

atlas_1407_0608 CutFlow

ATLAS
atlas_1407_0608

Monojet
Energy: 8 TeV
Luminosity: 20.1 fb⁻¹
Montecarlo: Madgraph

Signal region	Monojetlike Selection	
Process	$\tilde{t} \rightarrow c\tilde{\chi}_1^0$	
Point	$m(\tilde{t}) = 200$ GeV, $m(\tilde{\chi}_1^0) = 125$ GeV	
Source	ATLAS	CheckMATE
Generated events	181902.0	169662.0
All	181902 ± 0	168000 ± 0
Preselected($E_T^{miss} \geq 100$ GeV)	97217 ± 210	111000 ± 190
Trigger	82686 ± 210	94300 ± 200
Lepton Veto	81855 ± 210	94100 ± 200
At least 3 jets	59315 ± 200	72600 ± 200
$d\phi(\text{jets}, E_T^{miss}) \geq 0.4$	54295 ± 200	67700 ± 200
jet ₁ $p_T \geq 150$ GeV	14220 ± 110	15700 ± 120
$E_T^{miss} \geq 150$ GeV	9468 ± 95	10200 ± 97
jet ₁ $p_T \geq 280$ GeV	1627 ± 40	1990 ± 44
$E_T^{miss} \geq 220$ GeV	1276 ± 36	1450 ± 38
jet ₂ $p_T \geq 340$ GeV	721 ± 27	898 ± 30
$E_T^{miss} \geq 340$ GeV	282 ± 17	316 ± 18
jet ₃ $p_T \geq 450$ GeV	169 ± 13	263 ± 16
$E_T^{miss} \geq 450$ GeV	64 ± 8	61.4 ± 7.8

Table 1: Cutflow validation for atlas_1407_0608. Shown are number of events passing each cut normalised to a luminosity of 20.1 fb⁻¹. Final error is Monte-Carlo events only.

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Process	$\tilde{t} \rightarrow c\tilde{\chi}_1^0$	
Point	$m(\tilde{t}) = 200$ GeV, $m(\tilde{\chi}_1^0) = 195$ GeV	
Source	ATLAS	CheckMATE
Generated events	103191.0	210706.0
All	103191 ± 0	89900 ± 0
Preselected($E_T^{miss} \geq 100$ GeV)	64652 ± 160	66300 ± 86
Trigger	57948 ± 160	59500 ± 93
Lepton Veto	57455 ± 160	59500 ± 93
At least 3 jets	52491 ± 160	55500 ± 95
$d\phi(\text{jets}, E_T^{miss}) \geq 0.4$	49216 ± 160	53700 ± 96
jet ₁ $p_T \geq 150$ GeV	20910 ± 130	23600 ± 86
$E_T^{miss} \geq 150$ GeV	18297 ± 120	19900 ± 81
jet ₁ $p_T \geq 280$ GeV	3854 ± 61	4750 ± 44
$E_T^{miss} \geq 220$ GeV	3722 ± 60	4520 ± 43
jet ₂ $p_T \geq 340$ GeV	1897 ± 43	2450 ± 32
$E_T^{miss} \geq 340$ GeV	1518 ± 39	1700 ± 27
jet ₃ $p_T \geq 450$ GeV	527 ± 23	805 ± 18
$E_T^{miss} \geq 450$ GeV	415 ± 20	486 ± 14

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Signal region	Monojetlike Selection	
Process	$\tilde{t} \rightarrow c\tilde{\chi}_1^0$	
Point	$m(\tilde{t}) = 250$ GeV, $m(\tilde{\chi}_1^0) = 245$ GeV	
Source	ATLAS	CheckMATE
Generated events	48103.0	108923.0
All	48103 ± 0	30800 ± 0
Preselected($E_T^{miss} \geq 100$ GeV)	23416 ± 110	23800 ± 39
Trigger	21149 ± 110	21600 ± 43
Lepton Veto	20986 ± 110	21600 ± 43
At least 3 jets	18985 ± 110	20000 ± 44
$d\phi(\text{jets}, E_T^{miss}) \geq 0.4$	17843 ± 110	19200 ± 45
jet ₁ $p_T \geq 150$ GeV	8183 ± 82	9190 ± 43
$E_T^{miss} \geq 150$ GeV	7290 ± 79	8010 ± 41
jet ₁ $p_T \geq 280$ GeV	1748 ± 41	2140 ± 24
$E_T^{miss} \geq 220$ GeV	1694 ± 40	2040 ± 23
jet ₂ $p_T \geq 340$ GeV	882 ± 29	1140 ± 18
$E_T^{miss} \geq 340$ GeV	736 ± 27	817 ± 15
jet ₃ $p_T \geq 450$ GeV	279 ± 17	392 ± 10
$E_T^{miss} \geq 450$ GeV	230 ± 15	256 ± 8.5

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