 |
| FatJet $p_T$ resolution | -6.3 | -0.0 | -2.6 | -4.1 | -10.4 | -7.9 | -1.6 | 4.5 | -21.5 | -3.3 | -59.9 | 18.4 | 100.0 | -7.3 | -37.3 | 3.6 | -8.4 | -10.8 | -0.4 | 1.1 | -66.9 | -3.9 |
| FatJet r-track modelling | -6.4 | 1.1 | -2.2 | -3.4 | 4.1 | -3.6 | -7.2 | 0.6 | -6.5 | -1.5 | 6.5 | -1.5 | -7.3 | 100.0 | -34.1 | -10.2 | -0.9 | -0.3 | -1.3 | 2.2 | 1.5 | -2.0 |
| FatJet r-track baseline | 24.7 | 21.5 | -3.5 | 0.7 | 20.6 | -20.8 | -28.1 | -15.2 | -8.6 | 10.8 | 19.7 | -25.1 | -37.3 | -34.1 | 100.0 | -32.7 | 3.0 | 1.8 | 1.8 | 0.9 | 17.4 | -1.0 |
| FatJet mass resolution | -7.1 | -20.9 | -9.6 | -22.3 | 15.0 | 14.1 | -12.8 | 3.8 | 18.7 | -3.4 | -0.4 | 18.4 | 3.6 | -10.2 | -32.7 | 100.0 | 2.0 | 2.7 | 2.0 | -1.4 | 3.6 | 0.4 |
| JES EIC modelling | -13.8 | 1.0 | 1.2 | -7.0 | 3.1 | 0.6 | 1.7 | -0.7 | -20.5 | 4.1 | -2.9 | 5.6 | -8.4 | -0.9 | 3.0 | 2.0 | 100.0 | -6.6 | -7.4 | 2.9 | -2.5 | -2.0 |
| Jet energy resolution | -3.4 | 0.4 | 2.7 | -6.7 | 4.1 | 2.2 | 2.9 | -1.1 | -28.9 | 7.5 | -4.1 | 7.5 | -10.8 | -0.3 | 1.8 | 2.7 | -6.6 | 100.0 | -6.5 | 2.6 | -4.9 | -1.8 |
| JES flavor composition | -28.1 | 5.1 | 2.2 | -11.4 | 6.8 | -1.2 | 1.1 | -6.7 | -6.4 | 9.3 | 4.3 | 15.6 | -0.4 | -1.3 | 1.8 | 2.0 | -7.4 | -6.5 | 100.0 | 3.5 | -0.0 | -0.1 |
| Est. multi-jet norm. | 12.4 | 3.0 | 1.9 | 0.4 | 2.3 | 0.7 | -0.2 | -4.5 | 15.4 | -4.5 | -43.9 | 3.8 | 1.1 | 2.2 | 0.9 | -1.4 | 2.9 | 2.6 | 3.5 | 100.0 | 12.3 | 5.2 |
| Est. multi-jet closure | 6.2 | -7.5 | 0.3 | -1.3 | -1.6 | 6.0 | 5.4 | 9.1 | 30.6 | 5.9 | 19.8 | -20.9 | -66.9 | 1.5 | 17.4 | 3.6 | -2.5 | -4.9 | -0.0 | 12.3 | 100.0 | -3.8 |
| B-tag(70) eff. b EV 2 | -7.1 | -3.8 | -2.8 | -2.5 | -3.4 | -0.7 | -1.0 | 8.8 | -21.0 | -8.5 | 8.3 | -8.0 | -3.9 | -2.0 | -1.0 | 0.4 | -2.0 | -1.8 | -0.1 | 5.2 | -3.8 | 100.0 |