

Data set	$m_T$	$\sigma$	$Q_H$	$T_H$	$R_H$	$S_H$
$t\bar{t}$ +jets	—	—	$140 \pm 20$	$230 \pm 30$	$16.8 \pm 3.8$	$21.7 \pm 4.8$
Other background	—	—	$21.7 \pm 9.6$	$20.5 \pm 7.0$	$7.4 \pm 4.4$	$3.0 \pm 1.6$
QCD multijet	—	—	$478 \pm 42$	$91 \pm 35$	$125 \pm 12$	$28.4 \pm 9.1$
Total background	—	—	$640 \pm 28$	$342 \pm 23$	$149 \pm 12$	$53.1 \pm 7.7$
Data	—	—	640	345	151	52
tHbq	1.2	142	$6.80 \pm 0.30$	$10.71 \pm 0.41$	$11.6 \pm 0.42$	$20.6 \pm 0.6$ (0.40)
tZbq	1.2	131	$1.56 \pm 0.15$	$1.18 \pm 0.13$	$0.49 \pm 0.08$	$0.73 \pm 0.11$ (0.02)
tHtq	1.2	40.7	$2.32 \pm 0.10$	$3.70 \pm 0.13$	$3.21 \pm 0.12$	$5.63 \pm 0.16$ (0.39)
tZtq	1.2	32.9	$0.47 \pm 0.03$	$0.49 \pm 0.03$	$0.13 \pm 0.01$	$0.14 \pm 0.02$ (0.01)
tHbq	1.8	13.6	$1.08 \pm 0.04$	$1.54 \pm 0.05$	$1.83 \pm 0.05$	$2.83 \pm 0.07$ (0.58)
tZbq	1.8	11.0	$0.12 \pm 0.01$	$0.13 \pm 0.01$	$0.08 \pm 0.01$	$0.07 \pm 0.01$ (0.02)
tHtq	1.8	4.0	$0.33 \pm 0.01$	$0.49 \pm 0.01$	$0.50 \pm 0.01$	$0.76 \pm 0.02$ (0.53)
tZtq	1.8	3.2	$0.11 \pm 0.01$	$0.11 \pm 0.01$	$0.03 \pm 0.01$	$0.04 \pm 0.01$ (0.03)