| Stream | | $\Delta\sigma_{pp\to Z\to\tau\tau}$ [%] | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| | | $\tau_\mu\tau_\mu$ | $\tau_\mu\tau_e$ | $\tau_e\tau_\mu$ | $\tau_\mu\tau_h$ | $\tau_e\tau_h$ |
| $\mathcal{A}$ | | 1.48 | 1.61 | 1.32 | 1.10 | 1.11 |
| $\mathcal{B}$ | | 0.46 | 0.32 | 0.32 | 0.32 | 0.33 |
| $N_{\mathrm{bkg}}$ | $N_{\mathrm{QCD}}$ | 4.33 | 0.80 | 3.08 | 0.40 | 0.92 |
| | $N_{\mathrm{EWK}}$ | 4.22 | 1.54 | 1.52 | 0.40 | 0.72 |
| | $N_{t\bar{t}}$ | 0.02 | 0.08 | 0.12 | 0.00 | 0.58 |
| | $N_{WW}$ | 0.02 | 0.14 | 0.13 | 0.09 | 0.08 |
| | $N_Z$ | 8.00 | – | – | 0.22 | 0.23 |
| Total $N_{\mathrm{bkg}}$ | | 10.03 | 1.75 | 3.44 | 0.61 | 1.32 |
| $\varepsilon_{\mathrm{rec}}$ | $\varepsilon_{\mathrm{GEC}}$ | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| | $\varepsilon_{\mathrm{trg}}$ | 0.88 | 0.71 | 2.29 | 0.72 | 4.30 |
| | $\varepsilon_{\mathrm{trk}}^{(1)}$ | 0.71 | 0.74 | 3.67 | 0.79 | 3.67 |
| | $\varepsilon_{\mathrm{trk}}^{(2)}$ | 0.34 | 3.67 | 0.61 | 1.76 | 1.68 |
| | $\varepsilon_{\mathrm{id}}^{(1)}$ | 0.38 | 0.28 | 1.72 | 0.29 | 1.73 |
| | $\varepsilon_{\mathrm{id}}^{(2)}$ | 0.78 | 0.18 | 0.56 | 0.03 | 0.09 |
| Total $\varepsilon_{\mathrm{rec}}$ | | 1.47 | 4.21 | 4.73 | 2.08 | 6.15 |
| $\varepsilon_{\mathrm{sel}}$ | $\varepsilon_{\mathrm{kin}}$ | – | 1.04 | 2.89 | – | 1.91 |
| | $\varepsilon_{I_{p_{\mathrm{T}}}}$ | 1.79 | 1.91 | 3.19 | 1.65 | 2.75 |
| | $\varepsilon_{|\Delta\Phi|}$ | 1.08 | 1.03 | 1.86 | 0.60 | 0.97 |
| | $\varepsilon_{\mathrm{IPS}}$ | 2.70 | – | – | 1.92 | 2.85 |
| | $\varepsilon_{A_{p_{\mathrm{T}}}}$ | 2.03 | – | – | – | – |
| Total $\varepsilon_{\mathrm{sel}}$ | | 3.97 | 2.41 | 4.69 | 2.60 | 4.50 |
| Total systematic | | 11.13 | 5.41 | 7.56 | 3.88 | 7.88 |