

Reference Analysis 4 Jet+Met+Muon

Total Event Number: 10000

Muon cutflow	=1	>=2
Number of Candidates	2395	3608
has innerTrack	2381	3545
Number of innerTrack hits	>= 11	2538
eta	<= 2.1	2627
is combined muon		3096
pt	>= 10	2378
GlobalMuonPromptTight		2290
globalTrack fit chi2/ndof	< 10	2290
d0 (from primary vertex)	< 0.2 cm	2285
Tracker Isolation	< 6.0 GeV	1488
HCAL Isolation	< 6.0 GeV	1454
ECAL Isolation	< 6.0 GeV	1415

6003
5926
5810
5545
4330
2944
...

Selection cutflow

exactly one good muon 1415

Event cutflow

Electron cutflow	≥1
Number of Candidates	1089
has innerTrack	1089
eta	<= 2.5
pt	>= 20 GeV
d0 (from primary vertex)	< 0.2 cm
Combined Relative isol.	<= 0.1
Electron Id e.g.: 'eidRobustTight'	93

zero electrons 1322

≥ 3 jets 737
MET > 100 452

Exactly one good muon,
zero electrons,
≥ 3 jets,
MET > 100



Event selection in RA4 (Jet+MET+Electron)

	LM0		LM1		W+Jets	
	100	100	100	100	100	100
electron trigger	54,08	54,1	47,0	47,0	21,53	21,5
no good muons	48,62	48,6	43,03	43,0	21,31	21,3
exactly one electron	8,09	8,10	6,7	6,7	14,23	14,3
≥ 3 jets	4,72	4,67	3,49	3,44	0,03	0,02
MET > 100	3,11	3,07	3,12	3,08	0,01	0,00
	HU	CU	HU	CU	HU	CU

	Z+jets		TTbar	
	100	100	100	100
electron trigger	31,5	31,5	57,02	57,1
no good muons	30,81	30,8	50,75	50,8
exactly one electron	12,92	12,9	11,53	11,6
≥ 3 jets	0,04	0,03	3,92	3,86
MET > 100	0,00	0,00	0,73	0,71