

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 ± 70	114 ± 19	25 ± 5	9.4 ± 2.7
$S_T > 700$ GeV	Observed events	56	28	12	4
	Total background	73 ± 11	36 ± 6	11 ± 2	6.0 ± 1.8
$S_T > 1200$ GeV	Observed events	5	2	1	1
	Total background	4.1 ± 0.7	2.9 ± 0.5	1.4 ± 0.3	0.7 ± 0.2
	Signal $M_{\bar{q}} = 600$ GeV	0.9 ± 0.1	1.3 ± 0.1	1.3 ± 0.1	1.4 ± 0.1

Table 2: Table of event counts for lepton analysis in ≥ 2 b-tag control sample, in exclusive bins of jet multiplicity, and three inclusive S_T bins.

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