

	$t\bar{t}b$	$t\bar{t}b\bar{b}$	$t\bar{t}B$	$t\bar{t}c$	$t\bar{t}c\bar{c}$	$t\bar{t}C$	$t\bar{t}light$	$t\bar{t}W$	$t\bar{t}Z$	$t\bar{t}H$	$t\bar{t}H40$	$Total\ Bkg$
1 $Lepton$	$2774.48 \pm 9.91$	$883.44 \pm 5.59$	$508.68 \pm 4.24$	$6691.27 \pm 15.39$	$1161.22 \pm 6.41$	$3105.61 \pm 10.49$	$155648.42 \pm 74.25$	$139.30 \pm 0.28$	$91.53 \pm 0.17$	$68.24 \pm 0.21$	$1171.52 \pm 5.24$	$171072.19 \pm 77.77$
$X\ AKT4$	$1931.39 \pm 8.27$	$800.20 \pm 5.32$	$377.42 \pm 3.66$	$4497.68 \pm 12.62$	$1039.42 \pm 6.07$	$2140.71 \pm 8.71$	$61865.97 \pm 46.81$	$85.66 \pm 0.22$	$78.39 \pm 0.15$	$51.31 \pm 0.18$	$423.87 \pm 3.15$	$72868.15 \pm 50.73$
$X\ tags$	$78.33 \pm 0.67$	$123.34 \pm 0.98$	$32.59 \pm 0.49$	$44.70 \pm 0.29$	$28.84 \pm 0.25$	$26.99 \pm 0.23$	$128.51 \pm 0.52$	$0.60 \pm 0.01$	$2.83 \pm 0.01$	$7.13 \pm 0.03$	$28.10 \pm 0.36$	$473.88 \pm 1.46$
$CA^{BDRS}$	$41.33 \pm 0.50$	$78.28 \pm 0.78$	$22.63 \pm 0.41$	$22.86 \pm 0.21$	$17.90 \pm 0.20$	$16.38 \pm 0.18$	$58.62 \pm 0.35$	$0.37 \pm 0.00$	$1.78 \pm 0.01$	$4.38 \pm 0.03$	$14.77 \pm 0.27$	$264.53 \pm 1.13$
$2tags$	$8.68 \pm 0.24$	$13.70 \pm 0.32$	$9.09 \pm 0.27$	$4.48 \pm 0.10$	$3.10 \pm 0.09$	$3.66 \pm 0.08$	$14.62 \pm 0.19$	$0.08 \pm 0.00$	$0.40 \pm 0.00$	$0.82 \pm 0.01$	$5.41 \pm 0.17$	$58.65 \pm 0.55$

	$t\bar{t}+ \geq 1b$	$t\bar{t}+ \geq 1c$	$t\bar{t} + lightjets$	$t\bar{t} + X(X = W, Z, H)$	$Total\ Background$	$t\bar{t}H40$
1 $Lepton$	$4166.59 \pm 12.15$	$10958.10 \pm 19.70$	$155648.42 \pm 0.19$	$299.08 \pm 0.39$	$171072.19 \pm 77.77$	$1171.52 \pm 5.24$
$X\ AKT4$	$3109.01 \pm 10.49$	$7677.81 \pm 16.49$	$61865.97 \pm 0.19$	$215.36 \pm 0.32$	$72868.15 \pm 50.73$	$423.87 \pm 3.15$
$X\ tags$	$234.27 \pm 1.28$	$100.53 \pm 0.44$	$128.51 \pm 0.19$	$10.57 \pm 0.04$	$473.88 \pm 1.46$	$28.10 \pm 0.36$
$CA^{BDRS}$	$142.24 \pm 1.01$	$57.14 \pm 0.34$	$58.62 \pm 0.19$	$6.53 \pm 0.03$	$264.53 \pm 1.13$	$14.77 \pm 0.27$
$2tags$	$31.48 \pm 0.48$	$11.25 \pm 0.16$	$14.62 \pm 0.19$	$1.31 \pm 0.01$	$58.65 \pm 0.55$	$5.41 \pm 0.17$