

Bin	DY+jets	W+jets	$t\bar{t}$	QCD	Other SM	Sum	(200/100)	(500/200)	(700/300)
SR- $\tau_h\tau_h$ - $M_{T2,0}$ - $M_T,0$ - $N_j,0$	$79.67 \pm 32.14$	$58.80 \pm 43.95$	$13.21 \pm 3.86$	$5.41 \pm 0.17$	$2.92 \pm 2.35$	$160.00 \pm 54.63$	$104.79 \pm 4.62$	$1.19 \pm 0.05$	$0.22 \pm 0.01$
SR- $\tau_h\tau_h$ - $M_{T2,0}$ - $M_T,0$ - $N_j,1$	$57.76 \pm 15.39$	$5.07 \pm 0.52$	$104.54 \pm 11.30$	$28.19 \pm 0.33$	$8.78 \pm 2.62$	$204.33 \pm 19.28$	$56.96 \pm 3.40$	$0.79 \pm 0.04$	$0.16 \pm 0.01$
SR- $\tau_h\tau_h$ - $M_{T2,0}$ - $M_T,1$ - $N_j,0$	$9.86 \pm 6.28$	$3.96 \pm 0.29$	$4.53 \pm 2.24$	$1.26 \pm 0.09$	$3.70 \pm 1.54$	$23.31 \pm 6.85$	$26.51 \pm 2.32$	$0.72 \pm 0.04$	$0.17 \pm 0.01$
SR- $\tau_h\tau_h$ - $M_{T2,0}$ - $M_T,1$ - $N_j,1$	$1.36 \pm 0.06$	$1.33 \pm 0.13$	$31.25 \pm 6.01$	$3.84 \pm 0.11$	$2.79 \pm 1.54$	$40.57 \pm 6.21$	$18.99 \pm 1.96$	$0.62 \pm 0.04$	$0.14 \pm 0.01$
SR- $\tau_h\tau_h$ - $M_{T2,0}$ - $M_T,2$ - $N_j,0$	$0.51 \pm 0.04$	$2.85 \pm 0.25$	$2.61 \pm 1.79$	$0.38 \pm 0.05$	-	$6.35 \pm 1.81$	$21.82 \pm 2.11$	$1.33 \pm 0.06$	$0.40 \pm 0.02$
SR- $\tau_h\tau_h$ - $M_{T2,0}$ - $M_T,2$ - $N_j,1$	$9.69 \pm 6.28$	$0.86 \pm 0.10$	$26.11 \pm 5.56$	$0.86 \pm 0.03$	$2.77 \pm 1.54$	$40.28 \pm 8.53$	$15.32 \pm 1.76$	$1.11 \pm 0.05$	$0.35 \pm 0.02$
SR- $\tau_h\tau_h$ - $M_{T2,1}$ - $M_T,0$ - $N_j,0$	$32.60 \pm 11.17$	$6.15 \pm 0.53$	$16.36 \pm 4.32$	$2.89 \pm 0.18$	$4.99 \pm 1.85$	$62.98 \pm 12.13$	$83.71 \pm 4.13$	$1.14 \pm 0.05$	$0.19 \pm 0.01$
SR- $\tau_h\tau_h$ - $M_{T2,1}$ - $M_T,0$ - $N_j,1$	$2.03 \pm 0.10$	$1.34 \pm 0.25$	$66.90 \pm 8.74$	$18.17 \pm 0.33$	$1.44 \pm 1.62$	$89.89 \pm 8.90$	$40.00 \pm 2.84$	$0.74 \pm 0.04$	$0.13 \pm 0.01$
SR- $\tau_h\tau_h$ - $M_{T2,1}$ - $M_T,1$ - $N_j,0$	$19.59 \pm 9.63$	$1.14 \pm 0.20$	$3.96 \pm 2.19$	$1.52 \pm 0.11$	$0.56 \pm 0.89$	$26.78 \pm 9.92$	$25.73 \pm 2.29$	$1.26 \pm 0.05$	$0.25 \pm 0.01$
