



$\sigma_{\text{meas.}} \pm (\text{stat.}) \pm (\text{syst.})$

$t\bar{t}W$

$0.89 \pm 0.05 \pm 0.07$ pb

$0.87 \pm 0.04 \pm 0.05$ pb

$t\bar{t}Z$

$0.99 \pm 0.05 \pm 0.08$ pb

$0.95 \pm 0.05 \pm 0.06$ pb

$t\bar{t}\gamma+tW\gamma$ $e\mu$

$0.0396 \pm 0.0008^{+0.0026}_{-0.0022}$ pb $\times 20$

$t\bar{t}\gamma$ dilepton

$0.175 \pm 0.003 \pm 0.006$ pb $\times 5$

$t\bar{t}\gamma$ l+jets

$0.798 \pm 0.007 \pm 0.048$ pb

total stat.

ATLAS, $L_{\text{int}} = 140 \text{ fb}^{-1}$

ATLAS-CONF-2023-019*

CMS, $L_{\text{int}} = 138.0 \text{ fb}^{-1}$

arXiv:2208.06485

ATLAS, $L_{\text{int}} = 139 \text{ fb}^{-1}$

EPJC 81 (2021) 737

CMS, $L_{\text{int}} = 77.5 \text{ fb}^{-1}$

JHEP 03 (2020) 056

ATLAS, $L_{\text{int}} = 139 \text{ fb}^{-1}$, Vis 1

JHEP 09 (2020) 049

CMS, $L_{\text{int}} = 138 \text{ fb}^{-1}$, Vis 2

JHEP 05 (2022) 091

CMS, $L_{\text{int}} = 137 \text{ fb}^{-1}$, Vis 3

JHEP 12 (2021) 180

*preliminary

$\sigma_{t\bar{t}X}$ [pb]