50 GeV (40%)

Gen ctau 1mm: 120683(c1:95841(79.42%[79.42%]),c2:3680(3.05%[3.84%]),c3:2610(2.16%[70.92%]),c4:1150(0.95%[44.06%]))

Reco ctau 1mm: 120683(c1:77197(63.97%[63.97%]),c2:3149(2.61%[4.08%]),c3:2277(1.89%[72.31%]),c4:816(0.68%[35.84%]))

Gen ctau 10mm: 134299(c1:107480(80.03%[80.03%]),c2:4760(3.54%[4.43%]),c3:3369(2.51%[70.78%]),c4:1463(1.09%[43.43%]))

Reco ctau 10mm: 134299(c1:87266(64.98%[64.98%]),c2:4110(3.06%[4.71%]),c3:3024(2.25%[73.58%]),c4:1105(0.82%[36.54%]))

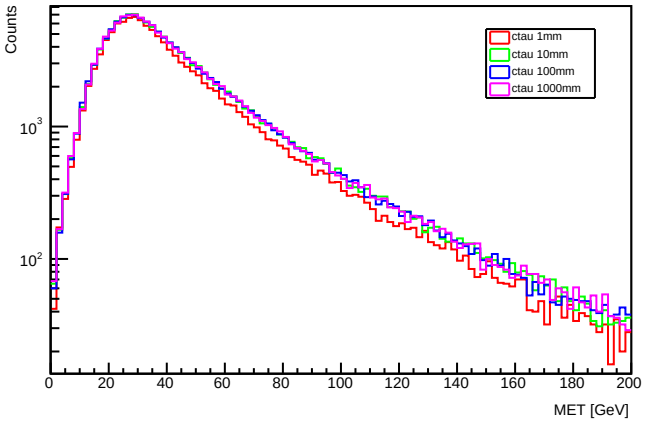
Gen ctau 100mm: 134709(c1:108084(80.24%[80.24%]),c2:4734(3.51%[4.38%]),c3:3353(2.49%[70.83%]),c4:1437(1.07%[42.86%]))

Reco ctau 100mm: 134709(c1:87779(65.16%[65.16%]),c2:4222(3.13%[4.81%]),c3:3054(2.27%[72.34%]),c4:1075(0.80%[35.20%]))

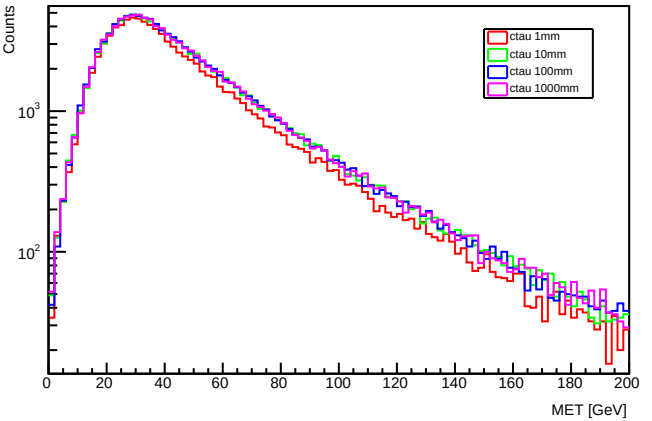
Gen ctau 1000mm: 134531(c1:107567(79.96%[79.96%]),c2:4791(3.56%[4.45%]),c3:3387(2.52%[70.70%]),c4:1326(0.99%[39.15%]))

Reco ctau 1000mm: 134531(c1:87546(65.07%[65.07%]),c2:4994(3.71%[5.70%]),c3:3415(2.54%[68.38%]),c4:1062(0.79%[31.10%]))

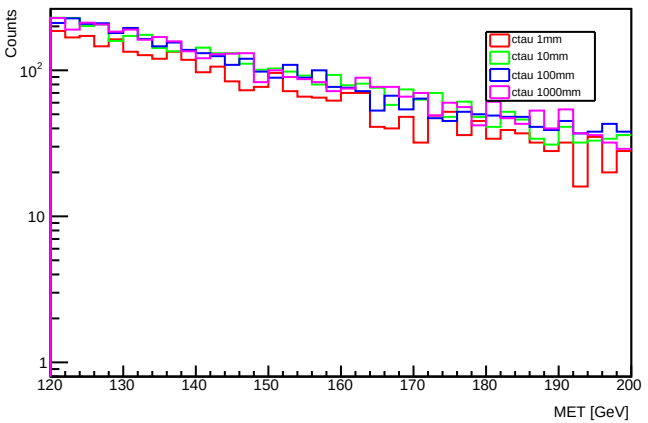
gen leading MET: no cuts



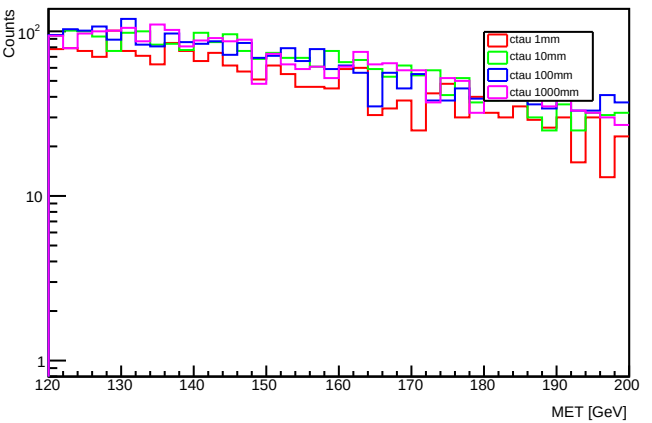
gen leading MET: n_jet >=1, j1pt > 30 GeV



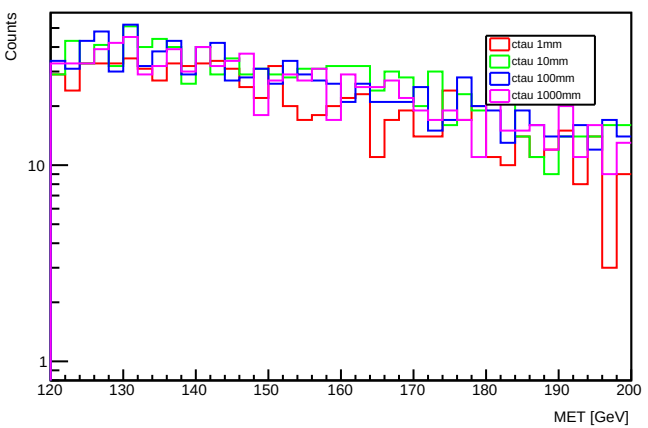
gen leading MET: MET > 120 GeV



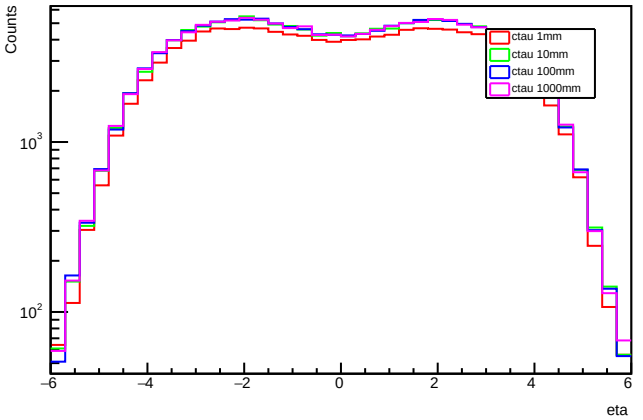
gen leading MET: j1pt >120, at most 2 jets w/ pt >30 GeV



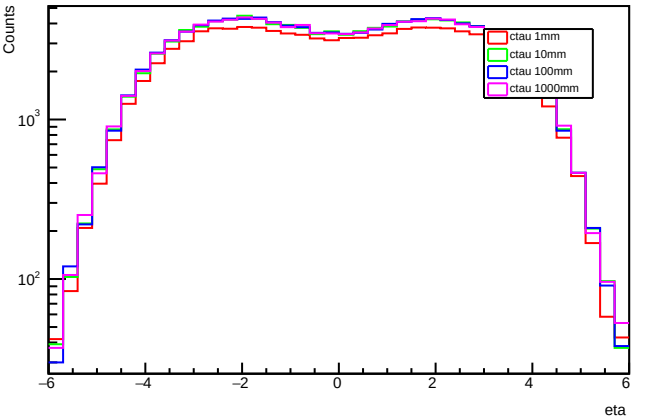
gen leading MET: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



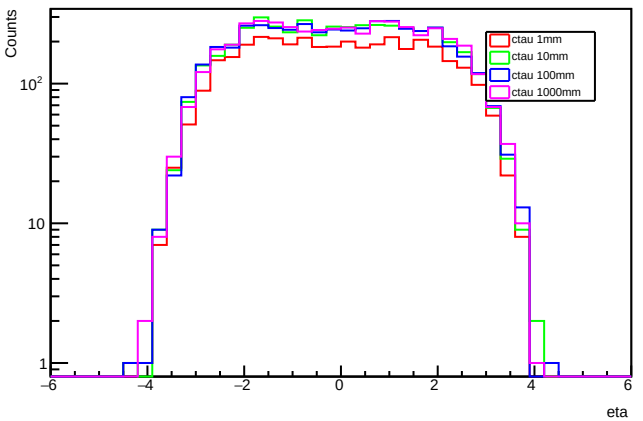
gen leading Met eta: no cuts



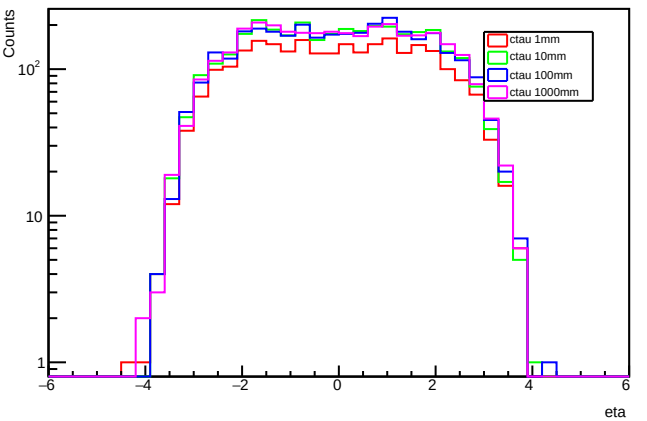
gen leading Met eta: n_jet >=1, j1pt > 30 GeV



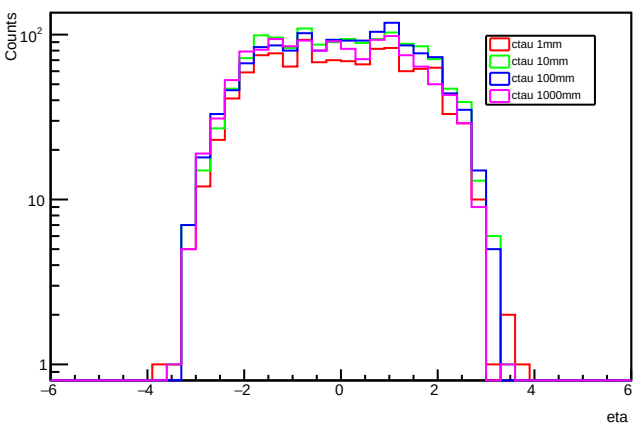
gen leading Met eta: MET > 120 GeV



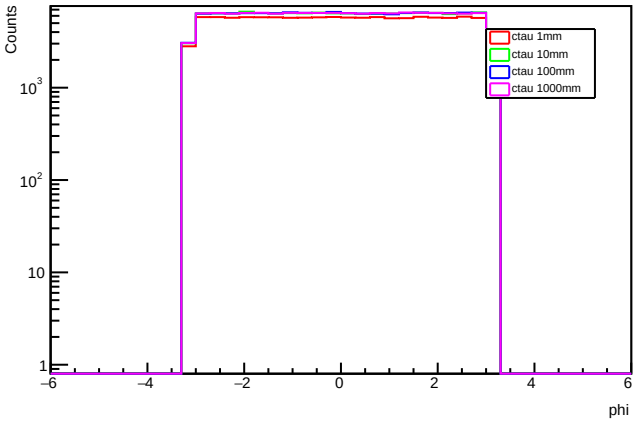
gen leading Met eta: j1pt >120, at most 2 jets w/ pt >30 GeV



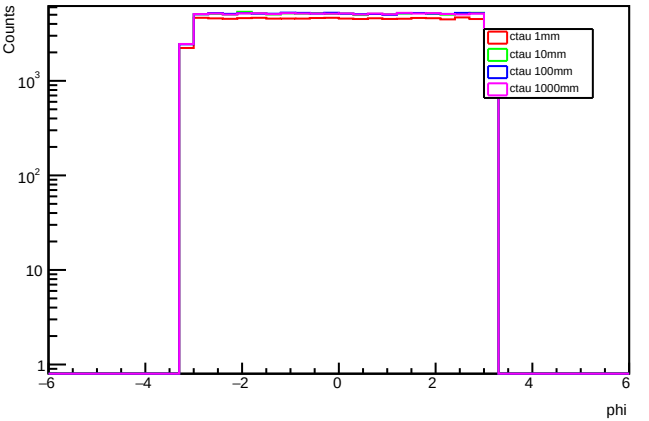
gen leading Met eta: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



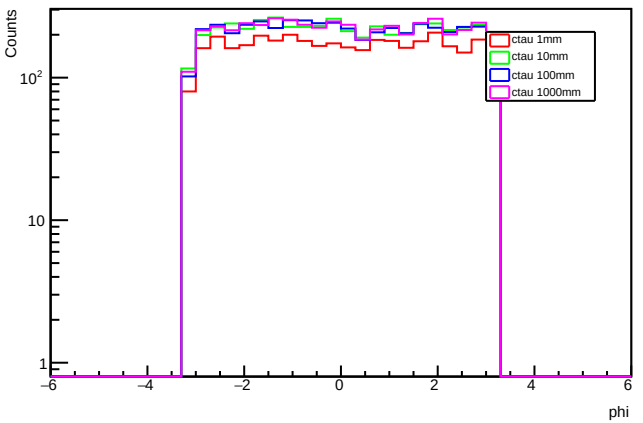
gen leading Met phi: no cuts



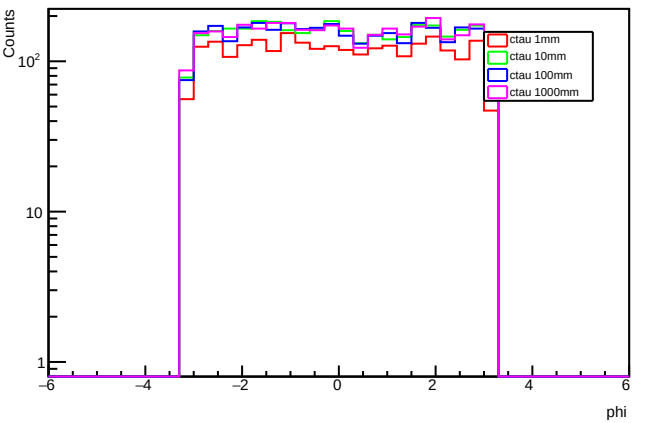
gen leading Met phi: n_jet >=1, j1pt > 30 GeV



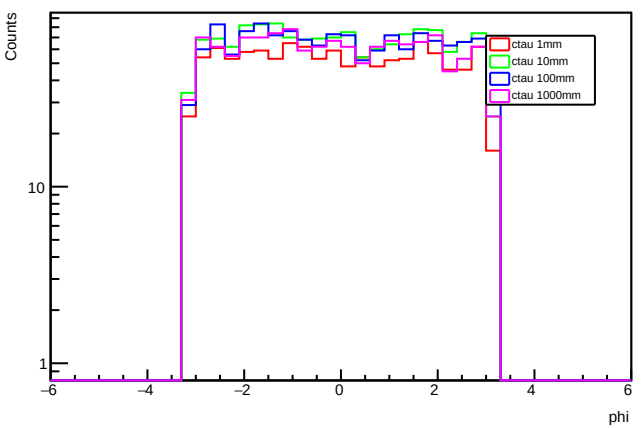
gen leading Met phi: MET > 120 GeV



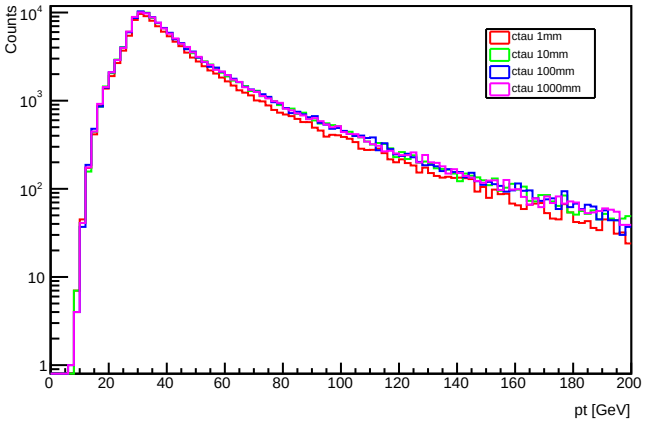
gen leading Met phi: j1pt >120, at most 2 jets w/ pt >30 GeV



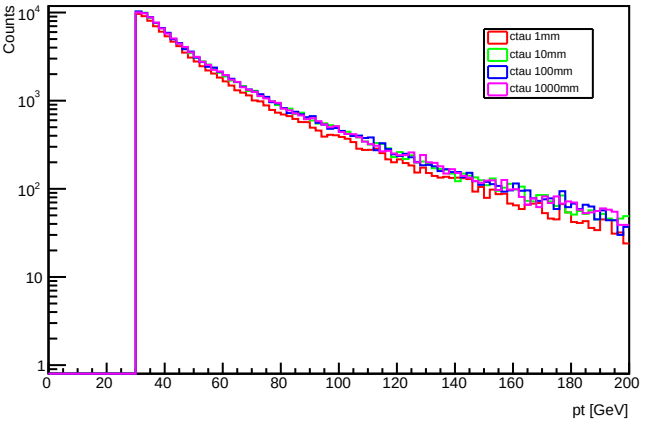
gen leading Met phi: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



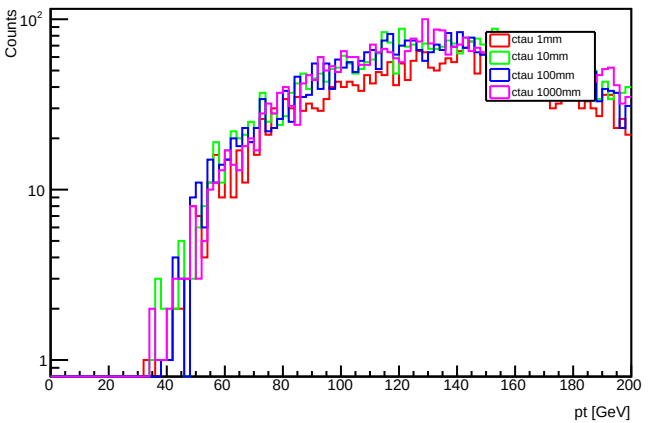
gen leading Jet pt: no cuts



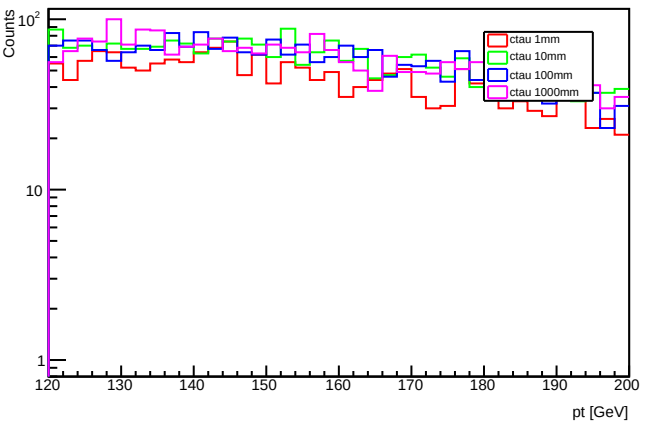
gen leading Jet pt: n_jet >=1, j1pt > 30 GeV



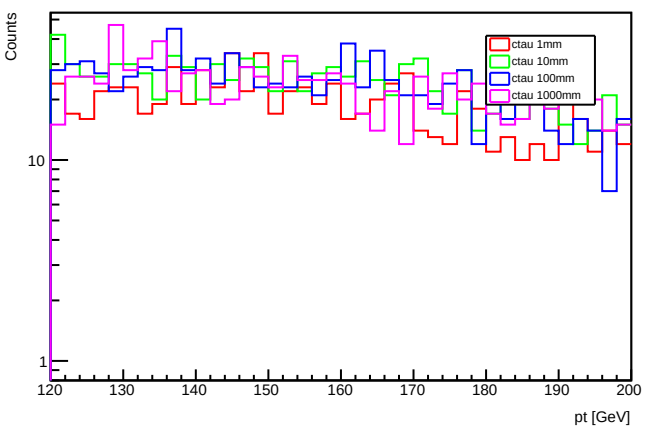
gen leading Jet pt: MET > 120 GeV



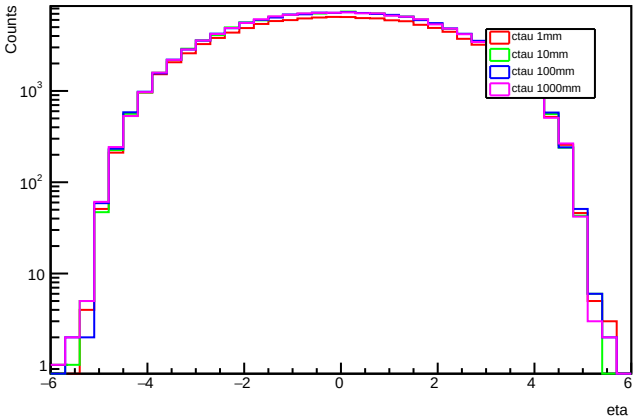
gen leading Jet pt: j1pt >120, at most 2 jets w/ pt >30 GeV



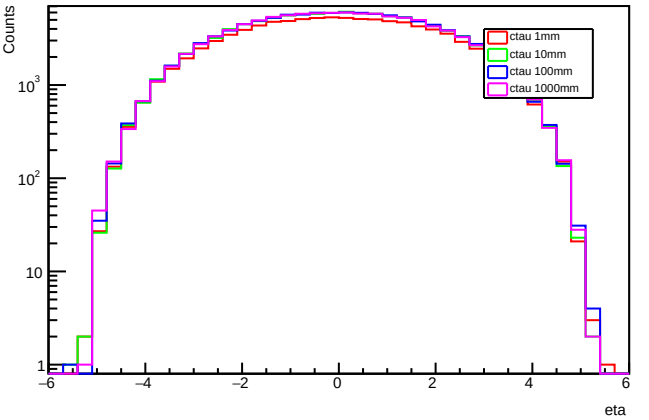
gen leading Jet pt: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



