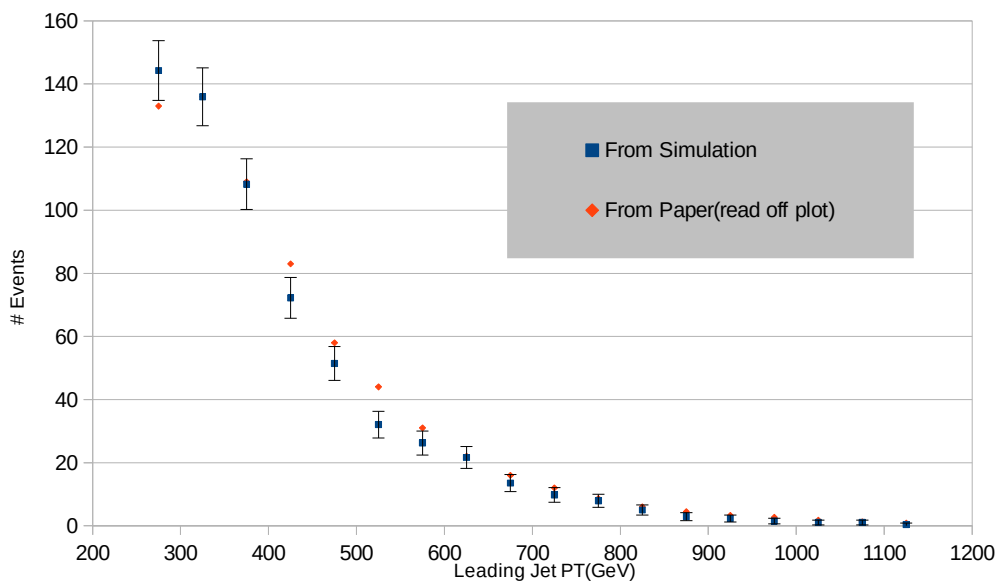
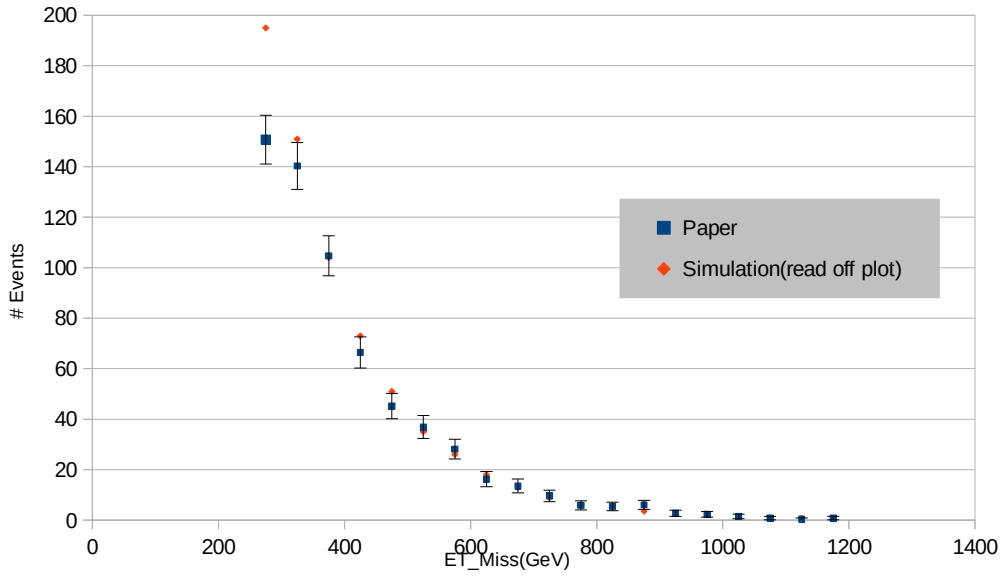


