

	$t\bar{t}b$	$t\bar{t}b\bar{b}$	$t\bar{t}B$	$t\bar{t}c$	$t\bar{t}c\bar{c}$	$t\bar{t}C$	$t\bar{t}light$	$t\bar{t}W$	$t\bar{t}Z$	$t\bar{t}H$	$t\bar{t}a30$	$Total\ Bkg$
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	188.06 ± 0.90	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	134.00 ± 0.76	72868.15 ± 50.73
$X\ tags$	422.56 ± 2.24	243.05 ± 1.75	100.59 ± 1.12	409.03 ± 1.55	141.46 ± 0.99	214.25 ± 1.14	2701.98 ± 3.87	5.62 ± 0.02	9.11 ± 0.03	15.35 ± 0.06	36.20 ± 0.23	4263.00 ± 5.38
CA^{BDRS}	259.53 ± 1.76	175.19 ± 1.48	75.77 ± 0.97	249.83 ± 1.22	102.26 ± 0.85	149.63 ± 0.96	1484.87 ± 2.85	3.83 ± 0.02	6.49 ± 0.02	11.11 ± 0.05	27.86 ± 0.21	2518.50 ± 4.19
$2tags$	18.21 ± 0.47	13.57 ± 0.41	13.34 ± 0.41	19.43 ± 0.38	6.90 ± 0.23	12.07 ± 0.28	159.22 ± 1.10	0.39 ± 0.01	0.62 ± 0.01	0.91 ± 0.01	7.30 ± 0.11	244.65 ± 1.43

	$t\bar{t}+ \geq 1b$	$t\bar{t}+ \geq 1c$	$t\bar{t} + lightjets$	$t\bar{t} + X(X = W, Z, H)$	$Total\ Background$	$t\bar{t}a30$
1 $Lepton$	4166.59 ± 12.15	10958.10 ± 19.70	155648.42 ± 1.10	299.08 ± 0.39	171072.19 ± 77.77	188.06 ± 0.90
$X\ AKT4$	3109.01 ± 10.49	7677.81 ± 16.49	61865.97 ± 1.10	215.36 ± 0.32	72868.15 ± 50.73	134.00 ± 0.76
$X\ tags$	766.20 ± 3.05	764.74 ± 2.17	2701.98 ± 1.10	30.08 ± 0.07	4263.00 ± 5.38	36.20 ± 0.23
CA^{BDRS}	510.49 ± 2.50	501.72 ± 1.77	1484.87 ± 1.10	21.43 ± 0.06	2518.50 ± 4.19	27.86 ± 0.21
$2tags$	45.12 ± 0.75	38.40 ± 0.52	159.22 ± 1.10	1.92 ± 0.02	244.65 ± 1.43	7.30 ± 0.11