	inclusive	boosted	t-tbar-2muons background				t-tbar-j bkg
			Bkg_1	Bkg_2	Bkg_3	Bkg_4	
MadGraph generation		Ihapdf id 303400 (NNPDF NLO) pT > 20 for alp pT > 40 for top MT=172 top mass	Ihapdf id 303400 (NNFDF NLO) MT=172 top mass				pT > 40 GeV for jet eta < 5 for jet
			pT > 10 GeV for charged leptons eta < 2.5 for charged leptons DeltaR > 0.4 between leptons	pT > 5.0 for charged leptons eta < 2.5 for charged leptons DeltaR > 0.4 between leptons	pT > 5.0 for charged leptons eta < 3.5 for charged leptons DeltaR > 0.2 between leptons	pT > 5.0 for charged leptons eta < 3.5 for charged leptons DeltaR > 0.2 between leptons	lhapdf id 303400 (NNPDF NLO) MT=172 top mass
# events	100 000	100 000	100 000	100 000	100 000	100 000	50 000
Pythia	-	-	-	-	-	-	On tops and jet Gives the .hepmc file
MadAnalysis	-	-	-	-	-	-	Looking for top ancestors and counts muons and muon pairs Adds event if (top and antitop found) and number of muons>=2 In muon_data.txt 1223 rows
Data_Explora tion script reading from file	Reading from .lhe file	Reading from .lhe file	Reading from .lhe file	Reading from .lhe file	Reading from .lhe file	Reading from .lhe file	Reading from muon_data.txt file Checks again if we have 1 t, 1 t~, 1 mu, 1 mu~
# events	100 000	100 000	100 000	100 000	100 000	100 000	948
# expected events	for ma=1GeV: 1.3845e+4	for ma=1GeV: 1.2353e+2	2.5681e+3	2.8248e+3	3.013e+3	3.3144e+3	7.3668e+5
Cross-sections	for ma=1GeV: 0.0923017	for ma=1GeV: 0.0008235391	0.017120891	0.01883237	0.02008674	0.022096	259.029465
integrated luminosity	150 fm-1						