

Cut	Sum Bg	Signal K-hct	Signal K-hut	Signal ttbar K-hct	Signal ttbar K-hut	T+jets	THq	TT+jets	W+jets
<i>nocuts</i>	18621981702 ± 3144570	21261 ± 21	164242 ± 57	238368 ± 157	249643 ± 114	28105716 ± 16855	17526 ± 6	32322460 ± 7322	18561536000
<i>nlep</i> = 1, <i>lloose</i>	5857580306 ± 1319131	2763 ± 8	21995 ± 20	75551 ± 87	74510 ± 63	3161680 ± 5201	6074 ± 3	9245448 ± 4092	5845167104 ± 3
<i>M^T(lnu)</i> > 50	5572861664 ± 1287025	1832 ± 6	14434 ± 16	49761 ± 71	49665 ± 51	2225416 ± 4415	4043 ± 3	5966350 ± 3300	5564665856 ± 3
<i>N_j</i> = 3	3819007 ± 7451	434 ± 3	2728 ± 7	14052 ± 38	14051 ± 27	205461 ± 1088	1046 ± 1	1868440 ± 1845	1744060 ± 3
<i>nbjets</i> = 3	28423 ± 245	78 ± 1	429 ± 3	1026 ± 10	728 ± 6	813 ± 97	211 ± 1	27103 ± 222	296 ± 3
80 < <i>M_H</i> < 205	26605 ± 234	76 ± 1	414 ± 3	966 ± 10	707 ± 6	644 ± 87	180 ± 1	25558 ± 215	223 ± 3
80 < <i>MT^{top}</i> < 230	24943 ± 224	73 ± 1	389 ± 3	906 ± 10	668 ± 6	491 ± 75	148 ± 1	24107 ± 209	197 ± 3
	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0

Table 1: CutFlow

Cut	Signal K-hct	Signal K-hut	Signal ttbar K-hct	Signal ttbar K-hut	comb (c)	comb (u)
<i>nocuts</i>	0.156	1.204	1.747	1.829	1.903	3.033
<i>nlep = 1, 0loose</i>	0.036	0.287	0.987	0.974	1.023	1.261
$M^T(lmu) > 50$	0.025	0.193	0.667	0.665	0.691	0.859
<i>Nj = 3</i>	0.222	1.396	7.178	7.177	7.399	8.568
<i>njets = 3</i>	0.460	2.523	5.977	4.266	6.421	6.727
$80 < MH < 205$	0.465	2.516	5.816	4.277	6.265	6.729
$80 < MT_{top} < 230$	0.459	2.443	5.634	4.173	6.077	6.553
	-nan	-nan	-nan	-nan	-nan	-nan
	-nan	-nan	-nan	-nan	-nan	-nan
	-nan	-nan	-nan	-nan	-nan	-nan
	-nan	-nan	-nan	-nan	-nan	-nan
	-nan	-nan	-nan	-nan	-nan	-nan
	-nan	-nan	-nan	-nan	-nan	-nan
	-nan	-nan	-nan	-nan	-nan	-nan
	-nan	-nan	-nan	-nan	-nan	-nan
	-nan	-nan	-nan	-nan	-nan	-nan
	-nan	-nan	-nan	-nan	-nan	-nan
	-nan	-nan	-nan	-nan	-nan	-nan
	-nan	-nan	-nan	-nan	-nan	-nan
	-nan	-nan	-nan	-nan	-nan	-nan
	-nan	-nan	-nan	-nan	-nan	-nan

Table 2: $S/\sqrt{S+B}$