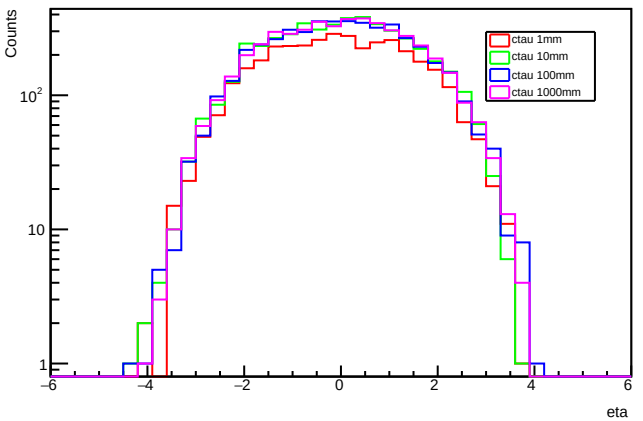
gen leading Jet eta: no cuts



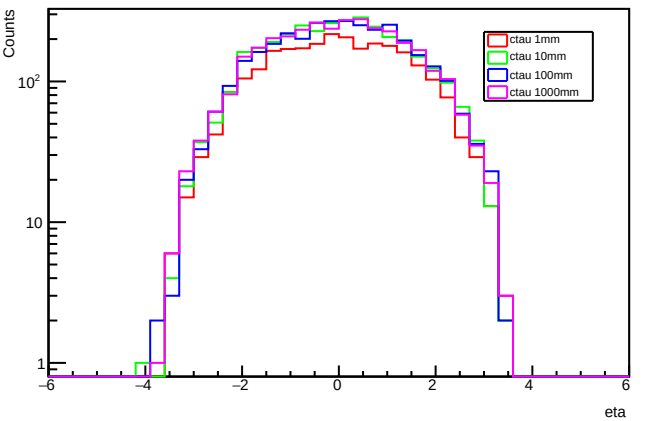
gen leading Jet eta: n_jet >=1, j1pt > 30 GeV



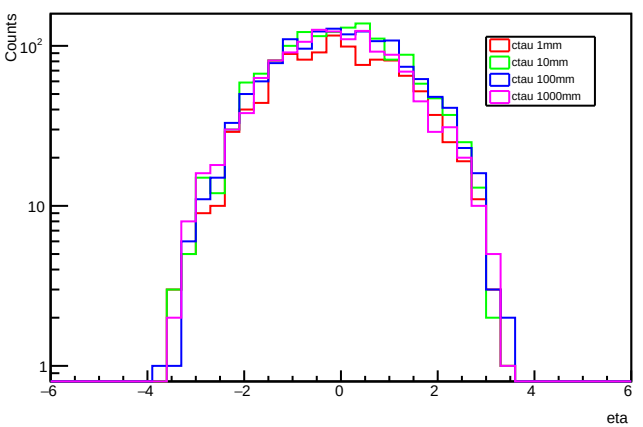
gen leading Jet eta: MET > 120 GeV



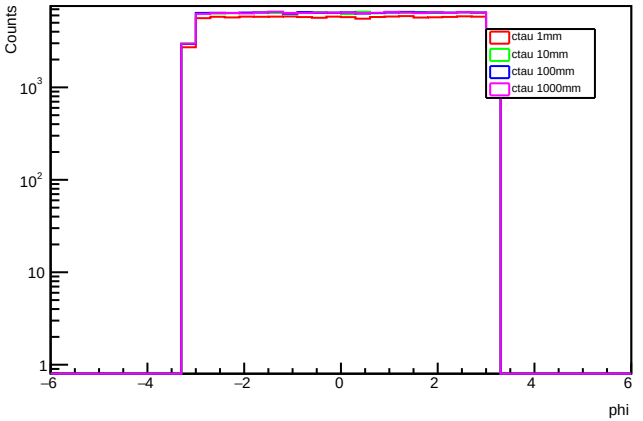
gen leading Jet eta: j1pt >120, at most 2 jets w/ pt >30 GeV



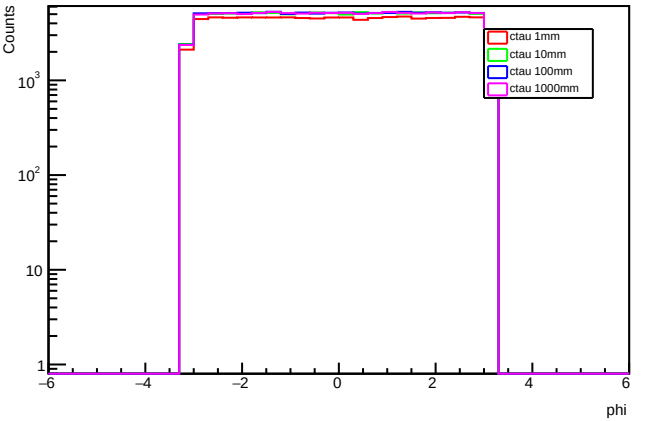
gen leading Jet eta: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



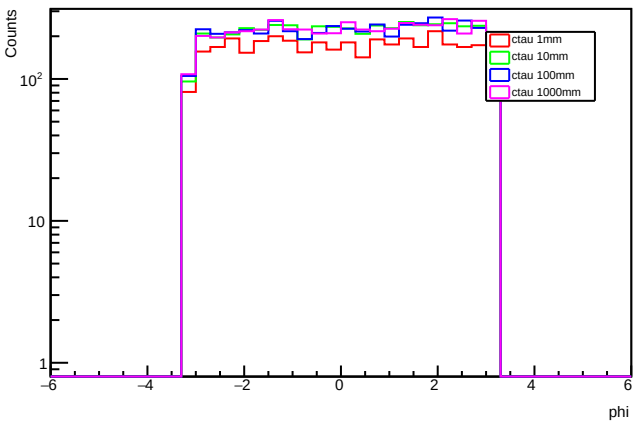
gen leading Jet phi: no cuts



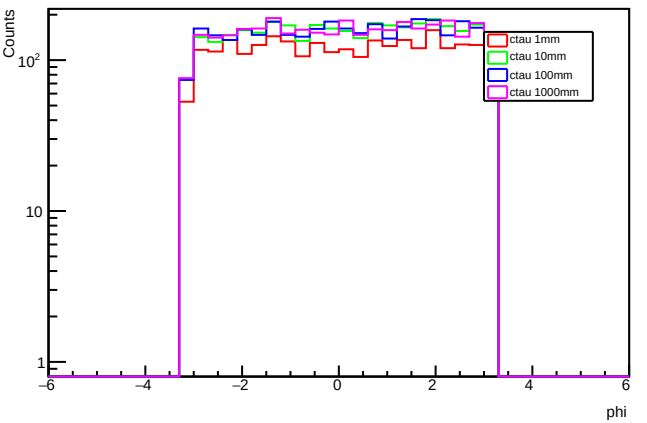
gen leading Jet phi: n_jet >=1, j1pt > 30 GeV



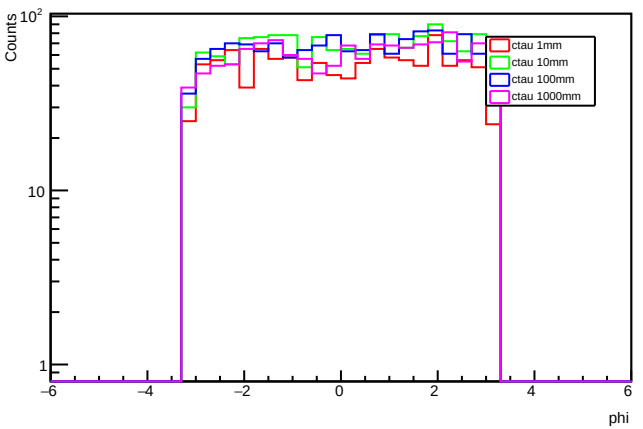
gen leading Jet phi: MET > 120 GeV



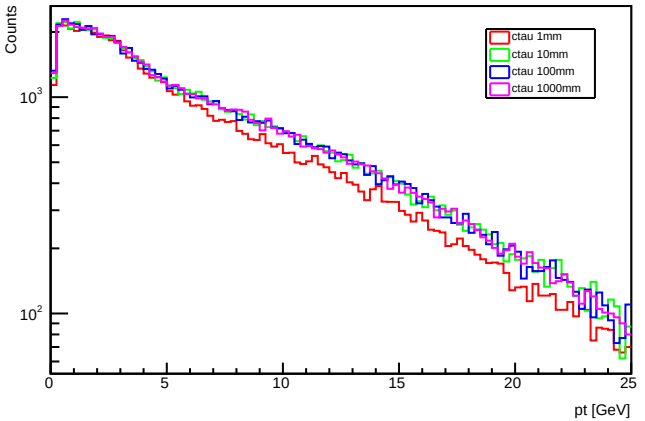
gen leading Jet phi: j1pt >120, at most 2 jets w/ pt >30 GeV



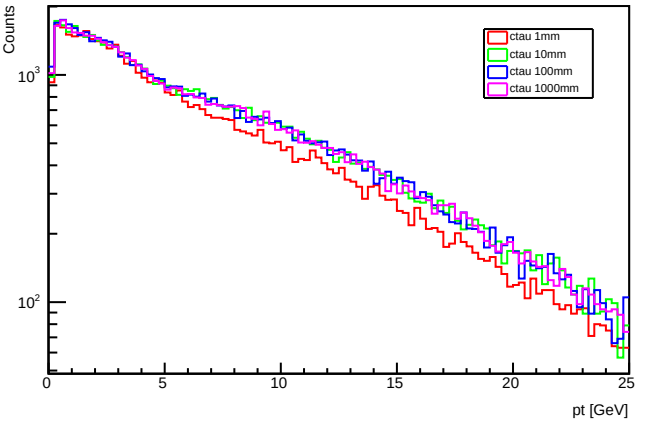
gen leading Jet phi: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



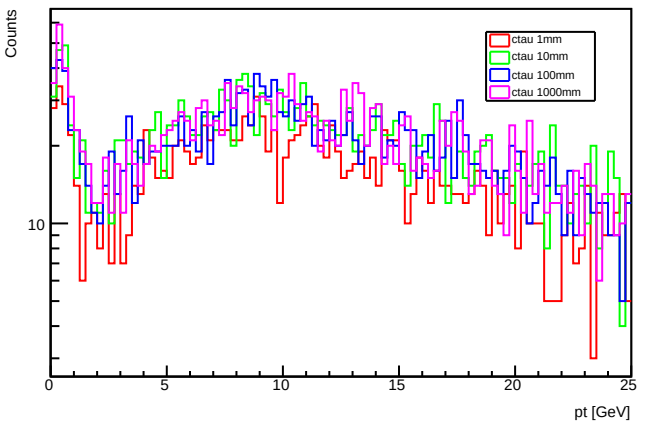
gen leading Mu pt: no cuts



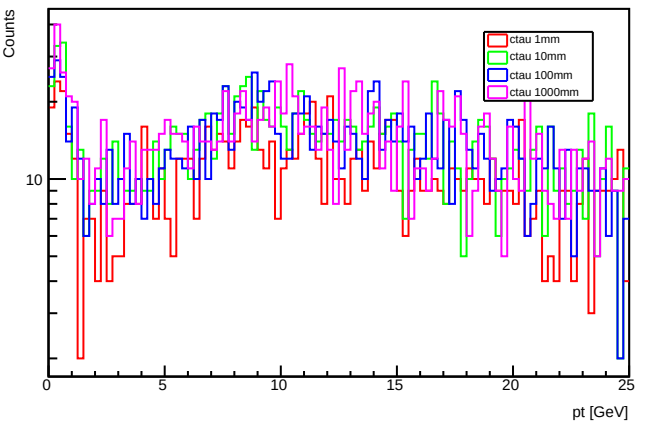
gen leading Mu pt: n_jet >=1, j1pt > 30 GeV



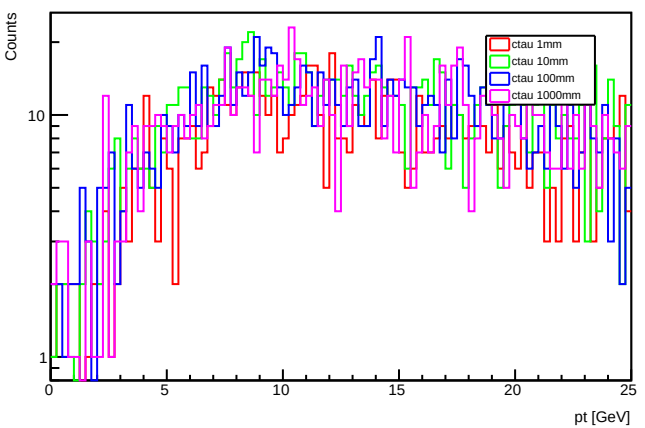
gen leading Mu pt: MET > 120 GeV



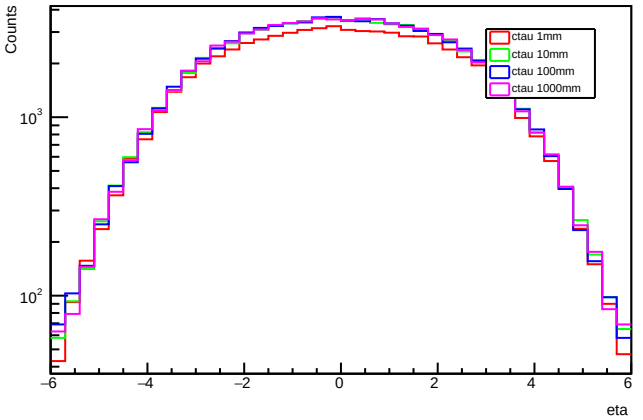
gen leading Mu pt: j1pt >120, at most 2 jets w/ pt >30 GeV



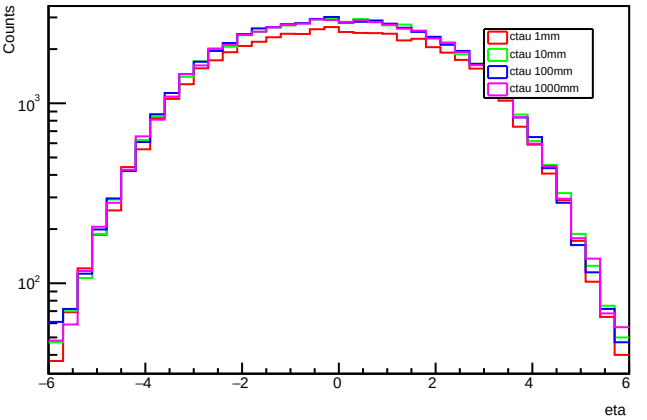
gen leading Mu pt: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



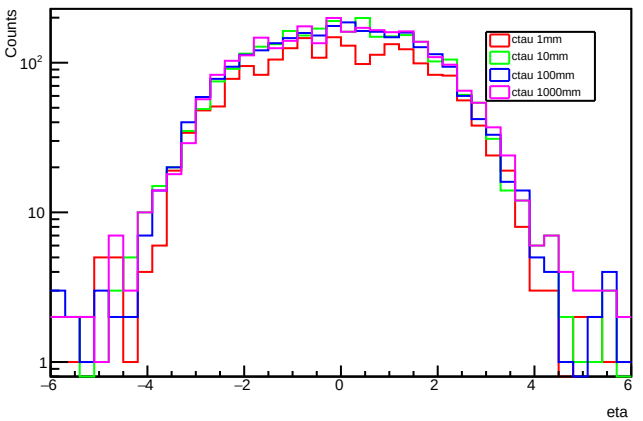
gen leading Mu eta: no cuts



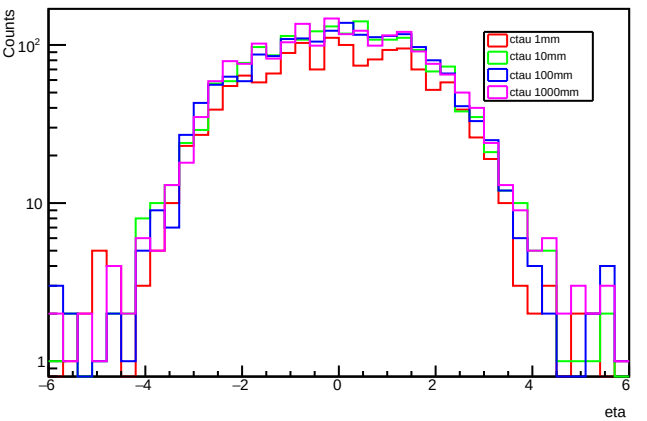
gen leading Mu eta: n_jet >=1, j1pt > 30 GeV



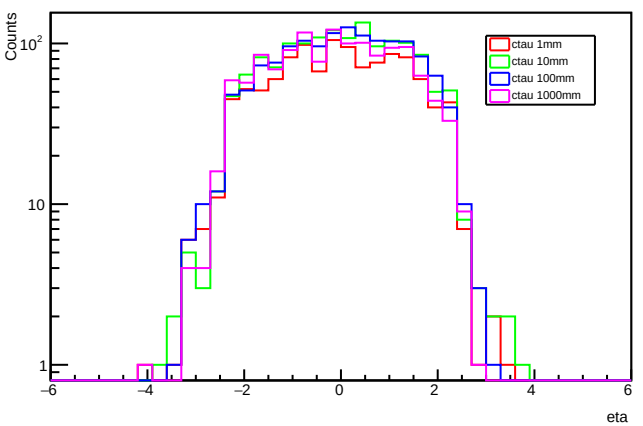
gen leading Mu eta: MET > 120 GeV



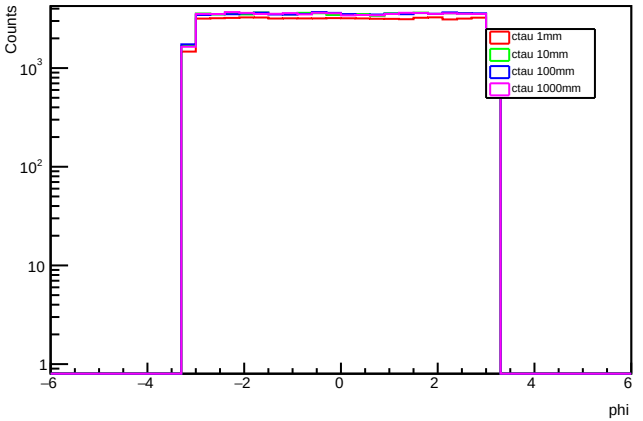
gen leading Mu eta: j1pt >120, at most 2 jets w/ pt >30 GeV



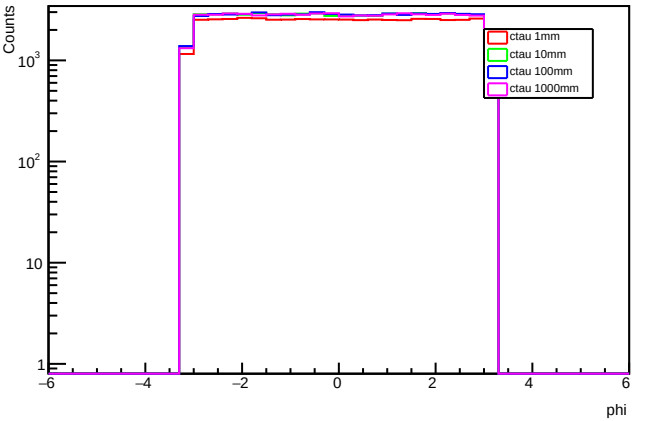
gen leading Mu eta: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



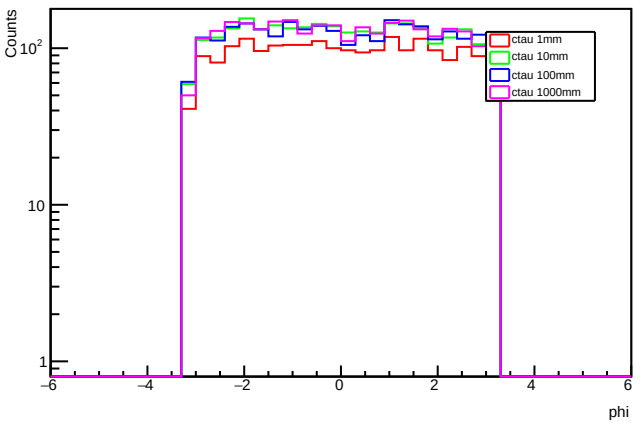
gen leading Mu phi: no cuts



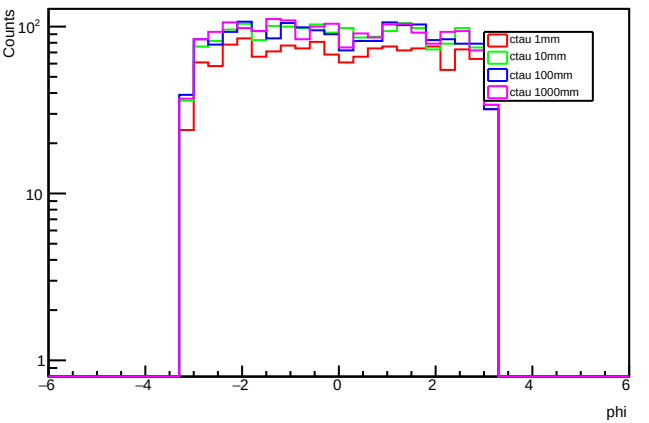
gen leading Mu phi: n_jet >=1, j1pt > 30 GeV



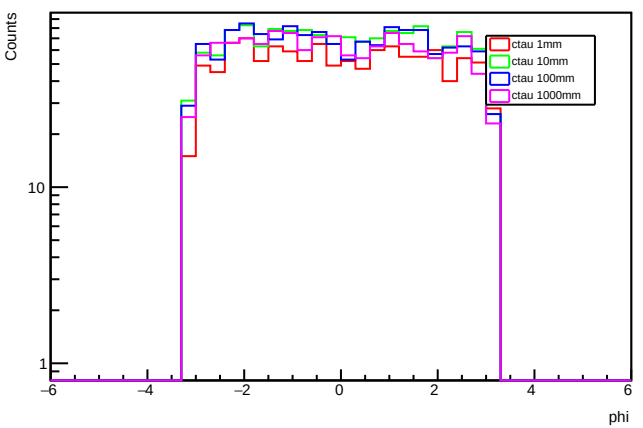
gen leading Mu phi: MET > 120 GeV



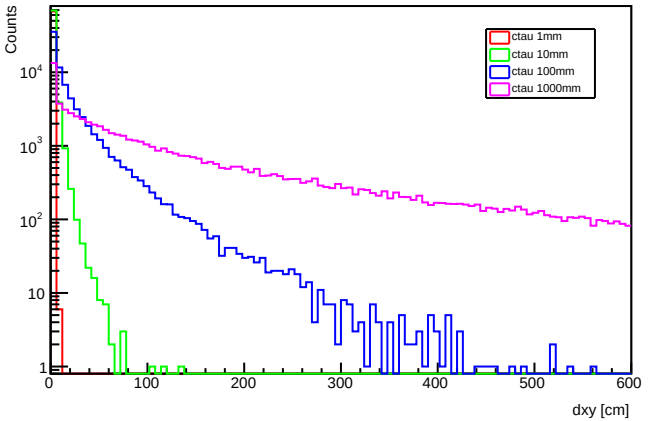
gen leading Mu phi: j1pt >120, at most 2 jets w/ pt >30 GeV



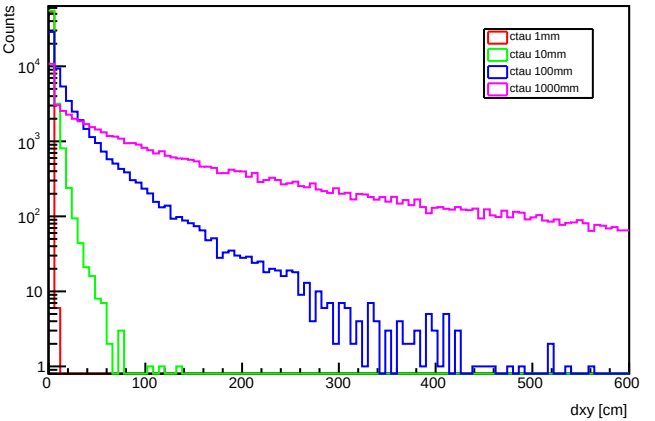
gen leading Mu phi: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