SR- $\tau_h\tau_h$ - $M_{T2,1}$ - $M_T,1$ - $N_j,1$	$0.47 \pm 0.05$	$0.56 \pm 0.44$	$13.32 \pm 3.91$	$5.19 \pm 0.15$	$2.70 \pm 1.36$	$22.24 \pm 4.17$	$12.93 \pm 1.62$	$0.91 \pm 0.05$	$0.16 \pm 0.01$
SR- $\tau_h\tau_h$ - $M_{T2,1}$ - $M_T,2$ - $N_j,0$	$9.08 \pm 6.28$	$0.28 \pm 0.06$	$0.05 \pm 0.01$	$0.68 \pm 0.07$	$2.11 \pm 1.03$	$12.20 \pm 6.37$	$10.83 \pm 1.48$	$2.13 \pm 0.07$	$0.57 \pm 0.02$
SR- $\tau_h\tau_h$ - $M_{T2,1}$ - $M_T,2$ - $N_j,1$	$3.79 \pm 2.51$	$0.06 \pm 0.02$	$5.65 \pm 2.53$	$1.37 \pm 0.06$	$1.18 \pm 1.03$	$12.05 \pm 3.71$	$9.03 \pm 1.35$	$1.78 \pm 0.06$	$0.57 \pm 0.02$
SR- $\tau_h\tau_h$ - $M_{T2,2}$ - $M_T,1$ - $N_j,0$	$0.17 \pm 0.03$	$0.32 \pm 0.10$	$0.05 \pm 0.01$	$0.55 \pm 0.08$	$1.03 \pm 0.73$	$2.12 \pm 0.74$	$2.69 \pm 0.73$	$0.63 \pm 0.04$	$0.11 \pm 0.01$
SR- $\tau_h\tau_h$ - $M_{T2,2}$ - $M_T,1$ - $N_j,1$	$3.73 \pm 2.51$	$0.22 \pm 0.07$	$8.71 \pm 3.13$	$1.84 \pm 0.11$	$1.06 \pm 0.73$	$15.57 \pm 4.08$	$1.71 \pm 0.58$	$0.39 \pm 0.03$	$0.07 \pm 0.01$
SR- $\tau_h\tau_h$ - $M_{T2,2}$ - $M_T,2$ - $N_j,0$	$0.23 \pm 0.04$	$0.17 \pm 0.05$	$0.04 \pm 0.01$	$0.73 \pm 0.07$	$0.02 \pm 0.73$	$1.18 \pm 0.73$	$2.48 \pm 0.71$	$2.95 \pm 0.08$	$0.80 \pm 0.02$
SR- $\tau_h\tau_h$ - $M_{T2,2}$ - $M_T,2$ - $N_j,1$	$0.19 \pm 0.02$	$0.04 \pm 0.01$	$5.59 \pm 2.53$	$1.51 \pm 0.07$	$0.06 \pm 0.73$	$7.38 \pm 2.64$	$1.52 \pm 0.54$	$2.19 \pm 0.07$	$0.67 \pm 0.02$
SR- $\tau_h\tau_c dh$ - $M_{T2,3}$ - $M_T,2$ - $N_j,0$	$53.02 \pm 30.56$	$0.03 \pm 0.02$	$0.02 \pm 0.00$	$0.27 \pm 0.03$	$0.03 \pm 0.02$	$53.36 \pm 30.56$	$0.24 \pm 0.20$	$3.61 \pm 0.09$	$1.74 \pm 0.04$
SR- $\tau_h\tau_h$ - $M_{T2,3}$ - $M_T,2$ - $N_j,1$	$0.06 \pm 0.01$	$0.02 \pm 0.01$	$2.52 \pm 1.59$	$0.50 \pm 0.03$	$0.54 \pm 0.51$	$3.66 \pm 1.67$	$0.90 \pm 0.41$	$3.17 \pm 0.09$	$1.72 \pm 0.04$