

13 TeV]Event yields for tHq and tHW signal (for the SM and ITC scenarios) as well as the various background processes in the two signal regions. The uncertainties include both systematic and statistical uncertainties. Additionally, the numbers of observed events in data are shown.

	3 tag	4 tag
$t\bar{t}+LF$	2119 ± 651	21.3 ± 21.6
$t\bar{t}+c\bar{c}$	852 ± 624	39 ± 46
$t\bar{t}+b$	324 ± 203	18.7 ± 15.3
$t\bar{t}+b\bar{b}$	333 ± 298	71 ± 67
$t\bar{t}+2b$	177 ± 102	13.0 ± 9.6
Single top	156 ± 44	6.0 ± 2.4
$t\bar{t}H$	20.3 ± 9.7	5.3 ± 2.9
$t\bar{t}Z$	9.4 ± 2.3	1.8 ± 1.7
$t\bar{t}W$	8.0 ± 2.5	0.4 ± 0.4
W+jets	42 ± 35	0.0 ± 0.0
Z+jets	10.2 ± 5.0	0.0 ± 0.0
Sum of Backgrounds	4051 ± 978	177 ± 86
tHq (SM)	0.77 ± 0.21	0.12 ± 0.04
tHW (SM)	0.61 ± 0.09	0.09 ± 0.02
tHq (ITC)	11.2 ± 3.1	1.7 ± 0.6
tHW (ITC)	6.7 ± 1.0	1.1 ± 0.3
Observed	3603	171