

uncertainty source	$\Delta\sigma_{t\text{-ch.},t+\bar{t}}/\sigma_{t\text{-ch.},t+\bar{t}}^{\text{obs}}$	$\Delta\sigma_{t\text{-ch.},t}/\sigma_{t\text{-ch.},t}^{\text{obs}}$	$\Delta\sigma_{t\text{-ch.},\bar{t}}/\sigma_{t\text{-ch.},\bar{t}}^{\text{obs}}$
JES	$\pm 4.9\%$	$\pm 5.6\%$	$\pm 3.7\%$
JER	$\pm 0.7\%$	$\pm 0.2\%$	$\pm 1.5\%$
b-tagging efficiency	$\pm 2.3\%$	$\pm 2.1\%$	$\pm 1.6\%$
mis-tagging efficiency	$\pm 0.8\%$	$\pm 1.2\%$	$\pm 0.4\%$
lepton reconstruction/trigger	$\pm 2.5\%$	$\pm 2.0\%$	$\pm 2.9\%$