

atlas_1411_1559 CutFlow

ATLAS

atlas.1411_1559

Monophoton

Energy: 8 TeV

Luminosity: 20.3 fb⁻¹

Montecarlo: $m(\tilde{q}) = 200$ GeV and $m(\tilde{\chi}_1^0) = 195$ GeV

Signal region	Monophotonlike Selection	
	$qq \rightarrow \tilde{q}\tilde{q}\gamma$	
Process	$m(\tilde{q}) = 200$ GeV, $m(\tilde{\chi}_1^0) = 195$ GeV	
Point	ATLAS	CheckMATE
Source	ATLAS	CheckMATE
Generated events	9989.0	9989.0
All	9989 ± 0	9989 ± 0
Preselected($E_T^{miss} \geq 80$ GeV)	8582 ± 93	8759 ± 94
$E_T^{miss} \geq 150$ GeV	4131 ± 64	4702 ± 69
$N_\gamma \geq 1$ with $p_T^{miss} \geq 125$ GeV and $\eta < 2.37$	2645 ± 51	2889 ± 54
Leading photon tight with $\eta < 1.37$	2068 ± 45	2278 ± 48
The leading photon is isolated	1898 ± 44	2152 ± 46
$\Delta\Phi(\gamma^{leading}, E_T^{miss}) > 0.4$	1887 ± 43	2136 ± 46
Jet veto: $N_{jet} \leq 1$ and $\Delta\Phi(jet, E_T^{miss}) > 0.4$	1219 ± 34	1521 ± 39
Lepton veto	1188 ± 34	1438 ± 38

Table 1: Cutflow validation for atlas_1411_1559. Final error is Monte-Carlo events only.