

	$t\bar{t}b$	$t\bar{t}b\bar{b}$	$t\bar{t}B$	$t\bar{t}c$	$t\bar{t}c\bar{c}$	$t\bar{t}C$	$t\bar{t}light$	$t\bar{t}W$	$t\bar{t}Z$	$t\bar{t}H$	$t\bar{t}a20$	$Total\ Bkg$
1 $Lepton$	2774.48 ± 9.91	883.44 ± 5.59	508.68 ± 4.24	6691.27 ± 15.39	1161.22 ± 6.41	3105.61 ± 10.49	155648.42 ± 74.25	139.30 ± 0.28	91.53 ± 0.17	68.24 ± 0.21	102.56 ± 0.49	171072.19 ± 77.77
$X\ AKT4$	1931.39 ± 8.27	800.20 ± 5.32	377.42 ± 3.66	4497.68 ± 12.62	1039.42 ± 6.07	2140.71 ± 8.71	61865.97 ± 46.81	85.66 ± 0.22	78.39 ± 0.15	51.31 ± 0.18	69.79 ± 0.40	72868.15 ± 50.73
$X\ tags$	78.33 ± 0.67	123.34 ± 0.98	32.59 ± 0.49	44.70 ± 0.29	28.84 ± 0.25	26.99 ± 0.23	128.51 ± 0.52	0.60 ± 0.01	2.83 ± 0.01	7.13 ± 0.03	5.60 ± 0.05	473.88 ± 1.46
CA^{BDRS}	73.51 ± 0.65	118.91 ± 0.96	31.82 ± 0.48	41.68 ± 0.28	27.84 ± 0.25	25.98 ± 0.22	117.35 ± 0.50	0.58 ± 0.01	2.74 ± 0.01	6.92 ± 0.03	5.49 ± 0.05	447.34 ± 1.42
$2tags$	25.62 ± 0.42	34.90 ± 0.52	22.50 ± 0.42	13.33 ± 0.18	8.25 ± 0.15	10.48 ± 0.15	51.26 ± 0.37	0.22 ± 0.00	0.79 ± 0.01	1.85 ± 0.02	3.62 ± 0.04	169.22 ± 0.92

	$t\bar{t}+ \geq 1b$	$t\bar{t}+ \geq 1c$	$t\bar{t} + lightjets$	$t\bar{t} + X(X = W, Z, H)$	$Total\ Background$	$t\bar{t}a20$
1 $Lepton$	4166.59 ± 12.15	10958.10 ± 19.70	155648.42 ± 0.37	299.08 ± 0.39	171072.19 ± 77.77	102.56 ± 0.49
$X\ AKT4$	3109.01 ± 10.49	7677.81 ± 16.49	61865.97 ± 0.37	215.36 ± 0.32	72868.15 ± 50.73	69.79 ± 0.40
$X\ tags$	234.27 ± 1.28	100.53 ± 0.44	128.51 ± 0.37	10.57 ± 0.04	473.88 ± 1.46	5.60 ± 0.05
CA^{BDRS}	224.24 ± 1.26	95.50 ± 0.43	117.35 ± 0.37	10.24 ± 0.03	447.34 ± 1.42	5.49 ± 0.05
$2tags$	83.02 ± 0.79	32.07 ± 0.28	51.26 ± 0.37	2.87 ± 0.02	169.22 ± 0.92	3.62 ± 0.04