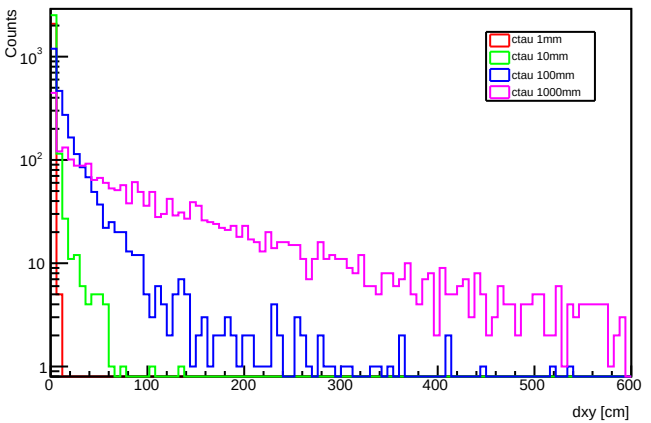
gen leading Mu vxy: no cuts



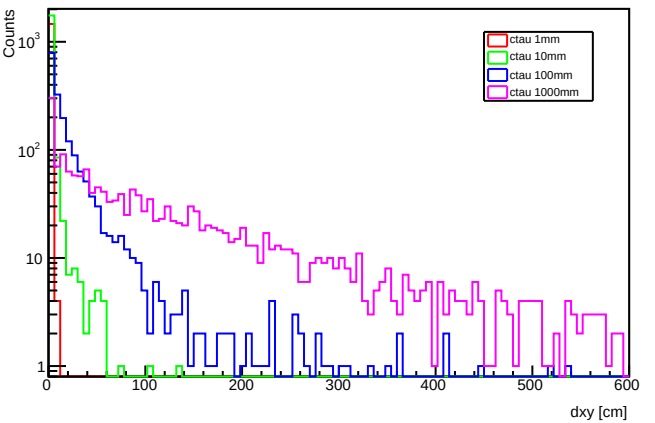
gen leading Mu vxy: n_jet >=1, j1pt > 30 GeV



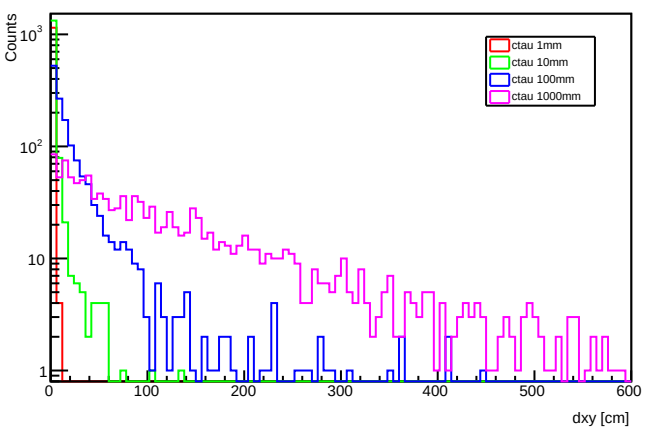
gen leading Mu vxy: MET > 120 GeV



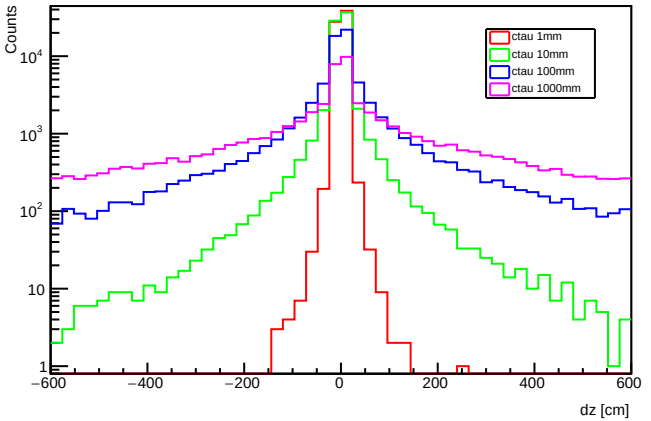
gen leading Mu vxy: j1pt >120, at most 2 jets w/ pt >30 GeV



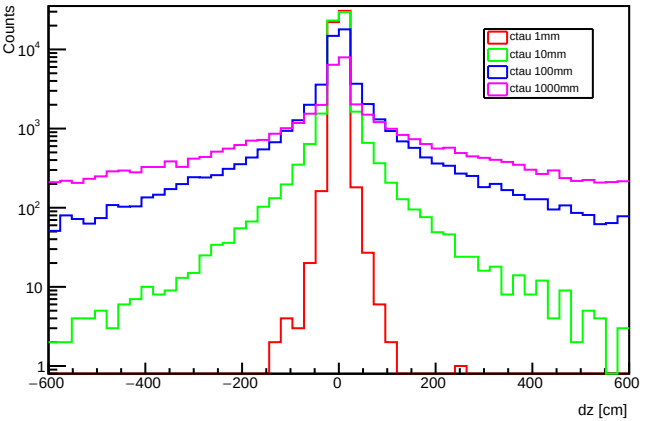
gen leading Mu vxy: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



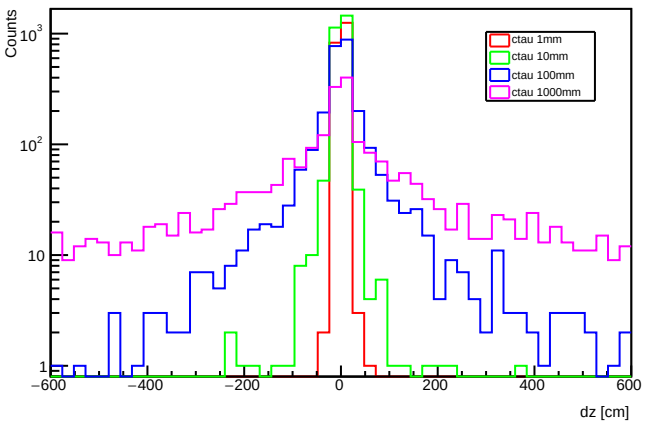
gen leading Mu vz: no cuts



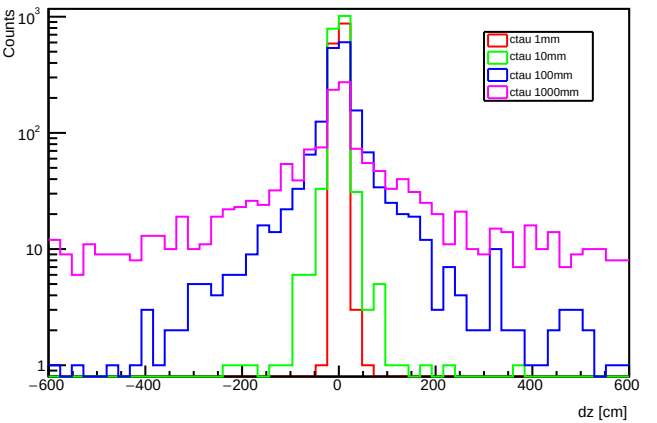
gen leading Mu vz: n_jet >=1, j1pt > 30 GeV



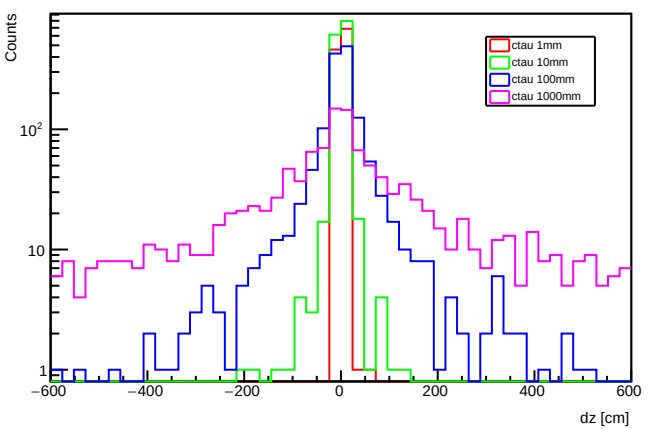
gen leading Mu vz: MET > 120 GeV



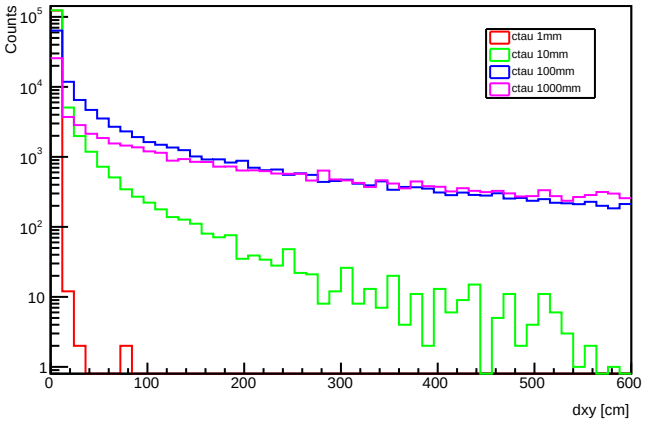
gen leading Mu vz: j1pt >120, at most 2 jets w/ pt >30 GeV



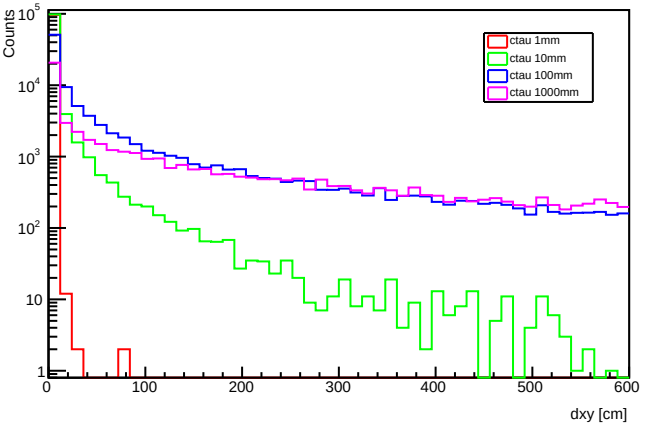
gen leading Mu vz: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



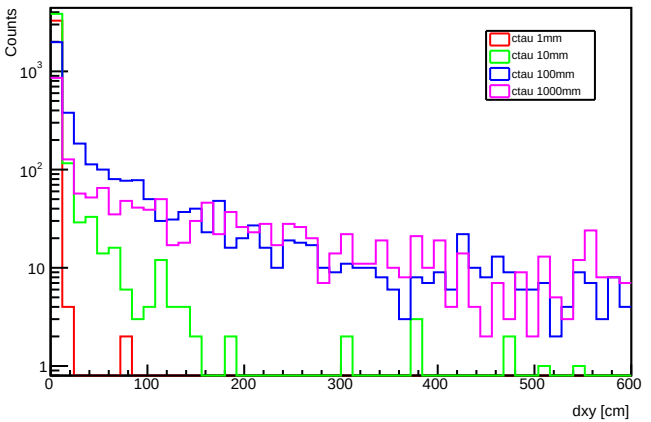
gen all Mu vxy: no cuts



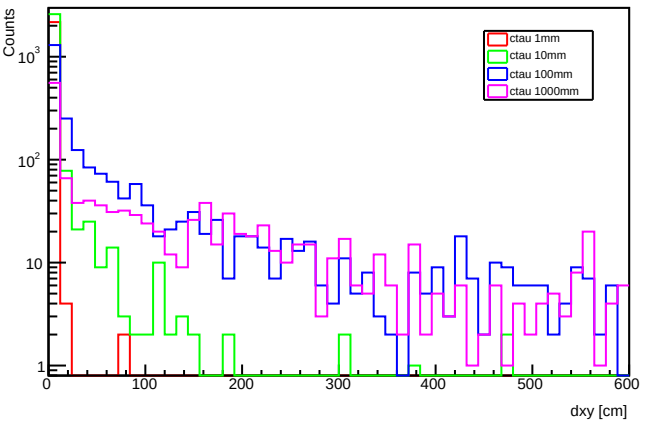
gen all Mu vxy: n_jet >=1, j1pt > 30 GeV



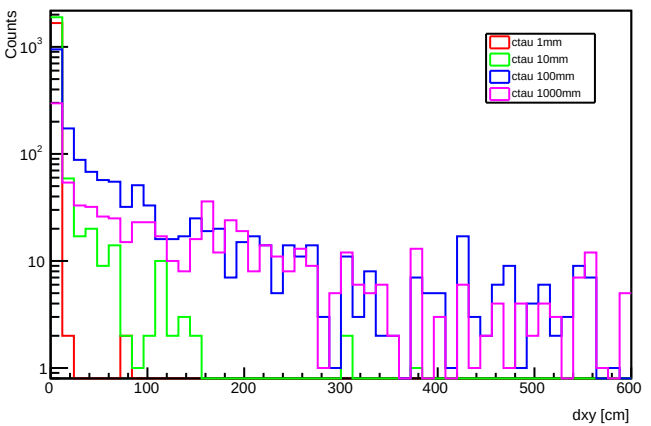
gen all Mu vxy: MET > 120 GeV



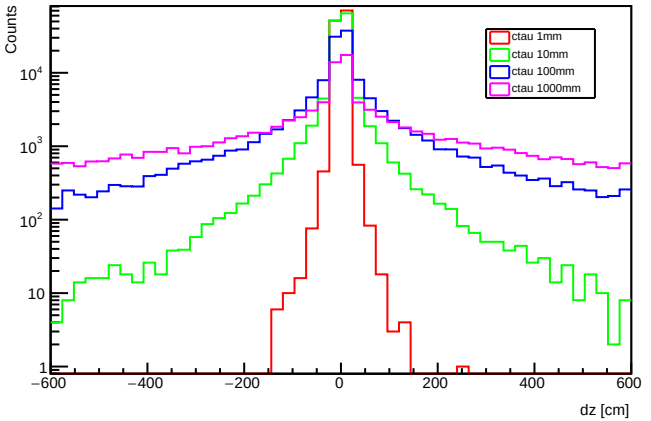
gen all Mu vxy: j1pt >120, at most 2 jets w/ pt >30 GeV



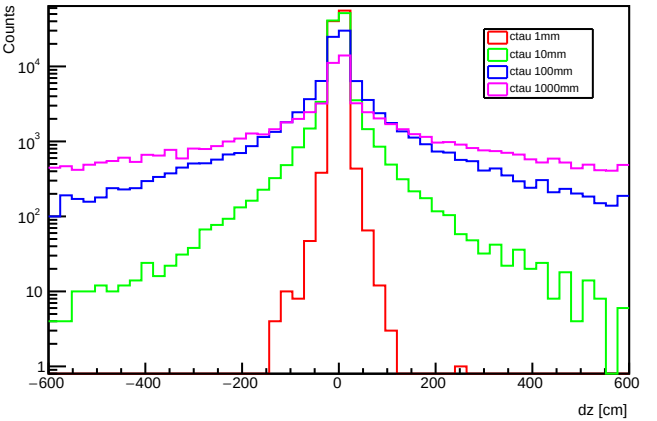
gen all Mu vxy: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



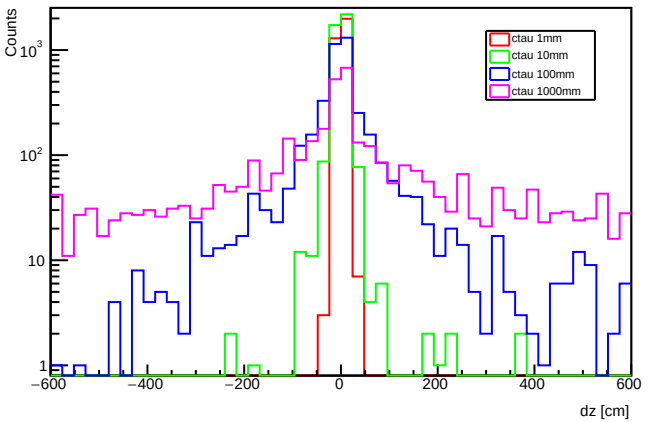
gen all Mu vz: no cuts



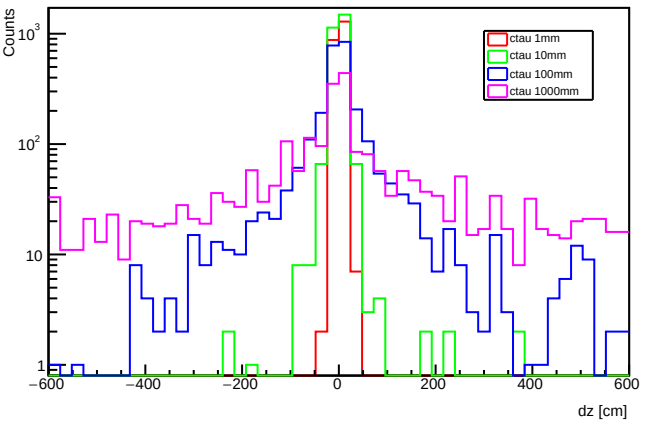
gen all Mu vz: n_jet >=1, j1pt > 30 GeV



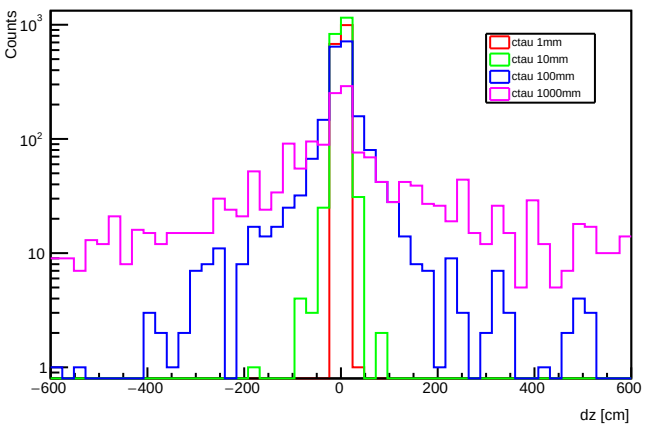
gen all Mu vz: MET > 120 GeV



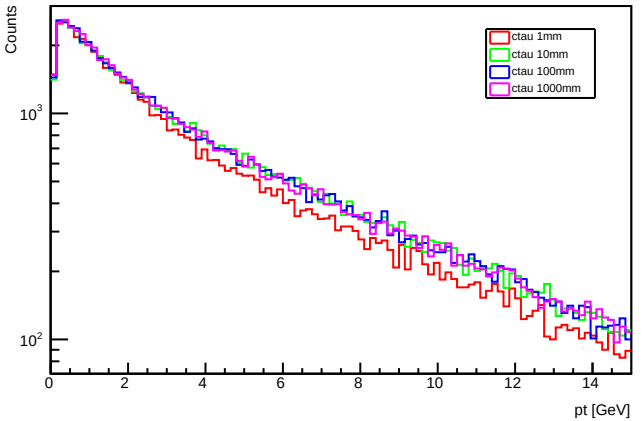
gen all Mu vz: j1pt >120, at most 2 jets w/ pt >30 GeV



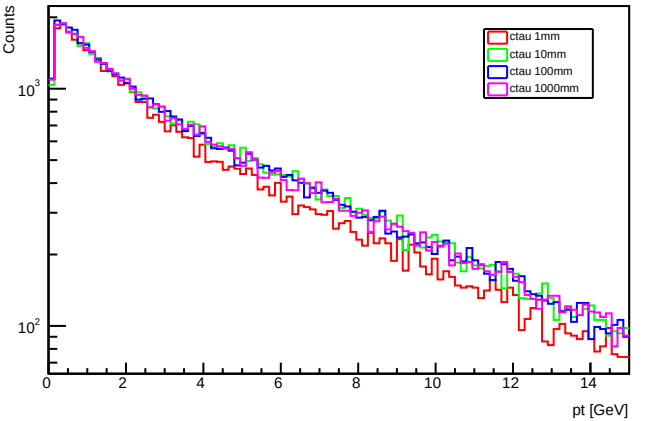
gen all Mu vz: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



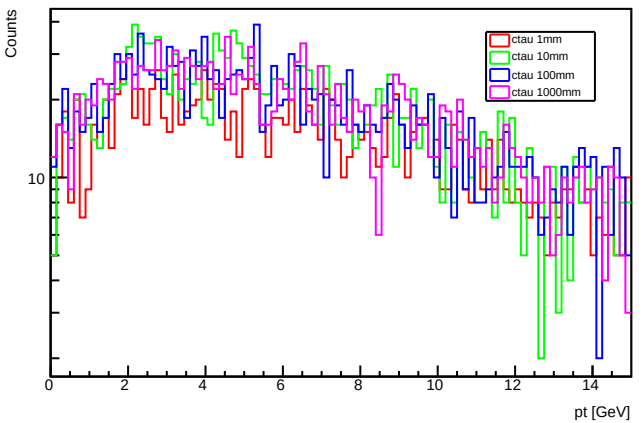
gen subleading Mu pt: no cuts



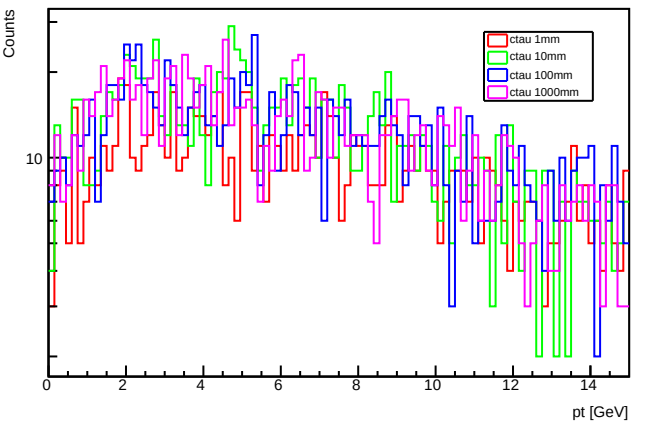
gen subleading Mu pt: n_jet >=1, j1pt > 30 GeV



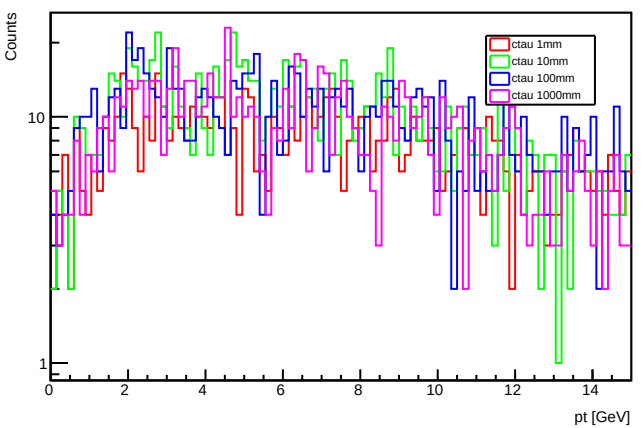
gen subleading Mu pt: MET > 120 GeV



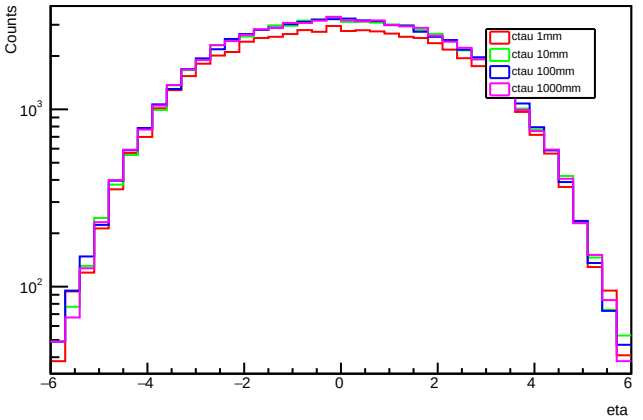
gen subleading Mu pt: j1pt >120, at most 2 jets w/ pt >30 GeV



