Cut	Sum Bg	Signal K-hct	Signal K-hut	Signal ttbar K-hct	Signal ttbar K-hut	T+jets	THq	TT+jets	W+je
$nocuts$	18621981702 ± 3144570	21261 ± 21	164242 ± 57	238368 ± 157	249643 ± 114	28105716 ± 16855	17526 ± 6	32322460 ± 7322	18561536000 ±
$nlep = 1, 0loose$	5857580306 ± 1319131	2763 ± 8	21995 ± 20	75551 ± 87	74510 ± 63	3161680 ± 5201	6074 ± 3	9245448 ± 4092	5845167104 ±
$M^T(lnu) > 50$	5572861664 ± 1287025	1832 ± 6	14434 ± 16	49761 ± 71	49665 ± 51	2225416 ± 4415	4043 ± 3	5966350 ± 3300	5564665856 ±
$Nj >= 3$	5262096 ± 7647	575 ± 4	3610 ± 8	24111 ± 49	24046 ± 36	255344 ± 1188	1664 ± 2	3255912 ± 2437	1749176 ±
$nbjets = 3$	77688 ± 389	112 ± 2	628 ± 3	2376 ± 15	1827 ± 10	1138 ± 113	401 ± 1	75883 ± 371	266 ±
$80 < MH < 205$	70581 ± 368	109 ± 2	601 ± 3	2211 ± 15	1752 ± 10	802 ± 93	337 ± 1	69231 ± 355	210 ±
$80 < MTtop < 230$	64942 ± 352	103 ± 1	560 ± 3	2043 ± 14	1640 ± 9	651 ± 84	270 ± 1	63866 ± 341	154 ±
	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)
$nocuts$	0.156	1.204	1.747	1.829	1.903	3.033
$nlep = 1, 0loose$	0.036	0.287	0.987	0.974	1.023	1.261
$M^T(lnu) > 50$	0.025	0.193	0.667	0.665	0.691	0.859
$Nj >= 3$	0.251	1.573	10.487	10.459	10.737	12.025
$nbjets = 3$	0.402	2.246	8.397	6.478	8.787	8.672
$80 < MH < 205$	0.408	2.254	8.195	6.515	8.591	8.715
$80 < MTtop < 230$	0.403	2.188	7.895	6.356	8.286	8.491
	-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: $S/\sqrt{S+B}$