

Channel	Dileptonic $t\bar{t} + p_T^{\text{miss}}$			$\ell + \text{jets}$ $t\bar{t} + p_T^{\text{miss}}$	All-hadronic $t\bar{t} + p_T^{\text{miss}}$		$b\bar{b} + p_T^{\text{miss}}$	
	ee	$e\mu$	$\mu\mu$	e, μ	0,1 RTT	2 RTT	1 b tag	2 b tags
$t\bar{t}$	1133 ± 29	4228 ± 73	2412 ± 51	24.6 ± 2.2	203 ± 18	152 ± 13	284 ± 28	145 ± 11
W + jets	—	—	—	6.4 ± 1.6	23.1 ± 4.5	11.9 ± 1.3	829 ± 59	38.5 ± 5.5
Z + jets	14 ± 12	2.5 ± 4.7	32 ± 15	0.10 ± 0.04	44 ± 11	13.0 ± 1.3	1613 ± 64	110.7 ± 6.7
Single t	57 ± 12	182 ± 36	104 ± 22	7.0 ± 2.0	19.1 ± 2.0	7.3 ± 1.4	105 ± 16	23.6 ± 4.0
Diboson	2.0 ± 0.4	4.0 ± 0.6	3.1 ± 0.5	1.7 ± 0.4	3.3 ± 0.3	1.0 ± 0.3	38.7 ± 6.6	9.2 ± 1.6
Multijets	—	—	—	—	0.10 ± 0.08	2.9 ± 2.2	52 ± 22	0.5 ± 0.2
Misid. lepton	2.5 ± 7.7	24 ± 11	29.0 ± 8.7	—	—	—	—	—
Background	1208 ± 32	4439 ± 71	2580 ± 52	39.8 ± 3.4	293 ± 21	188 ± 12	2922 ± 77	327 ± 12
Data	1203	4436	2585	45	305	181	2919	337

$m_a = 50 \text{ GeV}$

$t\bar{t} + \chi\bar{\chi}$	1.19 ± 0.37	3.48 ± 0.73	1.62 ± 0.36	5.9 ± 1.0	7.5 ± 1.5	8.4 ± 1.8	1.21 ± 0.38	1.34 ± 0.34
$b\bar{b} + \chi\bar{\chi}$	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0.01 ± 0.05	0 ± 0	3.44 ± 0.94	0.55 ± 0.22

$m_\phi = 100 \text{ GeV}$

$t\bar{t} + \chi\bar{\chi}$	1.27 ± 0.49	6.3 ± 1.1	2.51 ± 0.76	4.44 ± 0.95	7.3 ± 2.0	10.2 ± 3.1	2.22 ± 0.53	2.11 ± 0.64
$b\bar{b} + \chi\bar{\chi}$	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0.16 ± 0.16	0.04 ± 0.14	2.21 ± 0.66	0.49 ± 0.15