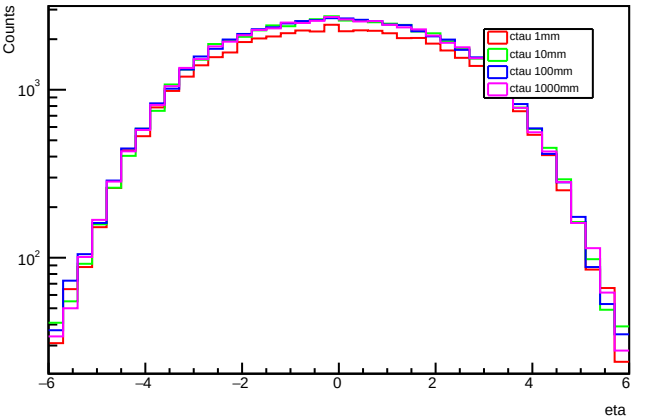
gen subleading Mu pt: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



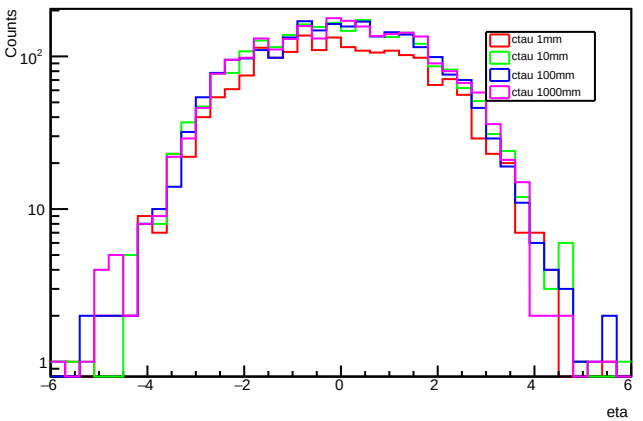
gen subleading Mu eta: no cuts



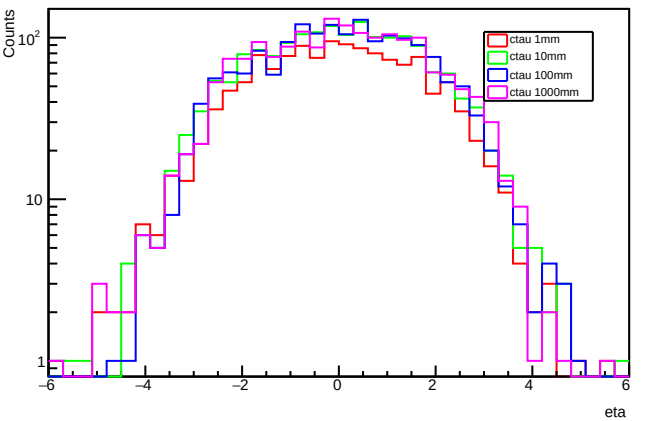
gen subleading Mu eta: n_jet >=1, j1pt > 30 GeV



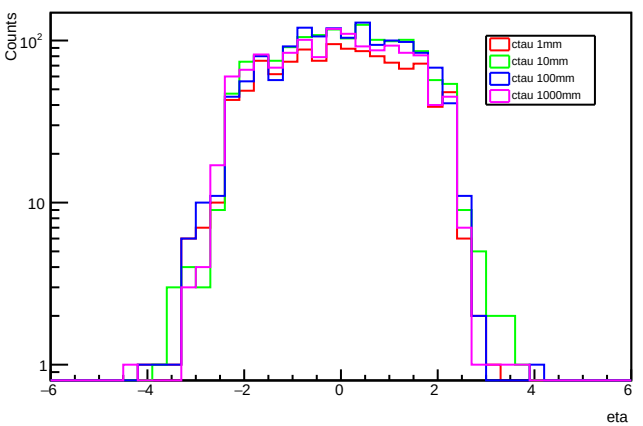
gen subleading Mu eta: MET > 120 GeV



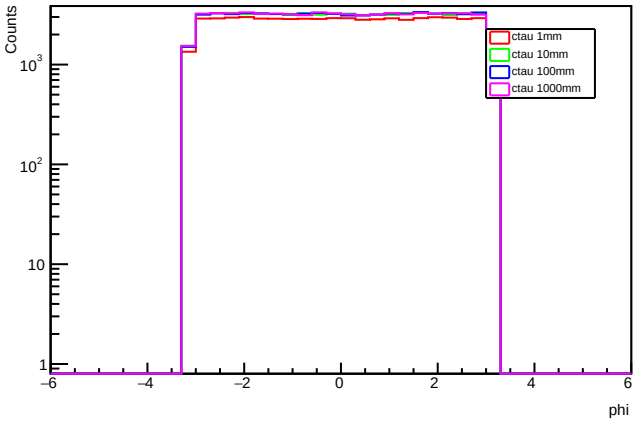
gen subleading Mu eta: j1pt >120, at most 2 jets w/ pt >30 GeV



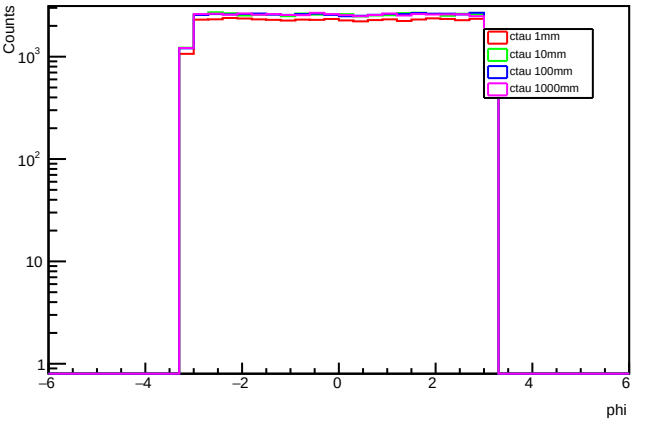
gen subleading Mu eta: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



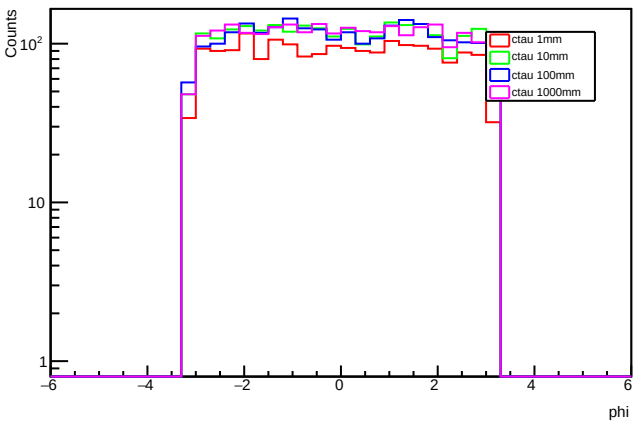
gen subleading Mu phi: no cuts



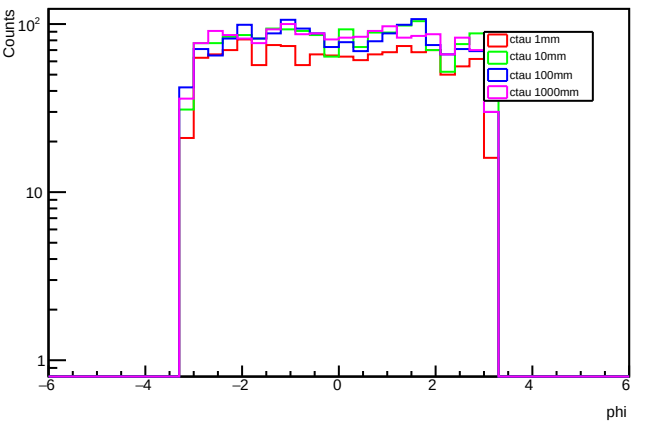
gen subleading Mu phi: n_jet >=1, j1pt > 30 GeV



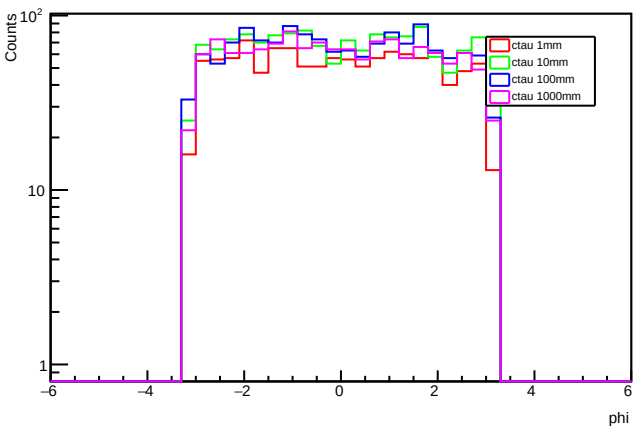
gen subleading Mu phi: MET > 120 GeV



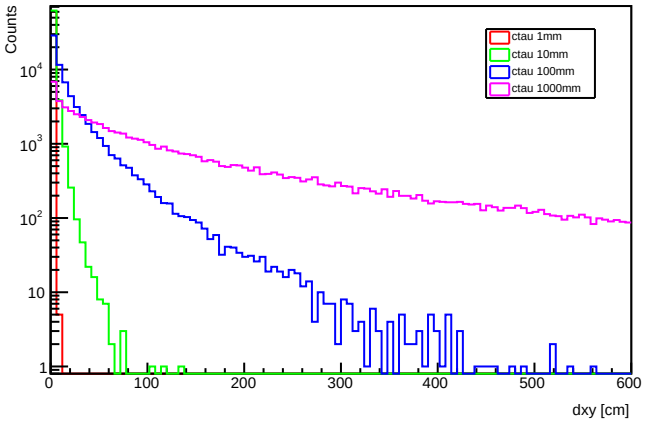
gen subleading Mu phi: j1pt >120, at most 2 jets w/ pt >30 GeV



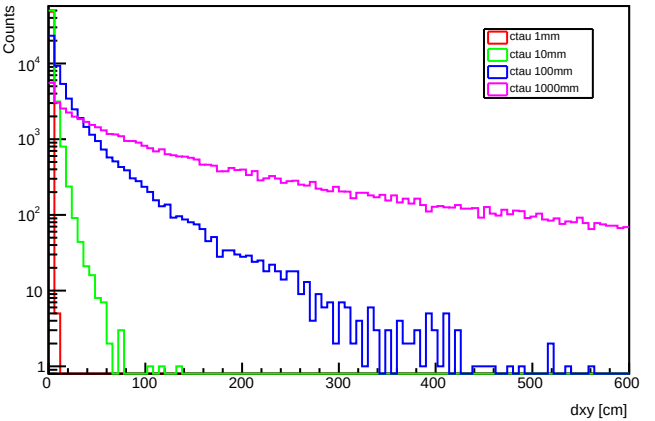
gen subleading Mu phi: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



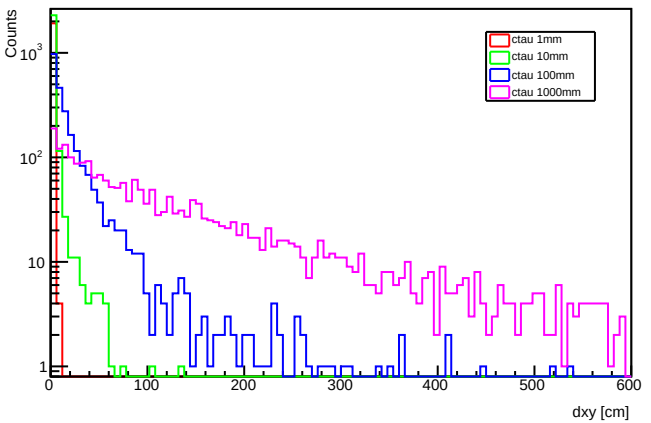
gen subleading Mu vxy: no cuts



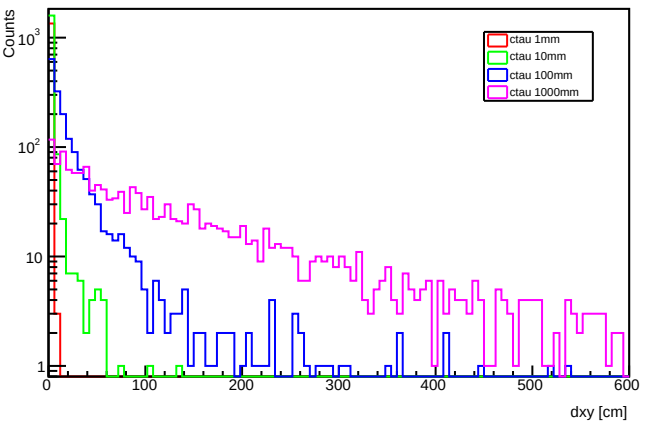
gen subleading Mu vxy: n_jet >=1, j1pt > 30 GeV



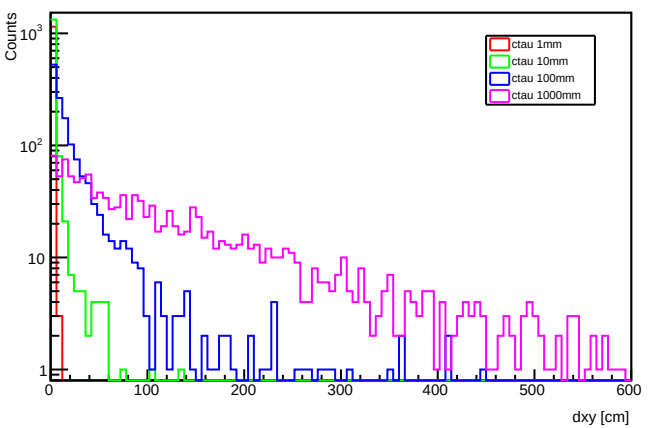
gen subleading Mu vxy: MET > 120 GeV



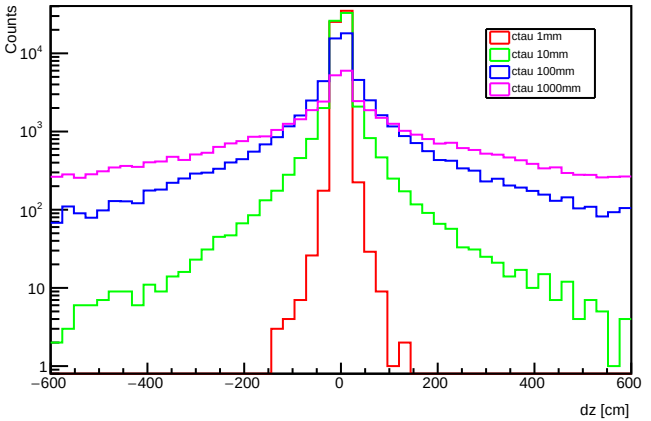
gen subleading Mu vxy: j1pt >120, at most 2 jets w/ pt >30 GeV



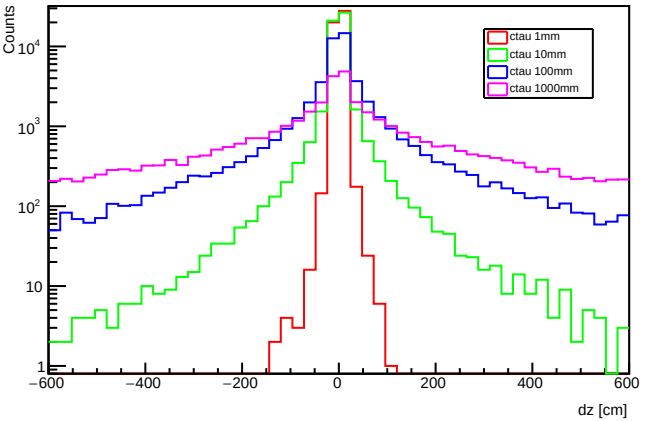
gen subleading Mu vxy: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



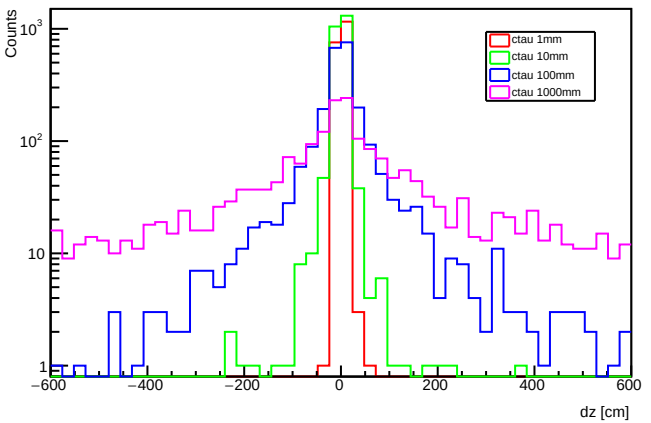
gen subleading Mu vz: no cuts



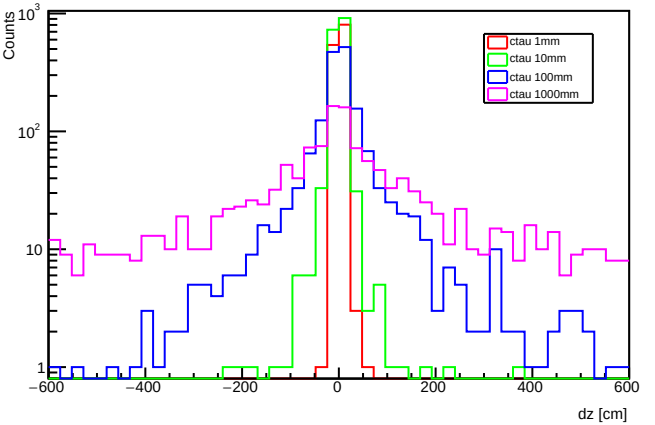
gen subleading Mu vz: n_jet >=1, j1pt > 30 GeV



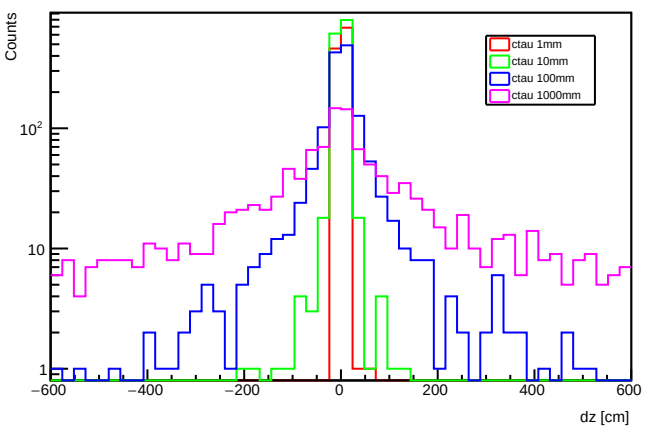
gen subleading Mu vz: MET > 120 GeV



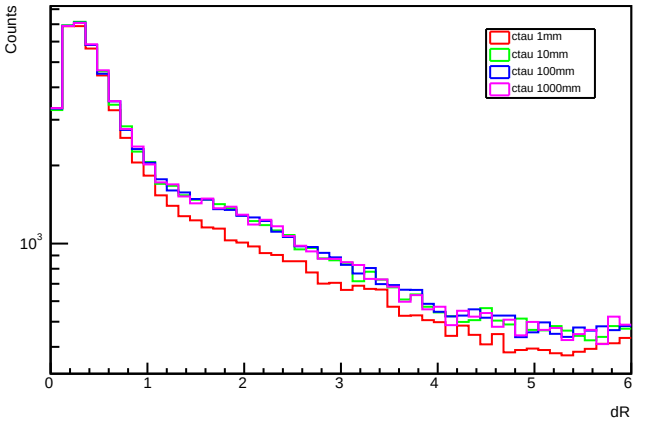
gen subleading Mu vz: j1pt >120, at most 2 jets w/ pt >30 GeV



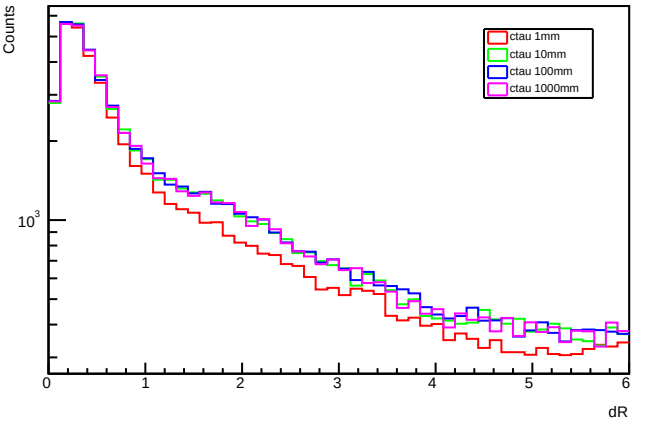
gen subleading Mu vz: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



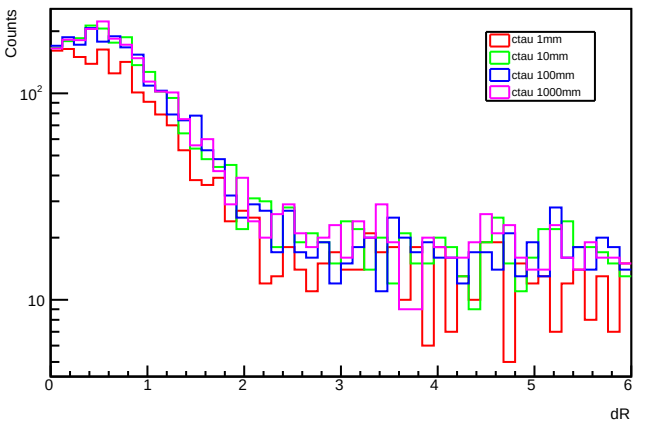
dR: gen leading mu and subleading mu: no cuts



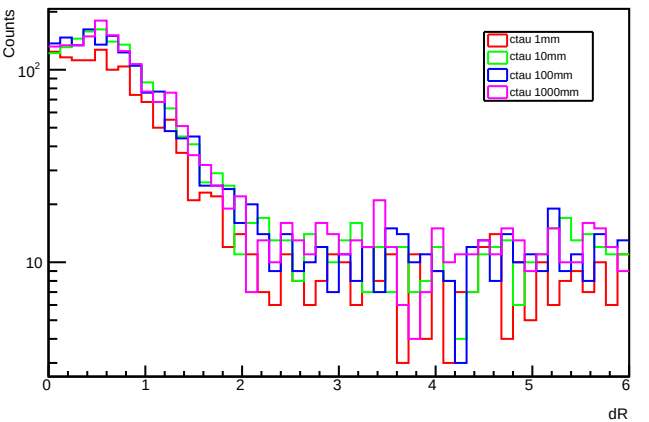
dR: gen leading mu and subleading mu: n_jet >=1, j1pt > 30 GeV



