

Category	$2lss$	$3l$	$4l$	$1l + 2\tau_h$	$2l + 2\tau_h$	$3l + 1\tau_h$	$2lss + 1\tau_h$
$t\bar{t}H$	43.0 ± 7.1	18.8 ± 4.8	0.7 ± 0.3	6.6 ± 3.6	0.9 ± 0.5	1.0 ± 0.4	5.1 ± 2.1
$t\bar{t}W + t\bar{t}WW$	218.5 ± 13.7	51.0 ± 5.3	0.13 ± 0.03	1.1 ± 0.3	< 0.05	0.5 ± 0.1	13.1 ± 2.4
tH	2.4 ± 0.1	0.9 ± 0.1	< 0.05	0.3 ± 0.1	< 0.05	< 0.05	0.5 ± 0.0
$WZ + ZZ$	< 0.05	12.0 ± 1.7	0.15 ± 0.10	1.5 ± 0.8	< 0.05	0.1 ± 0.0	2.8 ± 2.0
$t\bar{t}Z/\gamma^*$	138.2 ± 7.6	74.1 ± 6.3	3.9 ± 0.6	11.6 ± 2.6	1.6 ± 0.5	4.5 ± 0.7	15.4 ± 2.4
Misidentified	132.1 ± 10.0	26.8 ± 4.0	< 0.05	299.6 ± 19.1	5.3 ± 2.2	0.3 ± 0.3	5.3 ± 2.2
Conversions	11.6 ± 3.0	6.6 ± 1.3	< 0.05	0.3 ± 0.1	< 0.05	< 0.05	< 0.05
Signal flip	22.8 ± 2.3	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Other	26.7 ± 3.9	9.7 ± 2.2	< 0.05	1.2 ± 0.5	0.06 ± 0.04	0.3 ± 0.2	3.2 ± 1.1
SM expectation	595.3 ± 20.6	200.0 ± 10.8	5.0 ± 0.7	322.0 ± 19.6	7.9 ± 2.3	6.7 ± 0.9	45.3 ± 5.1
Observed data	614	195	6	324	7	4	53