Validation of the Analysis Atlas\_1604\_07773

ET Miss GeV	Figure 3 (a) From Simulation	Signal Region Pt1>250 GeV Error	Etmiss>250 GeV From Paper(read off plot)
275	144.279	9.4602871626	133
325	135.952	9.1473523235	136
375	108.262	8.0554422028	109
425	72.2438	6.4645037189	83
475	51.4243	5.3967267126	58
525	32.0621	4.2187707363	44
575	26.2326	3.8043611089	31
625	21.6523	3.4479680596	22
675	13.5327	2.7141246342	16
725	9.78518	2.3033064235	12
775	7.91142	2.0689885779	8.6
825	4.99669	1.6416910398	6
875	2.91473	1.252454338	4.5
925	2.29015	1.1098089981	3.3
975	1.45737	0.8849235577	2.7
1025	1.04098	0.7477290508	1.8
1075	1.04098	0.7477290508	1.3
1125	0.416391	0.4727450289	0.8



Leading Jet PT GeV (bins +/- 25 GeV)	Figure 3 (b) Paper	Signal Region Pt1>250 GeV Etmis>250 GeV Error	Simulation(read off plot)
275	150.733	9.6987455879	195
325	140.324	9.3124271786	151
375	104.722	7.9090434322	104
425	66.4143	6.1800303351	73
475	45.1784	5.042151839	51
525	36.8506	4.5341694612	35
575	28.1064	3.941773907	26
625	16.2392	2.9774619314	18
675	13.5327	2.7141246342	13
725	9.57699	2.2784178682	8.9
775	5.82947	1.7740238297	6.2
825	5.41308	1.7091092068	5
875	6.03767	1.8056278536	3.5
925	2.70654	1.2067606854	2.5
975	2.29015	1.1098089981	2.1
1025	1.45737	0.8849235577	1.5
1075	0.832781	0.6687126775	0.92
1125	0.416391	0.4727450289	0.7
1175	0.832781	0.6687126775	0.66

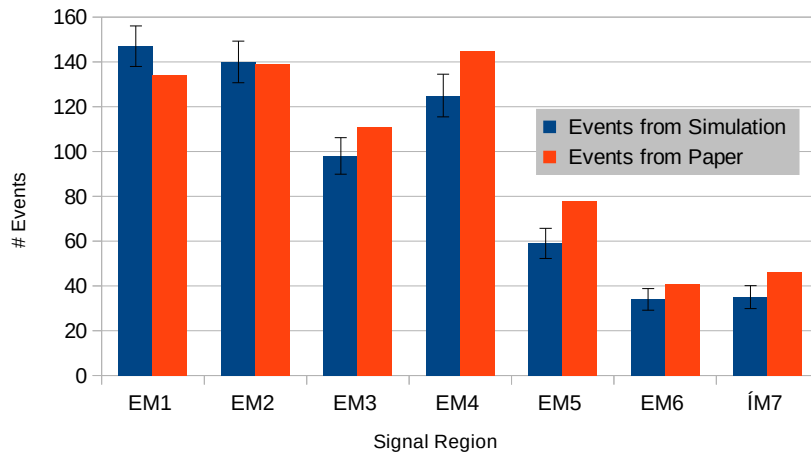


Cutflow (Table 14) This is just for reference. The Trigger is not implemented because it's fully efficient at  $ET_{miss} > 250$  GeV

	Events from Simulation	Error	Events from Paper
All	4291	114.0140566969	4245
Trigger	-	#VALUE!	3450
Event Cleaning	-	#VALUE!	3421
Vertex	4291	114.0140566969	3450
NoLep	4290	113.9898388732	3418
SubLeadingJetCut	4065	108.5395316561	3180
dPhi	3756	101.0496949599	3015
LeadingJetQuality	-	#VALUE!	2842
LeadingJetCut	775	27.6535384402	761
MeT	637	24.0307837418	693

Surviving Events In Exclusive Signal Regions

	Events from Simulation	Errors	Events from Paper
EM1	147	9.073075524	134
EM2	140	9.2626205318	139
EM3	98	8.1674855083	111
EM4	125	9.487097053	145
EM5	59	6.7364944248	78
EM6	34	4.7929585008	41
EM7	35	5.0899500919	46



Note: This analysis is specific for very low mass gaps, therefore the event generation is very hard to get exactly right. I am aware that for large Et our results are consistently too low. But we decided that the agreement is good enough. If anyone wants to improve this he is welcome to.