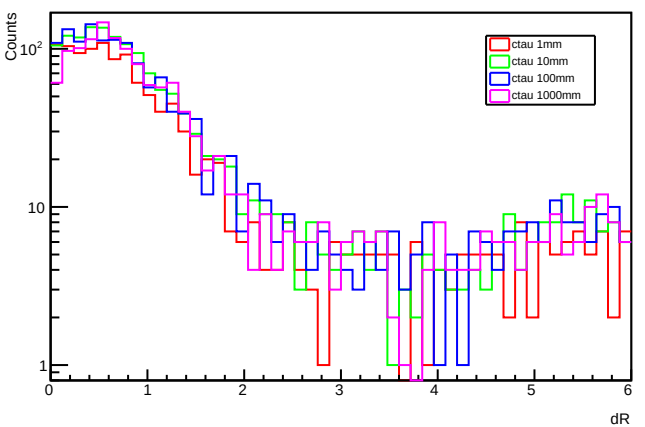
dR: gen leading mu and subleading mu: MET > 120 GeV



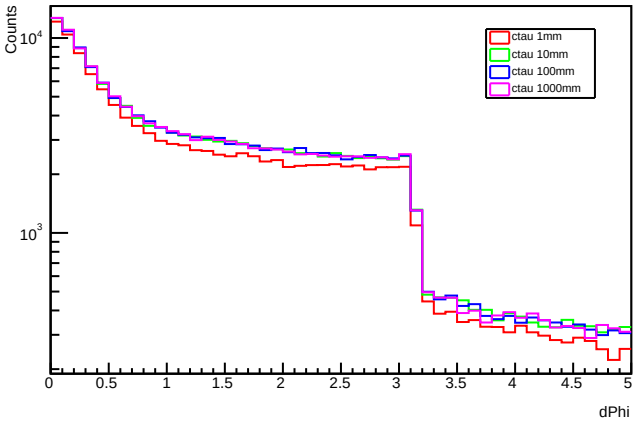
dR: gen leading mu and subleading mu: j1pt >120, at most 2 jets w/ pt >30 GeV



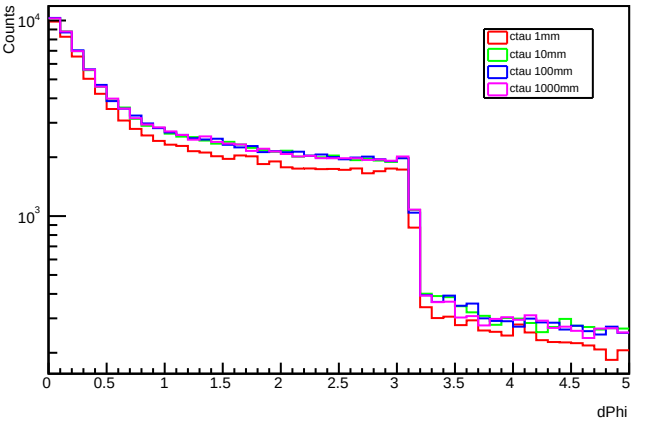
dR: gen leading mu and subleading mu: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



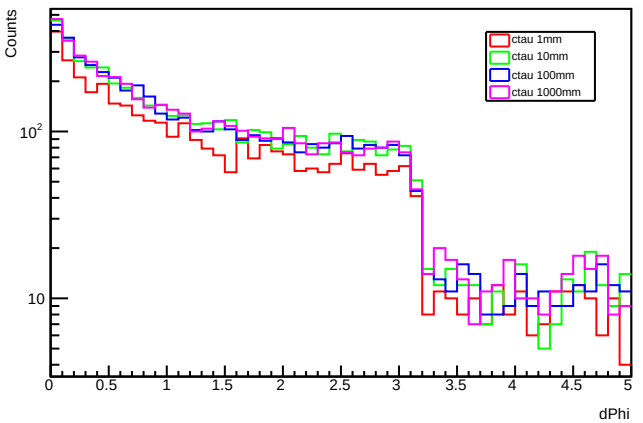
dPhi: gen MET and leading mu: no cuts



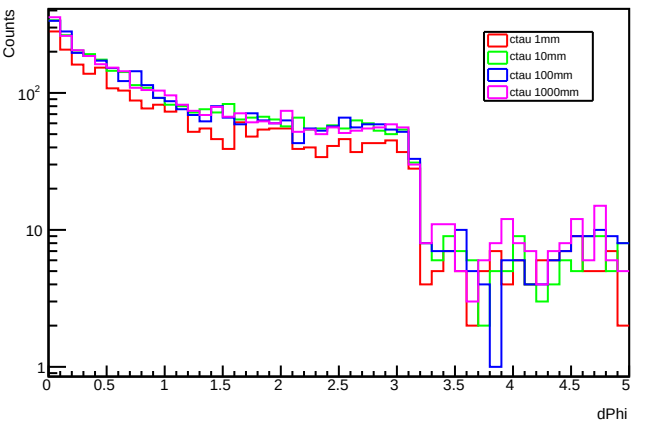
dPhi: gen MET and leading mu: n_jet >=1, j1pt > 30 GeV



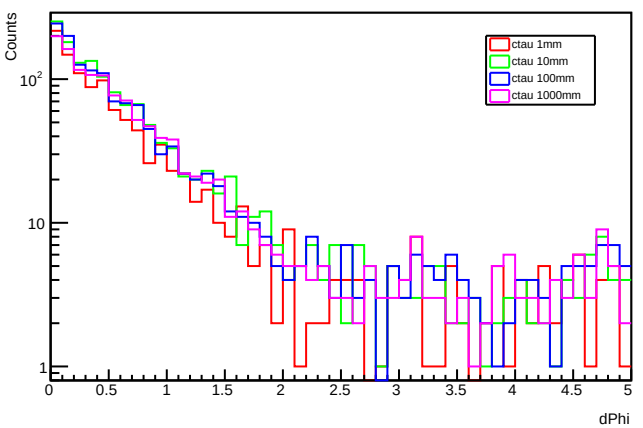
dPhi: gen MET and leading mu: MET > 120 GeV



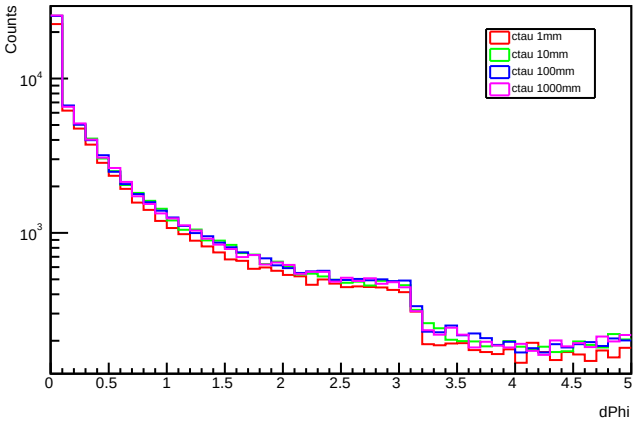
dPhi: gen MET and leading mu: j1pt >120, at most 2 jets w/ pt >30 GeV



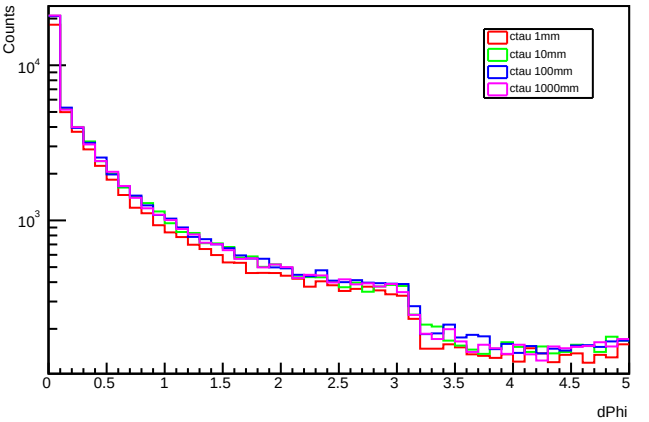
dPhi: gen MET and leading mu: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



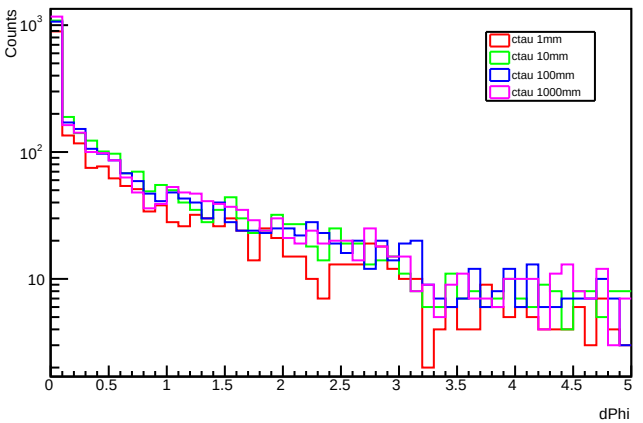
dPhi: gen leading mu and subleading mu: no cuts



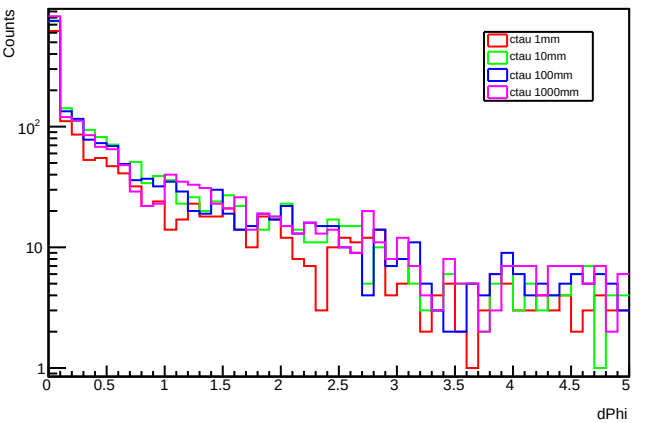
dPhi: gen leading mu and subleading mu: n_jet >=1, j1pt > 30 GeV



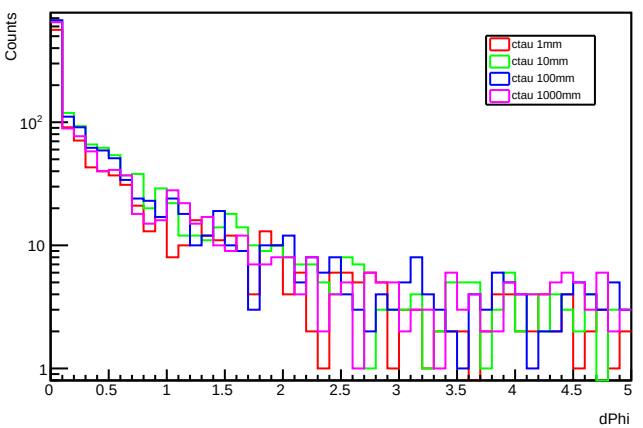
dPhi: gen leading mu and subleading mu: MET > 120 GeV



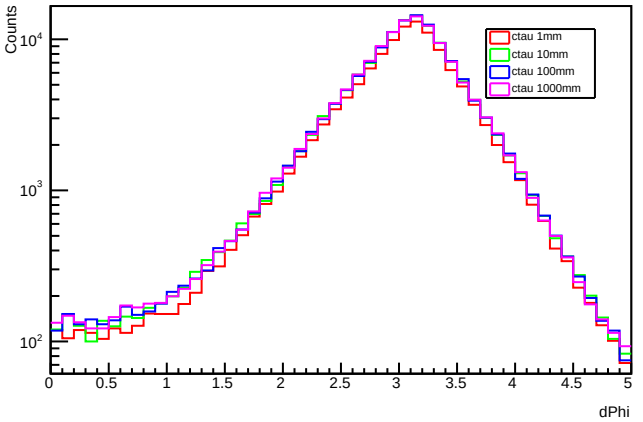
dPhi: gen leading mu and subleading mu: j1pt >120, at most 2 jets w/ pt >30 GeV



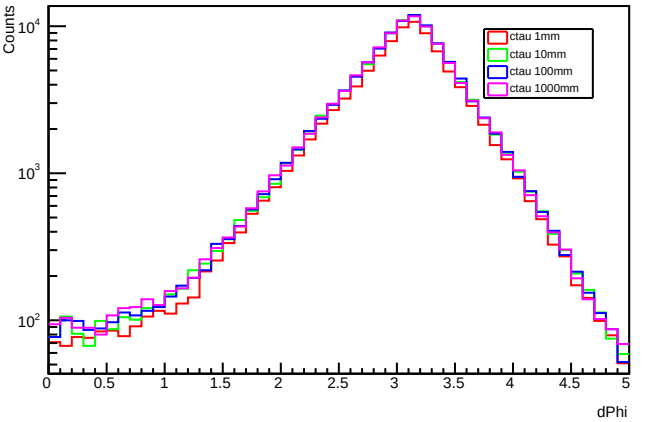
dPhi: gen leading mu and subleading mu: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



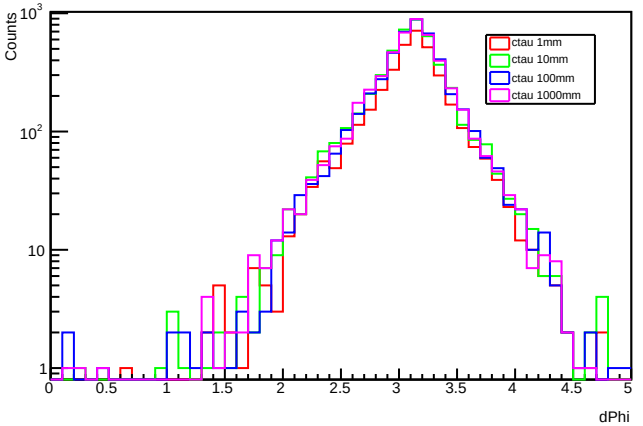
dPhi: gen MET and leading jet: no cuts



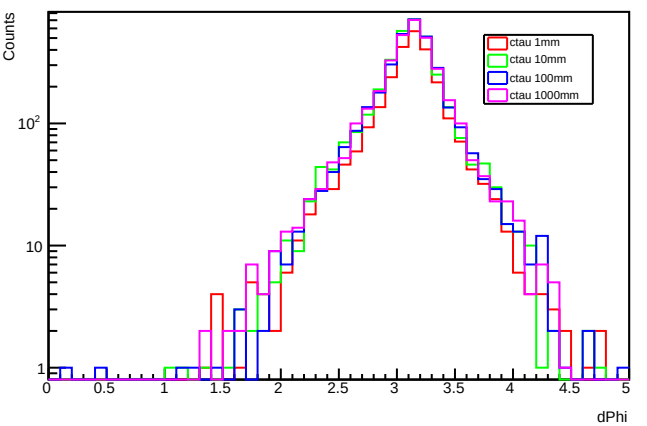
dPhi: gen MET and leading jet: n_jet >=1, j1pt > 30 GeV



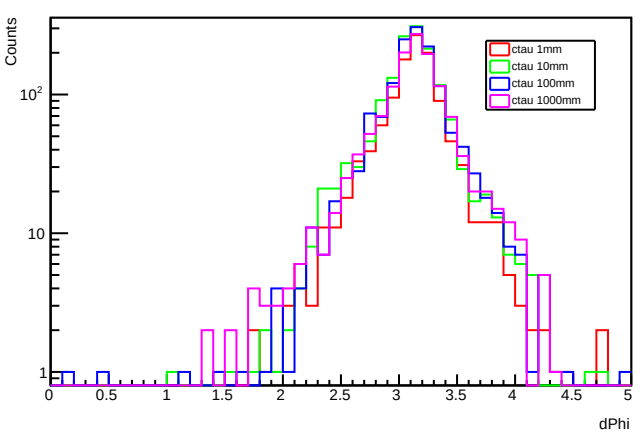
dPhi: gen MET and leading jet: MET > 120 GeV



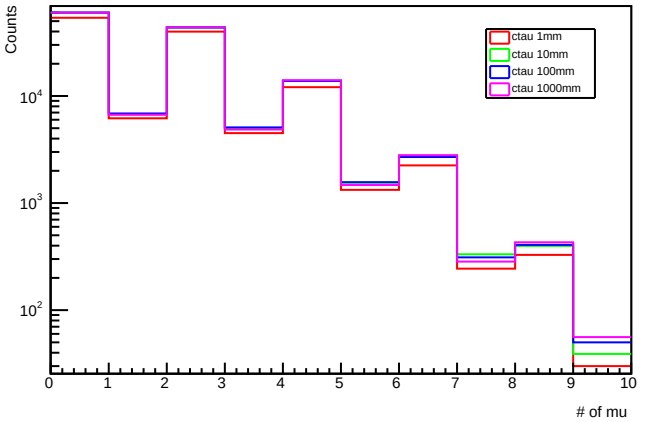
dPhi: gen MET and leading jet: j1pt >120, at most 2 jets w/ pt >30 GeV



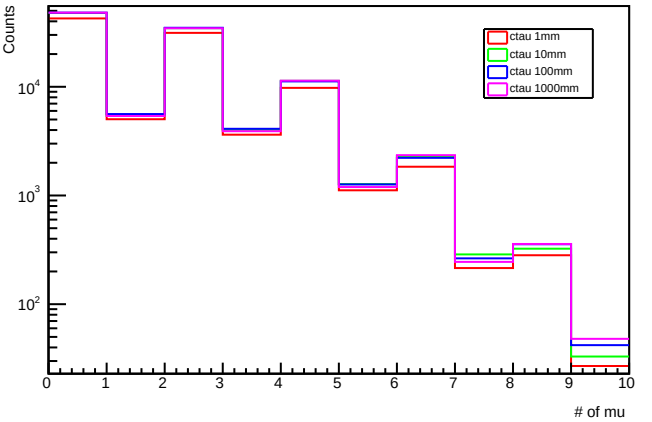
dPhi: gen MET and leading jet: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



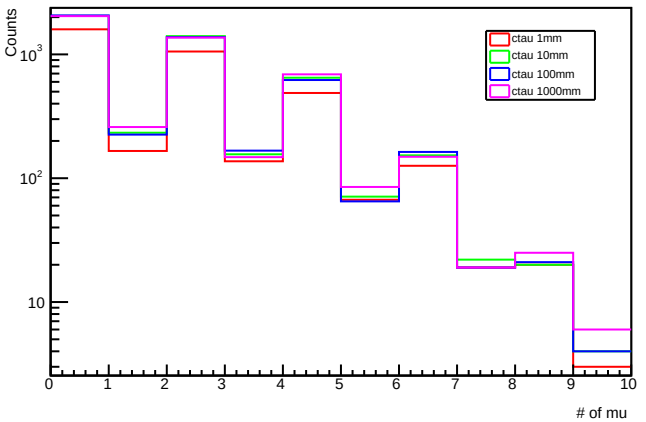
gen number of mu: no cuts



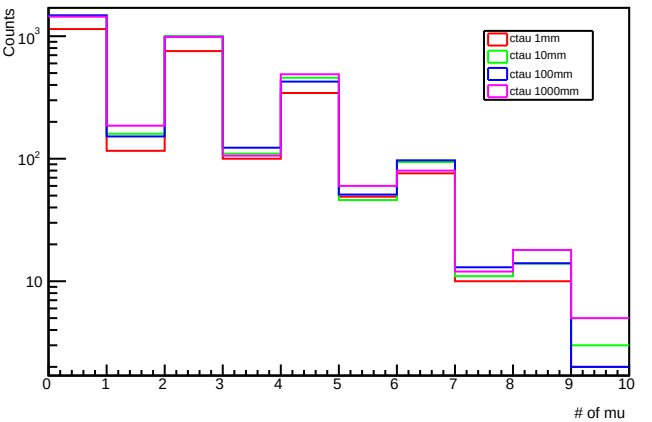
gen number of mu: n_jet >=1, j1pt > 30 GeV



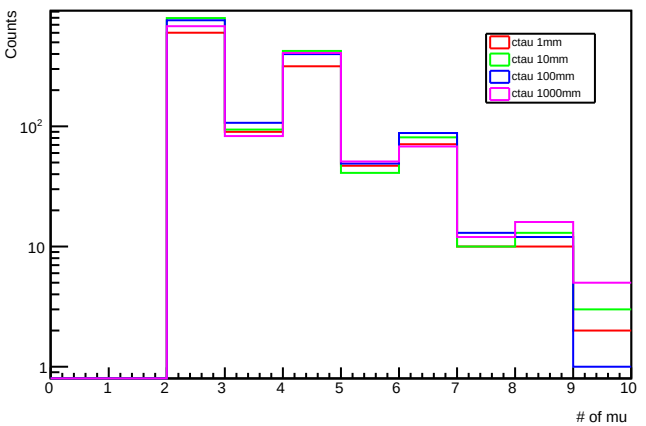
gen number of mu: MET > 120 GeV



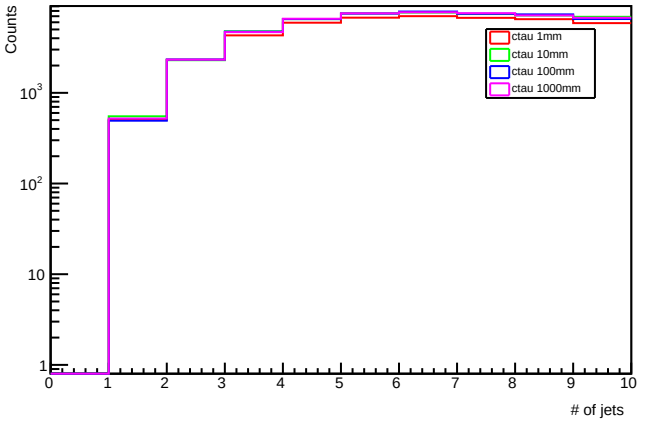
gen number of mu: j1pt >120, at most 2 jets w/ pt >30 GeV



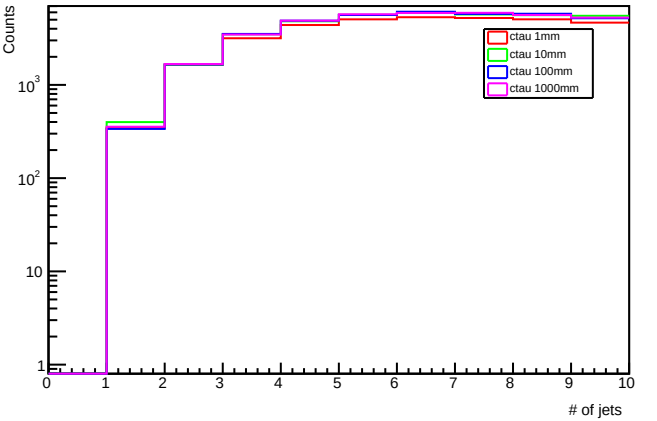
gen number of mu: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



