

Table 1: Table of event counts for lepton analysis with 0 b-tags, in exclusive bins of jet multiplicity, and three inclusive  $S_T$  bins. We apply thresholds of  $S_T = 300$  GeV for  $M_{\bar{q}} = 300$  GeV,  $S_T = 700$  GeV for  $M_{\bar{q}}$  values of 400 and 500 GeV, and  $S_T = 1200$  GeV for  $M_{\bar{q}} \geq 600$  GeV.

		$N_{\text{jets}} = 4$	$N_{\text{jets}} = 5$	$N_{\text{jets}} = 6$	$N_{\text{jets}} \geq 7$
$S_T > 300$ GeV	Observed events	378	96	20	5
	Total background	$432 \pm 70.0$	$114 \pm 19.2$	$25 \pm 5.4$	$9.4 \pm 2.7$
$S_T > 700$ GeV	Observed events	56	28	12	4
	Total background	$73 \pm 11$	$36 \pm 6.0$	$11 \pm 2.4$	$6.0 \pm 1.8$
$S_T > 1200$ GeV	Observed events	5	2	1	1
	Total background	$4.1 \pm 0.7$	$2.9 \pm 0.5$	$1.4 \pm 0.3$	$0.7 \pm 0.2$
	Signal $M_{\bar{q}} = 600$ GeV	$0.9 \pm 0.1$	$1.3 \pm 0.1$	$1.3 \pm 0.1$	$1.4 \pm 0.1$

Table 2: Table of event counts for lepton analysis with  $\geq 2$  b-tags, in exclusive bins of jet multiplicity, and three inclusive  $S_T$  bins. We apply thresholds of  $S_T = 300$  GeV for  $M_{\bar{q}} = 300$  GeV,  $S_T = 700$  GeV for  $M_{\bar{q}}$  values of 400 and 500 GeV, and  $S_T = 1200$  GeV for  $M_{\bar{q}} \geq 600$  GeV.

		$N_{\text{jets}} = 4$	$N_{\text{jets}} = 5$	$N_{\text{jets}} = 6$	$N_{\text{jets}} \geq 7$
$S_T > 300$ GeV	Observed events	896	275	61	26
	Total background	$847 \pm 183$	$254 \pm 123$	$64 \pm 43$	$18 \pm 20$
$S_T > 700$ GeV	Observed events	128	72	31	20
	Total background	$129 \pm 22$	$81 \pm 42$	$35 \pm 16$	$14 \pm 18$
$S_T > 1200$ GeV	Observed events	11	1	5	1
	Total background	$5.5 \pm 1.8$	$4.6 \pm 6.3$	$3.5 \pm 4.9$	$2.5 \pm 4.6$