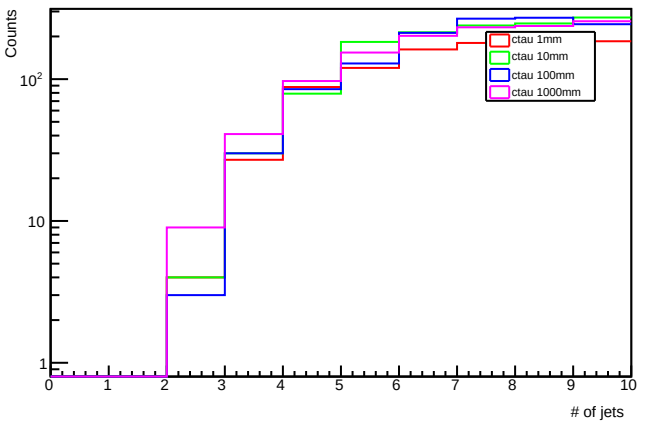
gen number of jets: no cuts



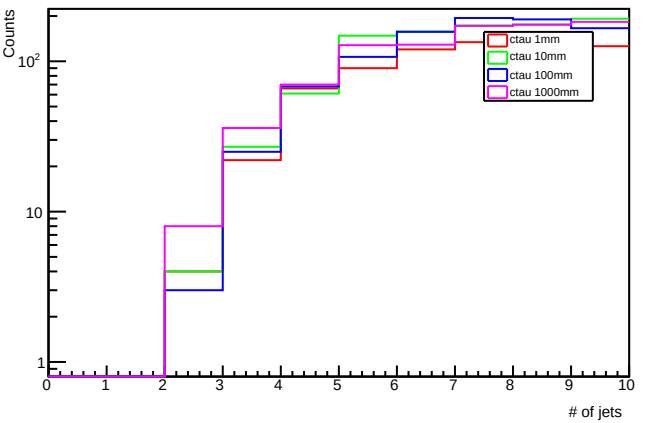
gen number of jets: n_jet >=1, j1pt > 30 GeV



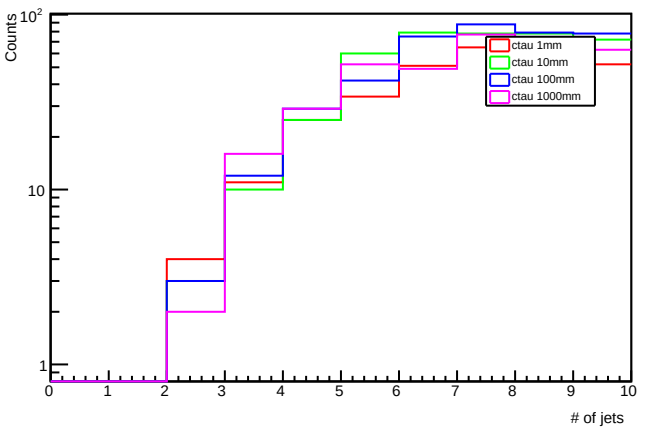
gen number of jets: MET > 120 GeV



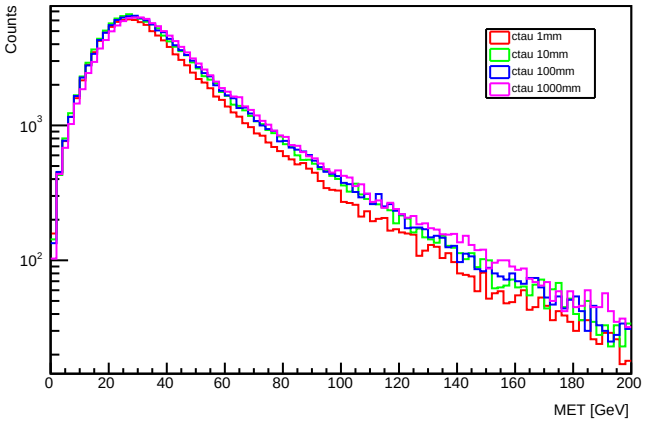
gen number of jets: j1pt >120, at most 2 jets w/ pt >30 GeV



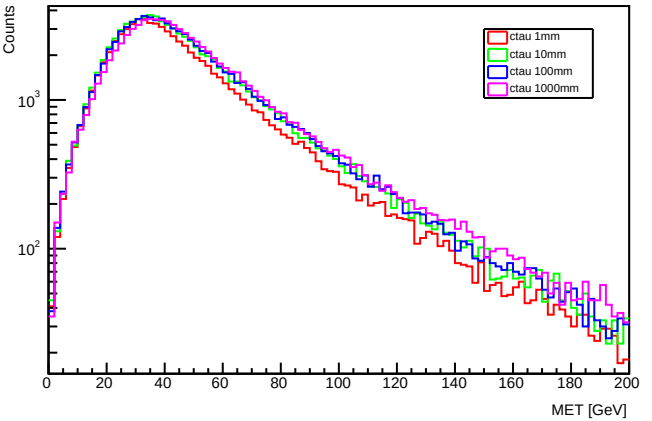
gen number of jets: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



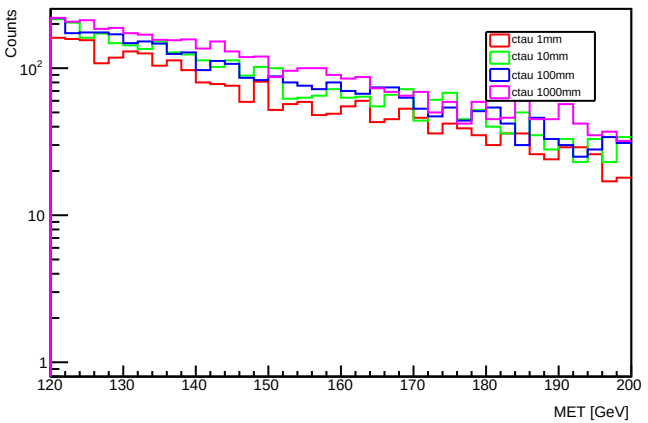
reco leading MET: no cuts



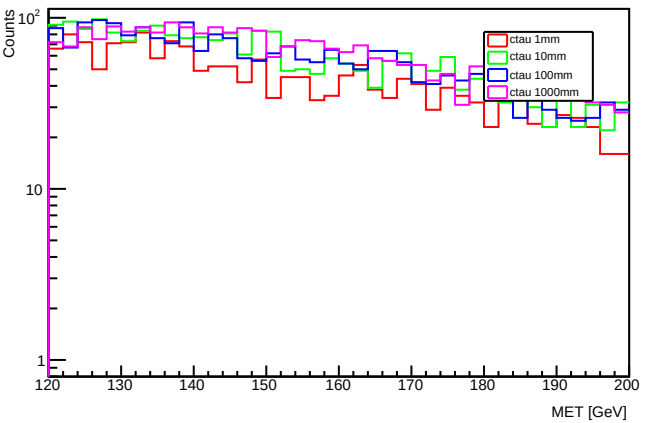
reco leading MET: n_jet >=1, j1pt > 30 GeV



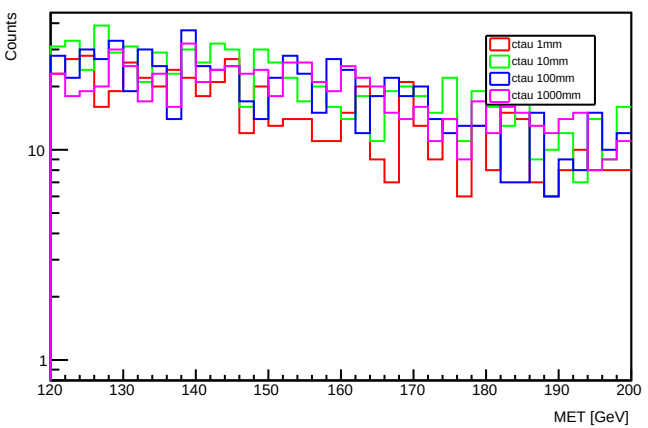
reco leading MET: MET > 120 GeV



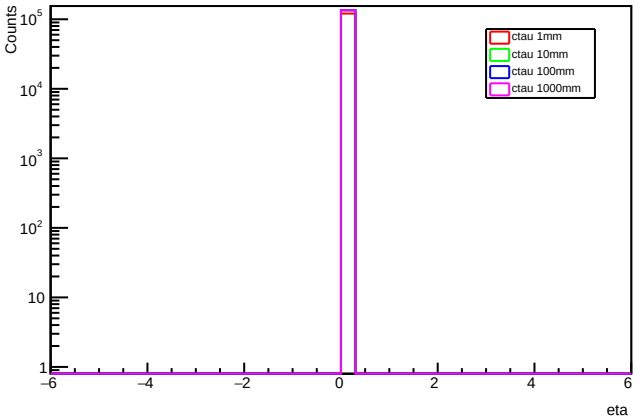
reco leading MET: j1pt >120, at most 2 jets w/ pt >30 GeV



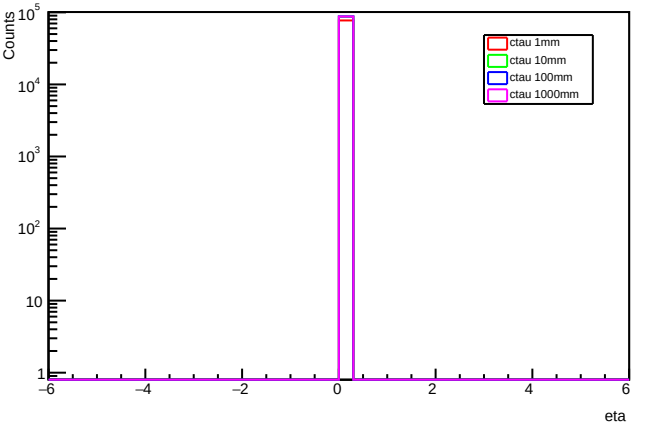
reco leading MET: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



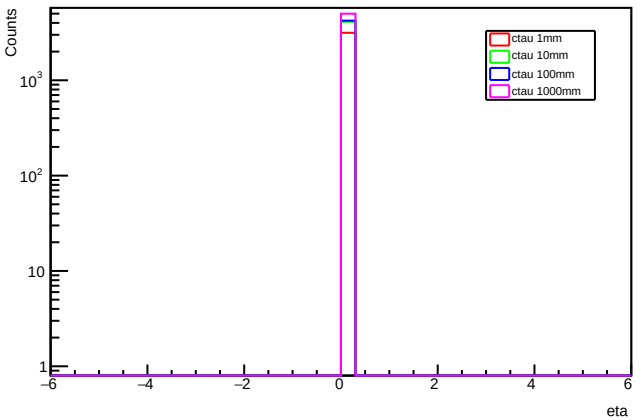
reco leading Met eta: no cuts



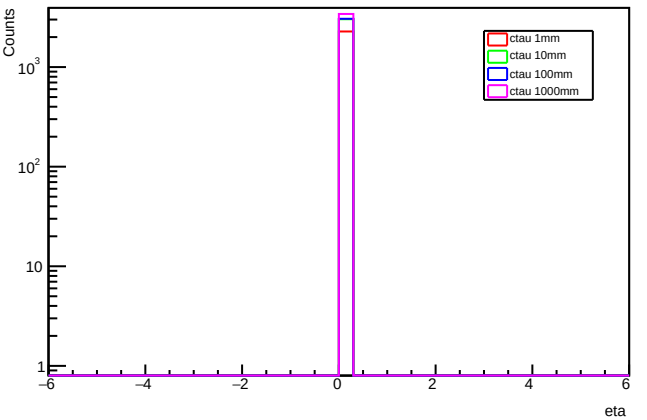
reco leading Met eta: n_jet >=1, j1pt > 30 GeV



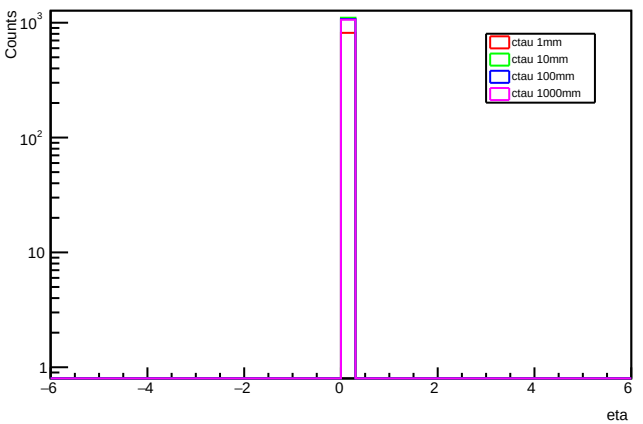
reco leading Met eta: MET > 120 GeV



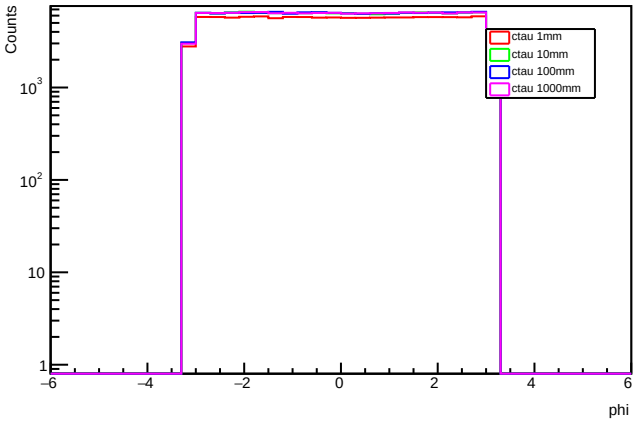
reco leading Met eta: j1pt >120, at most 2 jets w/ pt >30 GeV



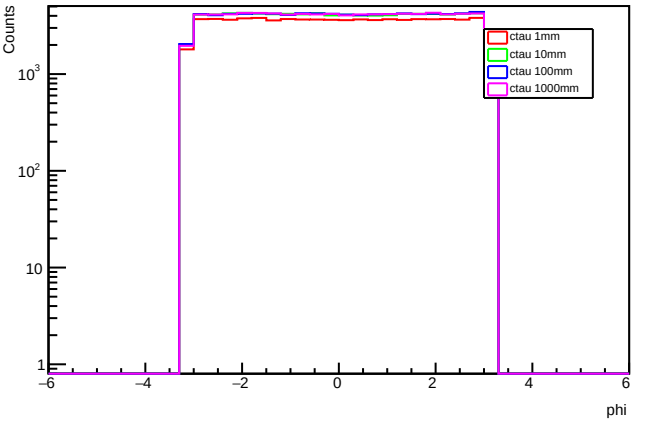
reco leading Met eta: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



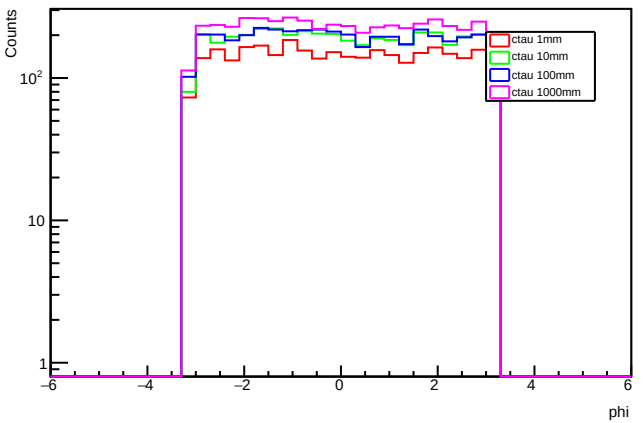
reco leading Met phi: no cuts



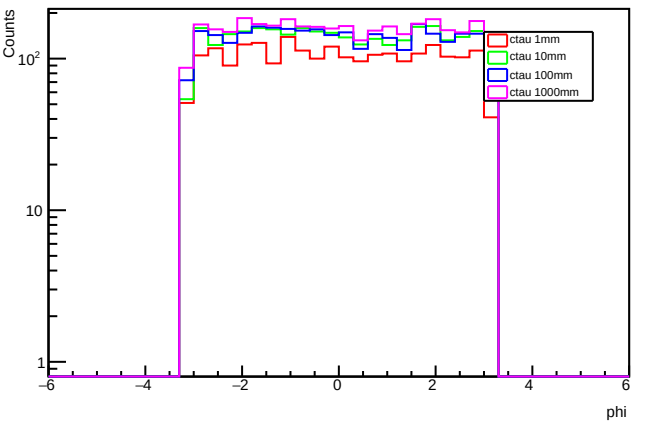
reco leading Met phi: n_jet >=1, j1pt > 30 GeV



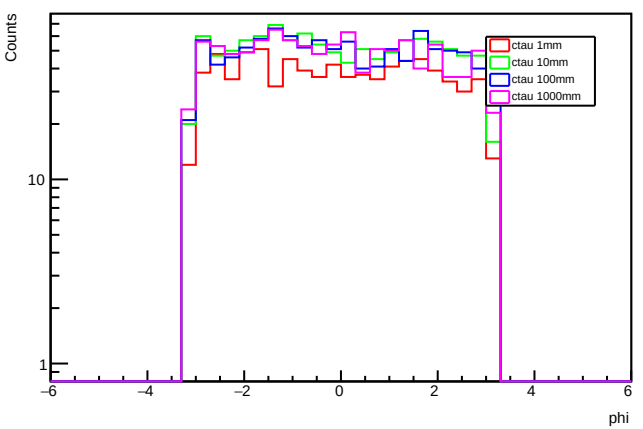
reco leading Met phi: MET > 120 GeV



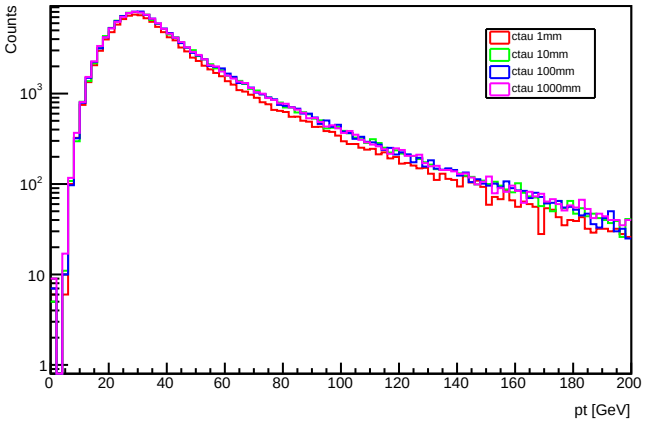
reco leading Met phi: j1pt >120, at most 2 jets w/ pt >30 GeV



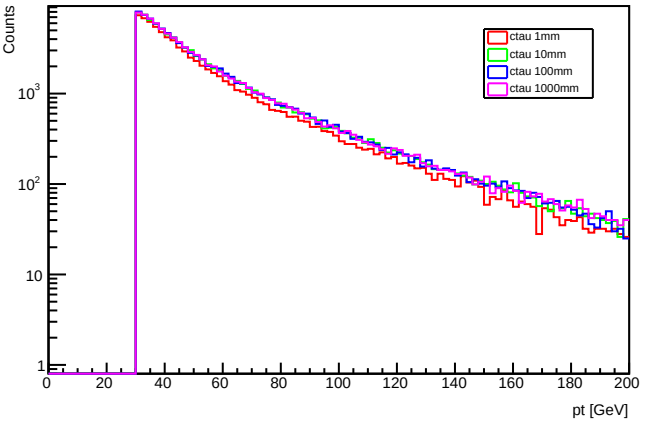
reco leading Met phi: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



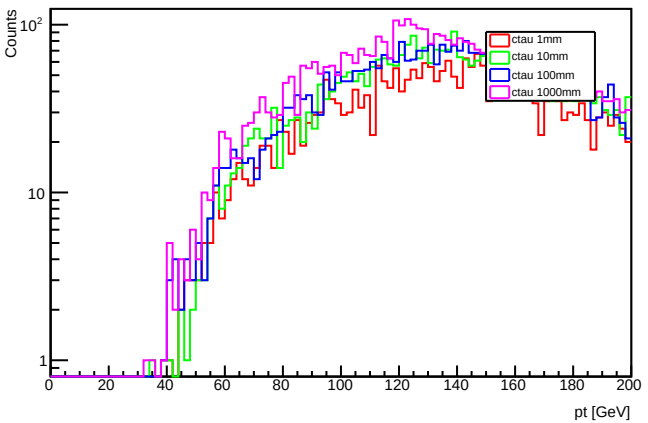
reco leading Jet pt: no cuts



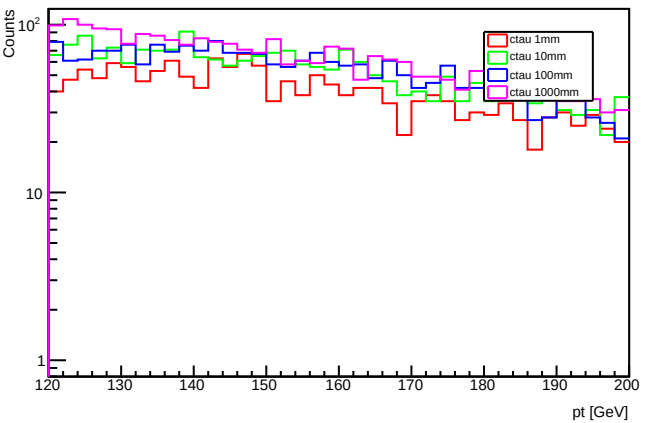
reco leading Jet pt: n_jet >=1, j1pt > 30 GeV



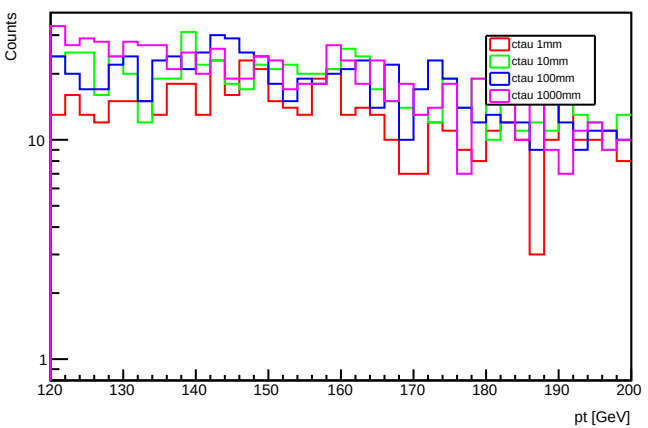
reco leading Jet pt: MET > 120 GeV



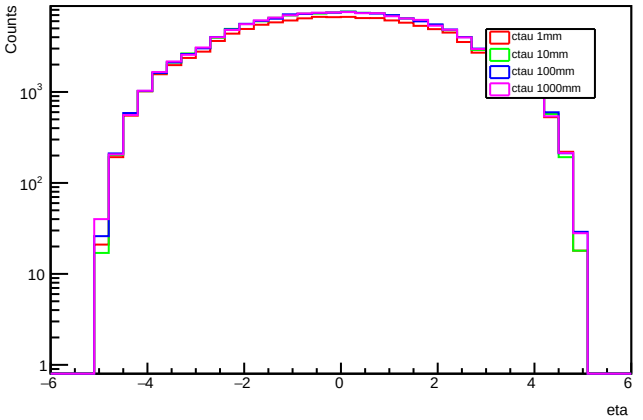
reco leading Jet pt: j1pt >120, at most 2 jets w/ pt >30 GeV



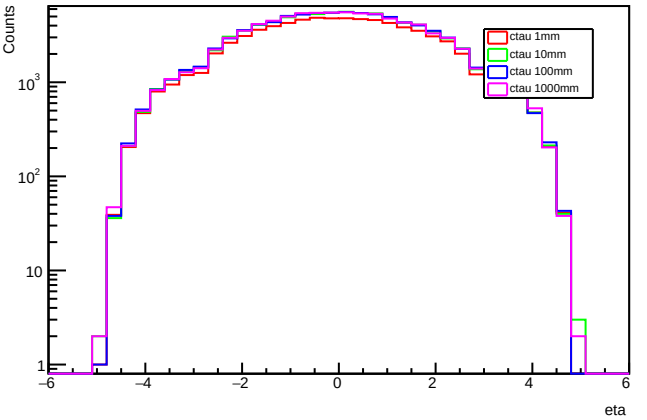
reco leading Jet pt: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



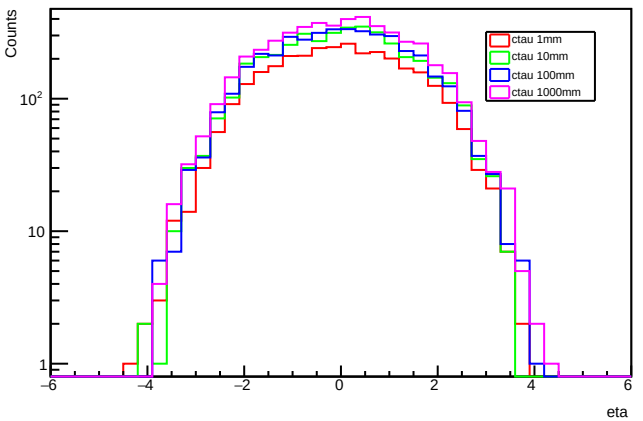
reco leading Jet eta: no cuts



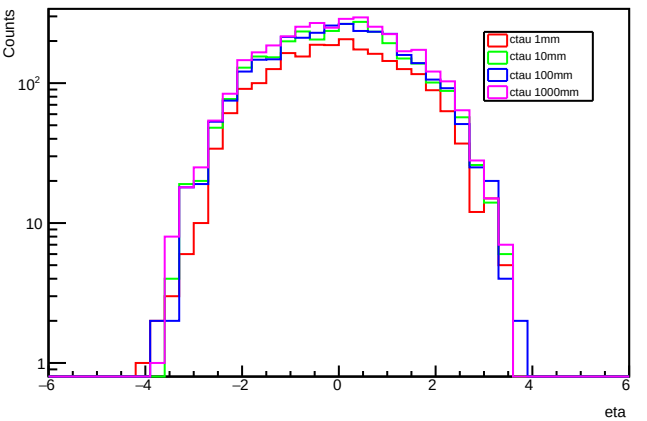
reco leading Jet eta: n_jet >=1, j1pt > 30 GeV



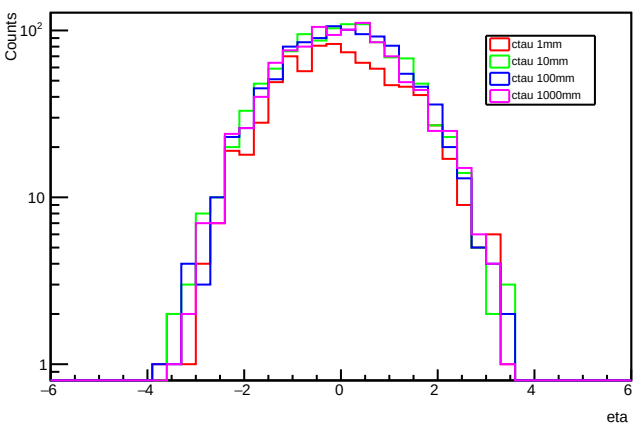
reco leading Jet eta: MET > 120 GeV



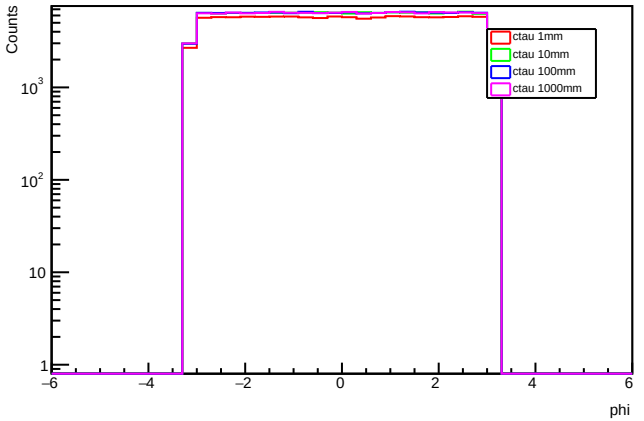
reco leading Jet eta: j1pt >120, at most 2 jets w/ pt >30 GeV



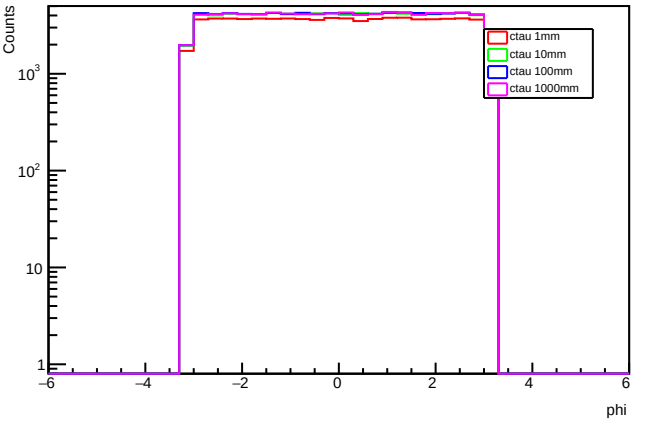
reco leading Jet eta: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



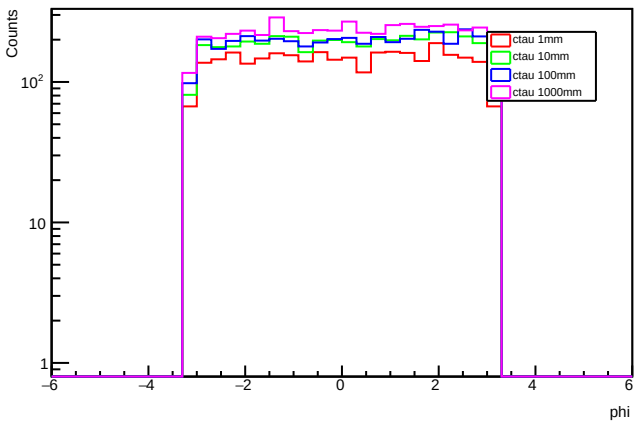
reco leading Jet phi: no cuts



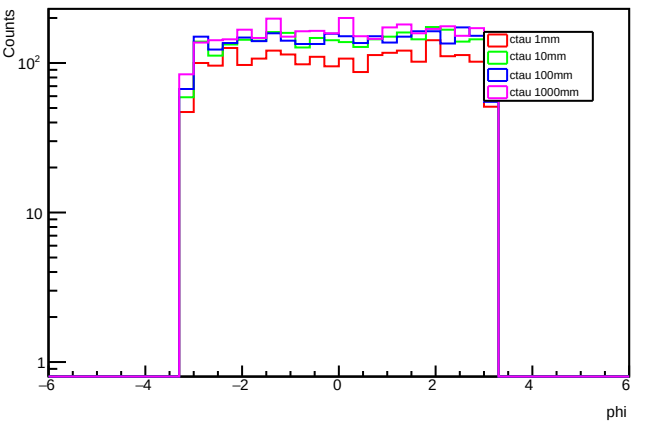
reco leading Jet phi: n_jet >=1, j1pt > 30 GeV



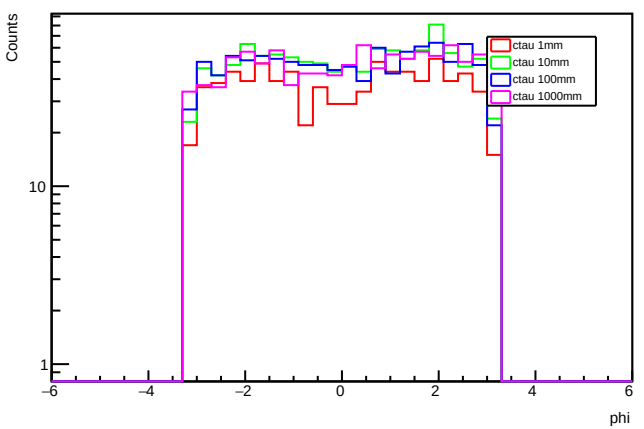
reco leading Jet phi: MET > 120 GeV



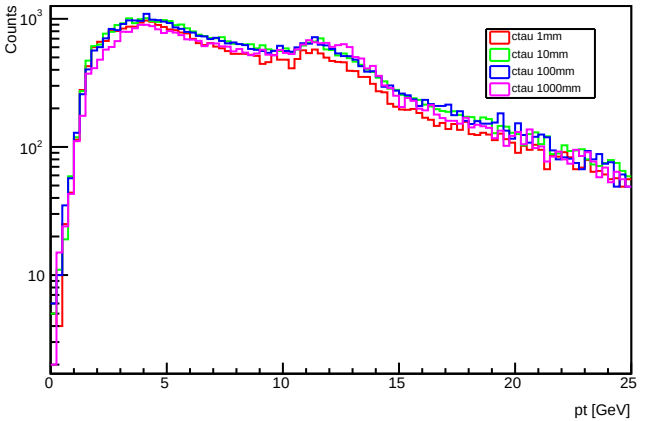
reco leading Jet phi: j1pt >120, at most 2 jets w/ pt >30 GeV



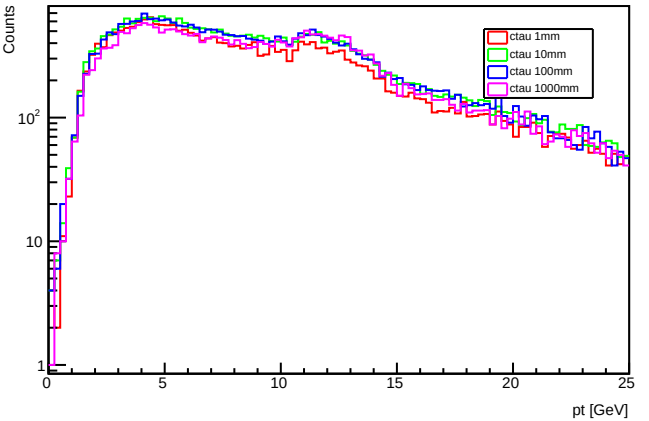
reco leading Jet phi: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



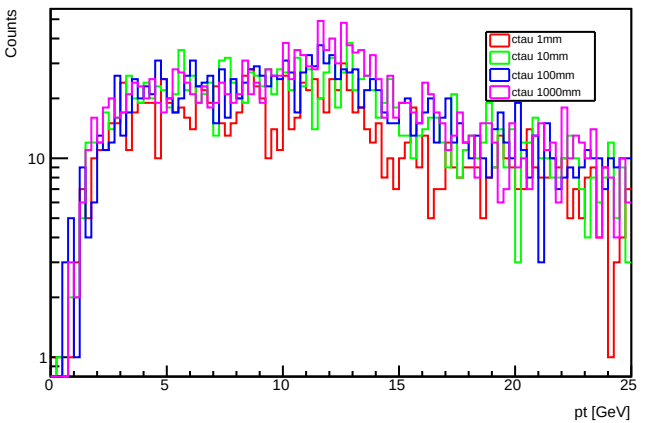
reco leading Mu pt: no cuts



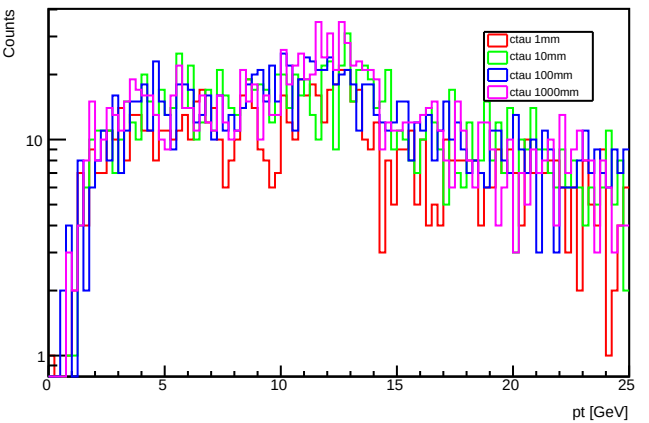
reco leading Mu pt: n_jet >=1, j1pt > 30 GeV



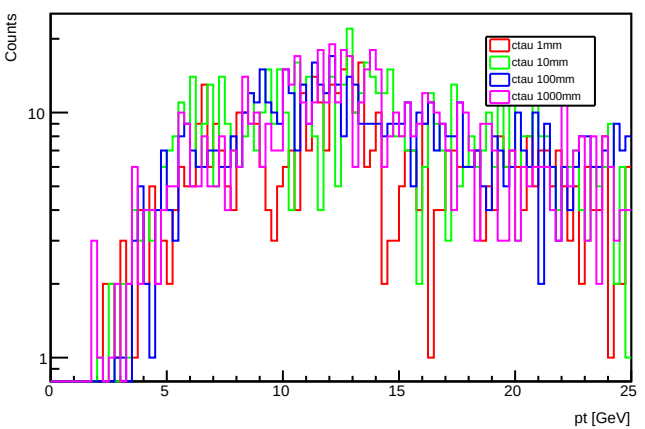
reco leading Mu pt: MET > 120 GeV



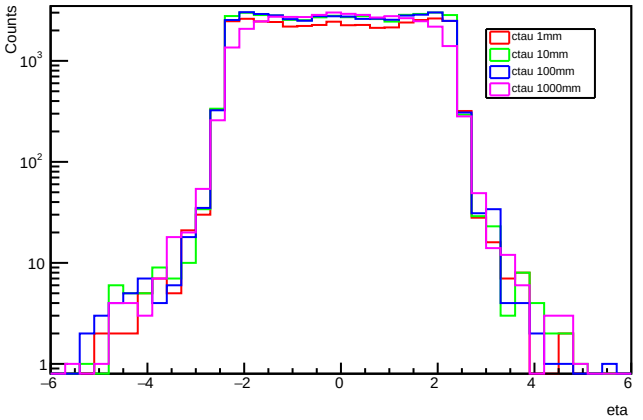
reco leading Mu pt: j1pt >120, at most 2 jets w/ pt >30 GeV



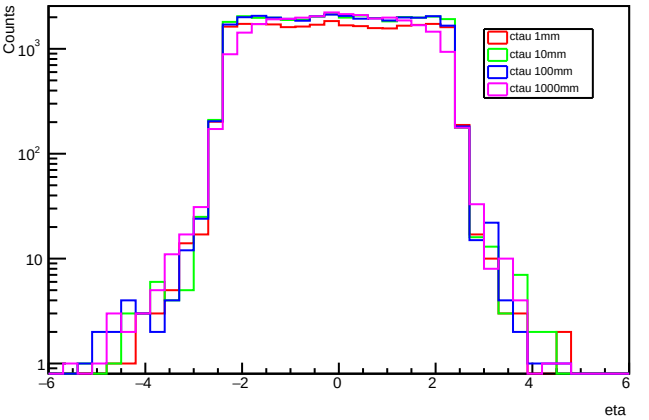
reco leading Mu pt: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



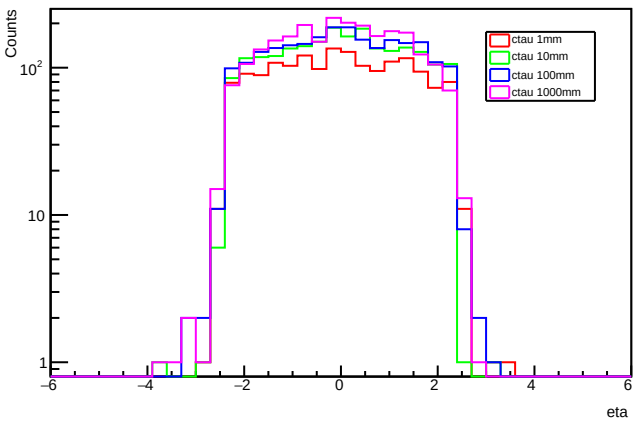
reco leading Mu eta: no cuts



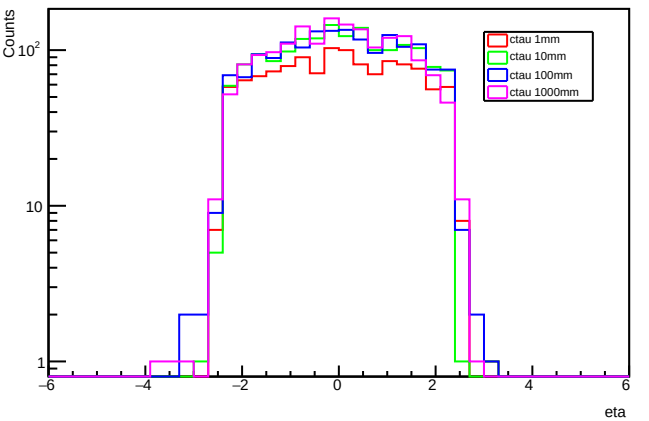
reco leading Mu eta: n_jet >=1, j1pt > 30 GeV



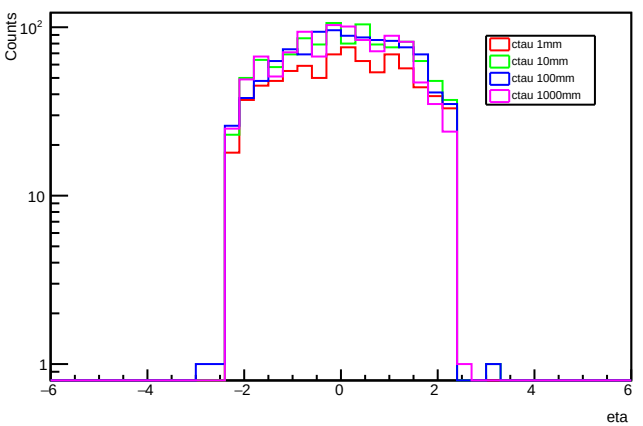
reco leading Mu eta: MET > 120 GeV



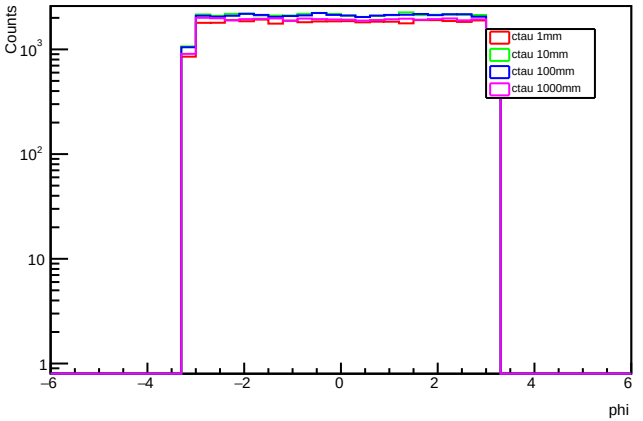
reco leading Mu eta: j1pt >120, at most 2 jets w/ pt >30 GeV



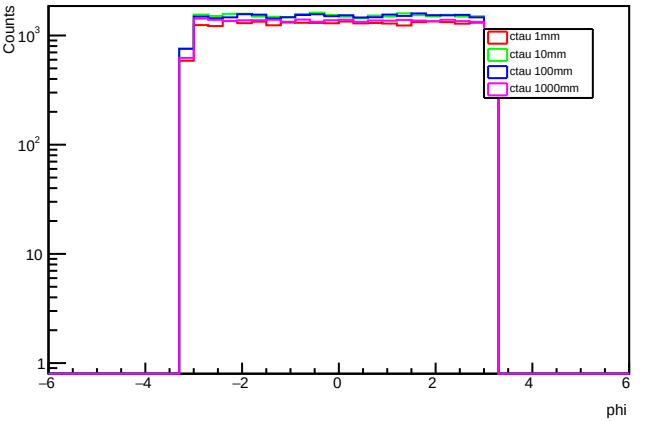
reco leading Mu eta: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



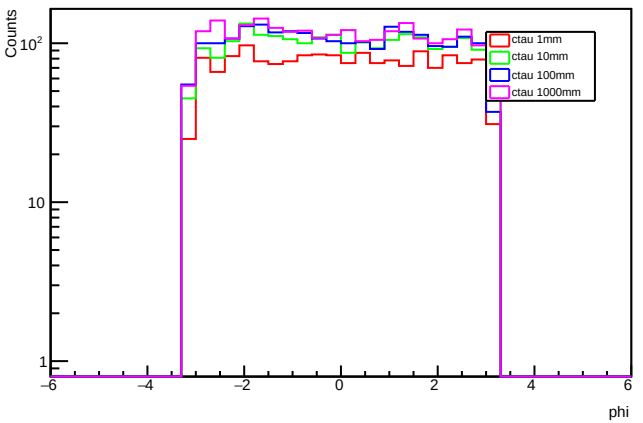
reco leading Mu phi: no cuts



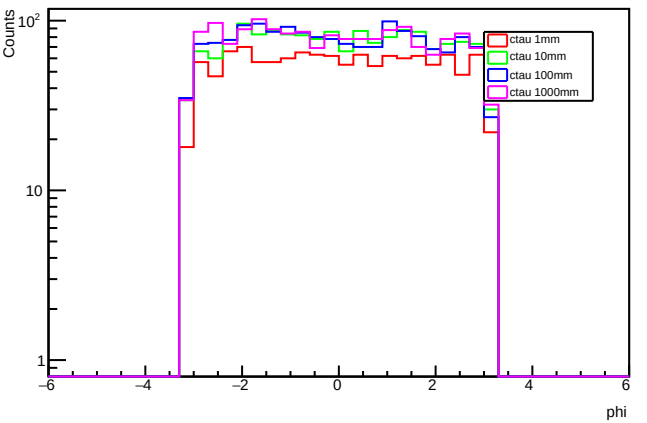
reco leading Mu phi: n_jet >=1, j1pt > 30 GeV



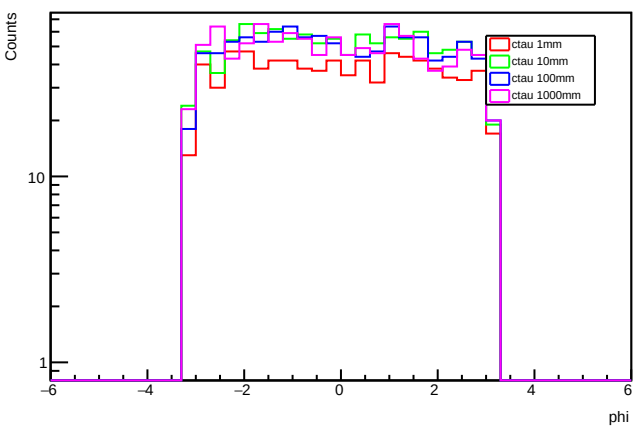
reco leading Mu phi: MET > 120 GeV



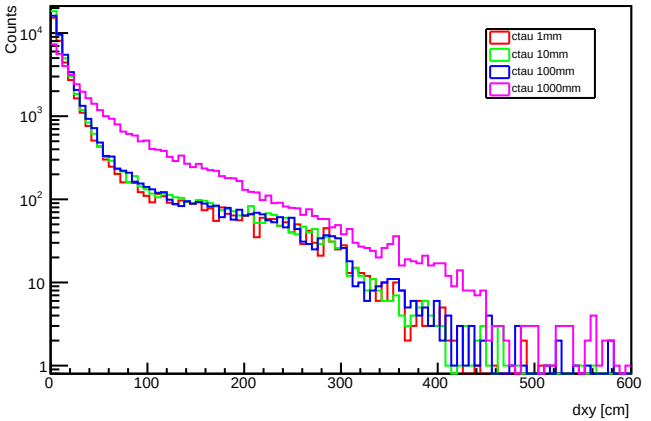
reco leading Mu phi: j1pt >120, at most 2 jets w/ pt >30 GeV



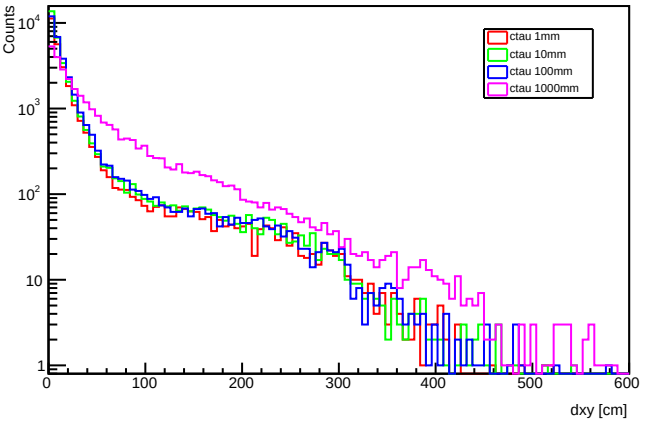
reco leading Mu phi: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



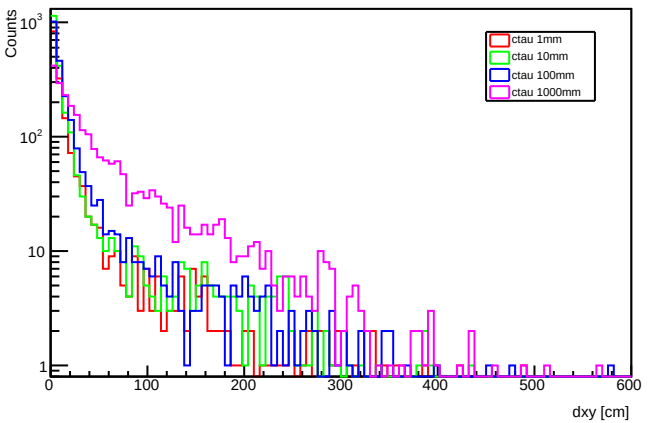
reco leading Mu vxy: no cuts



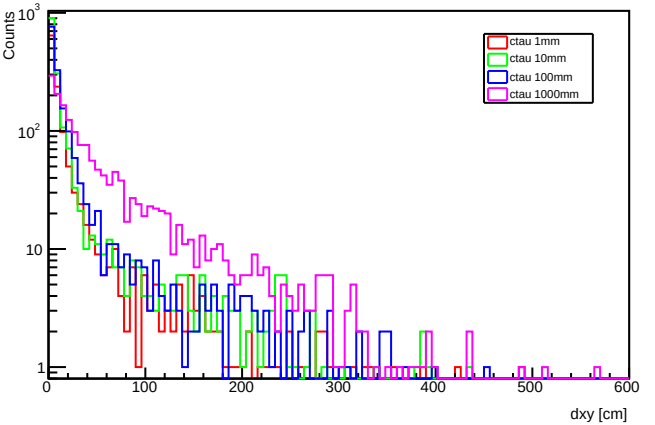
reco leading Mu vxy: n_jet >=1, j1pt > 30 GeV



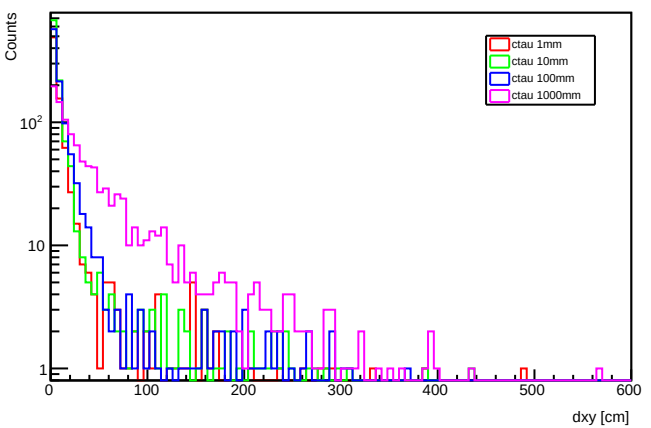
reco leading Mu vxy: MET > 120 GeV



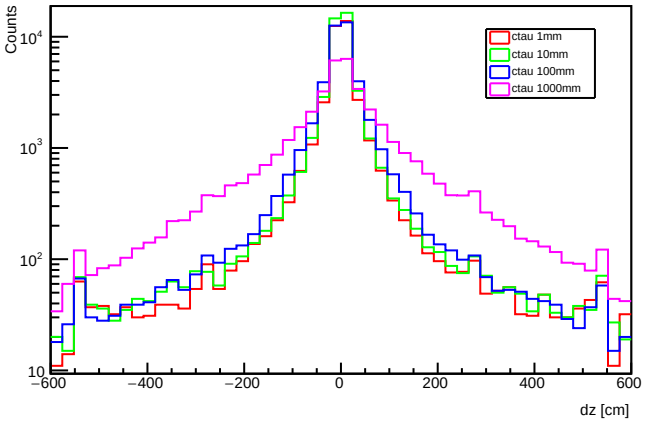
reco leading Mu vxy: j1pt >120, at most 2 jets w/ pt >30 GeV



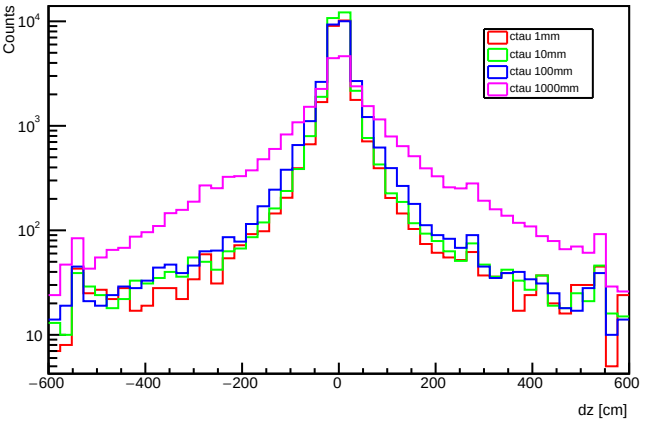
reco leading Mu vxy: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



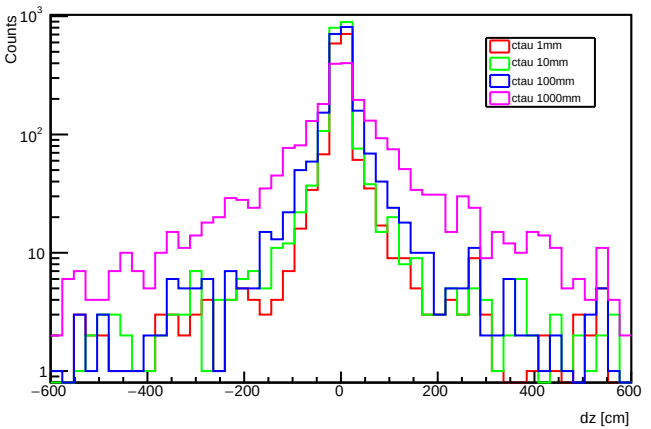
reco leading Mu vz: no cuts



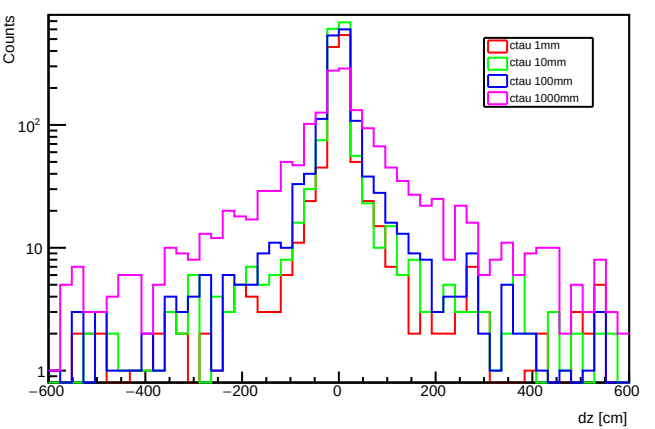
reco leading Mu vz: n_jet >=1, j1pt > 30 GeV



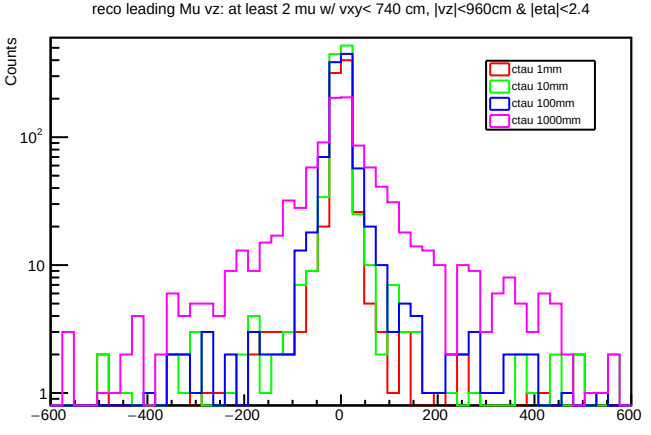
reco leading Mu vz: MET > 120 GeV



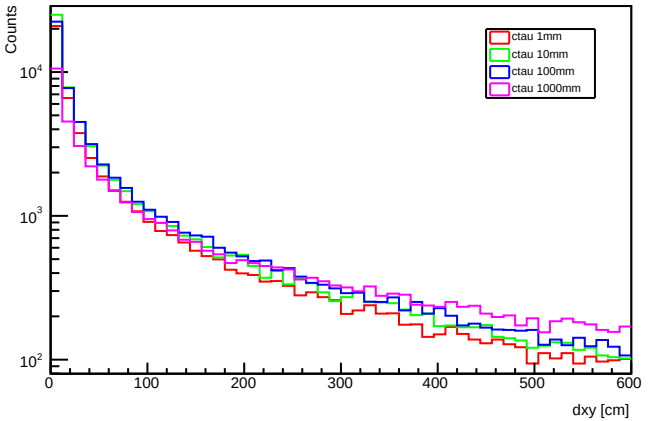
reco leading Mu vz: j1pt >120, at most 2 jets w/ pt >30 GeV



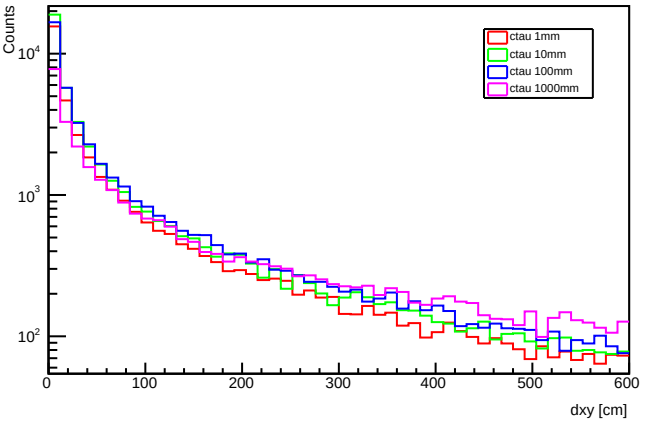
reco leading Mu vz: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



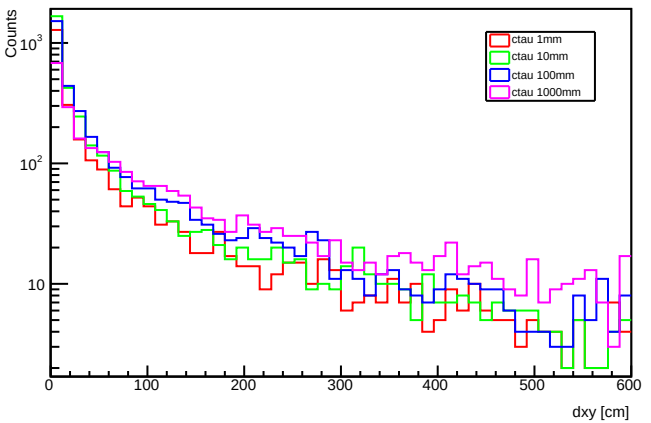
reco all Mu vxy: no cuts



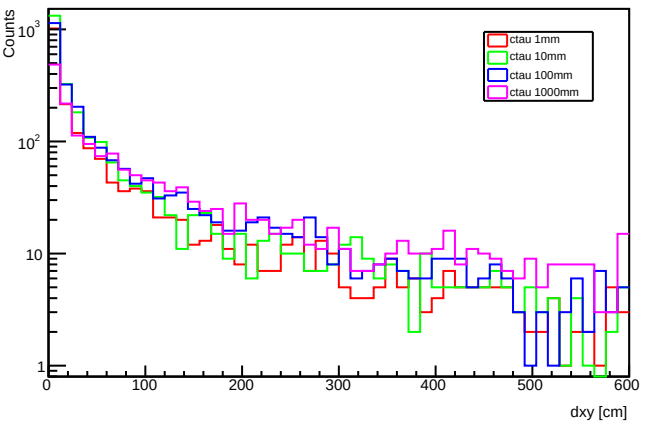
reco all Mu vxy: n_jet >=1, j1pt > 30 GeV



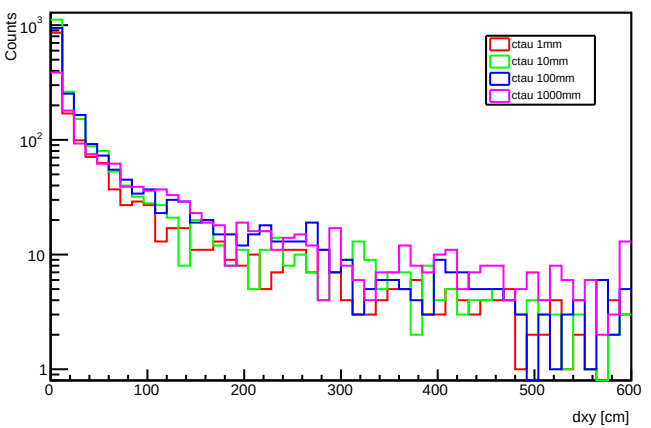
reco all Mu vxy: MET > 120 GeV



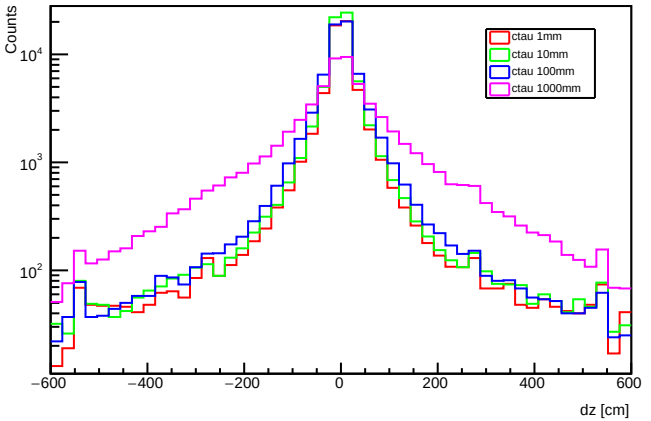
reco all Mu vxy: j1pt >120, at most 2 jets w/ pt >30 GeV



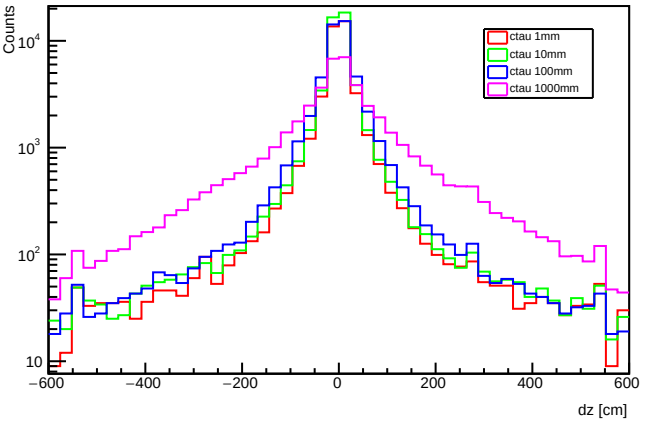
reco all Mu vxy: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



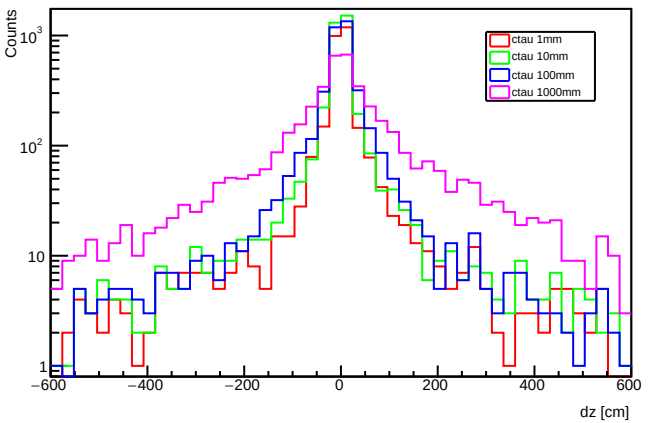
reco all Mu vz: no cuts



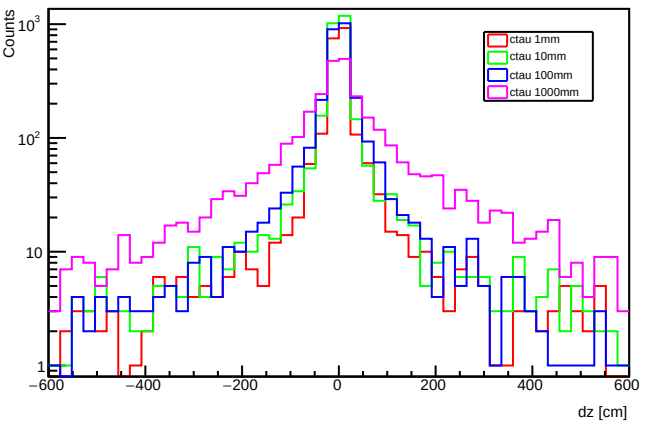
reco all Mu vz: n_jet >=1, j1pt > 30 GeV



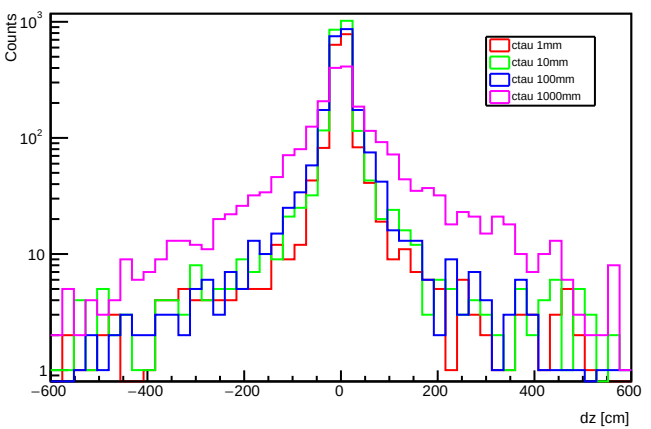
reco all Mu vz: MET > 120 GeV



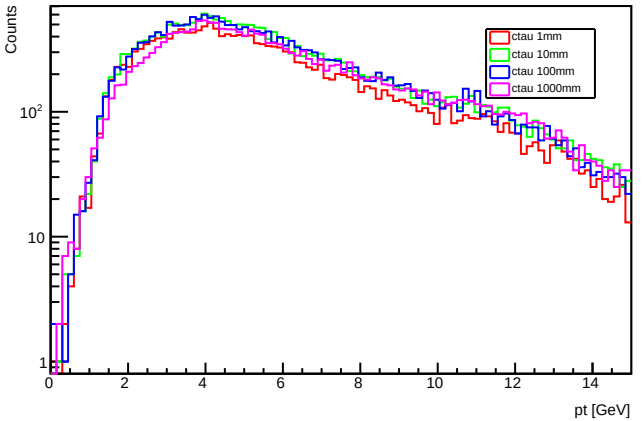
reco all Mu vz: j1pt >120, at most 2 jets w/ pt >30 GeV



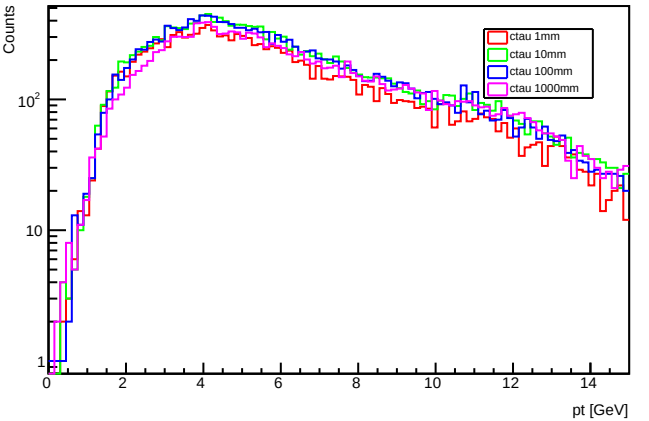
reco all Mu vz: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



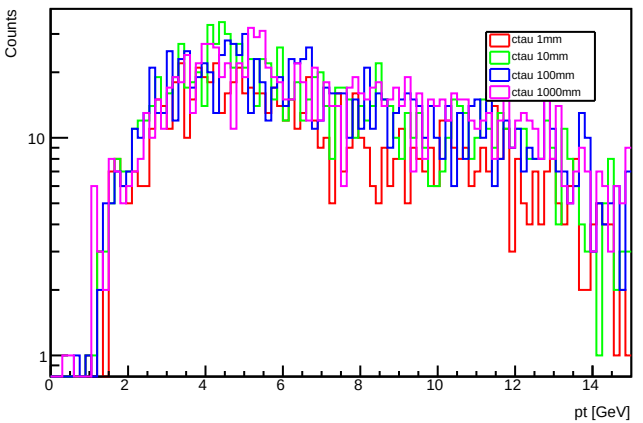
reco subleading Mu pt: no cuts



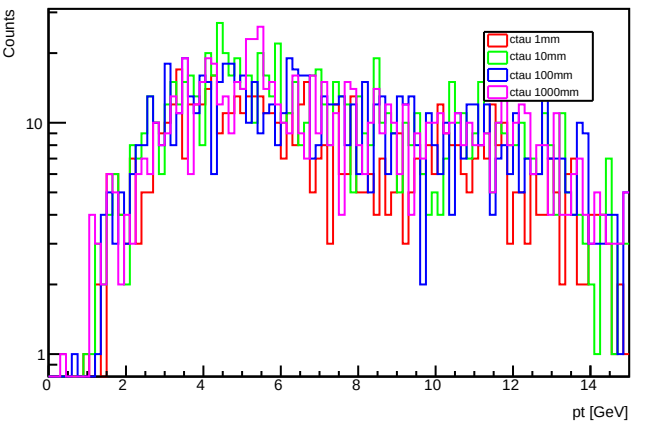
reco subleading Mu pt: n_jet >=1, j1pt > 30 GeV



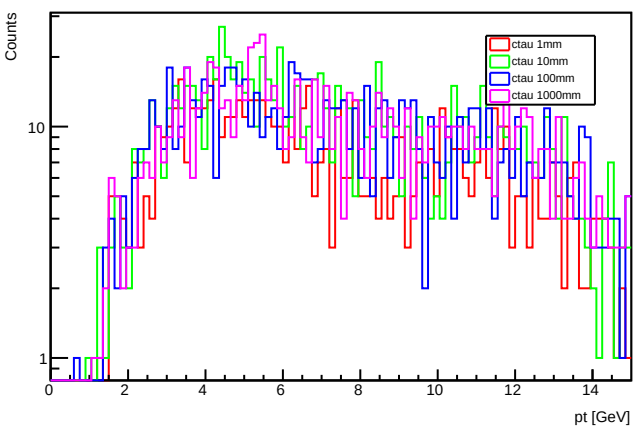
reco subleading Mu pt: MET > 120 GeV



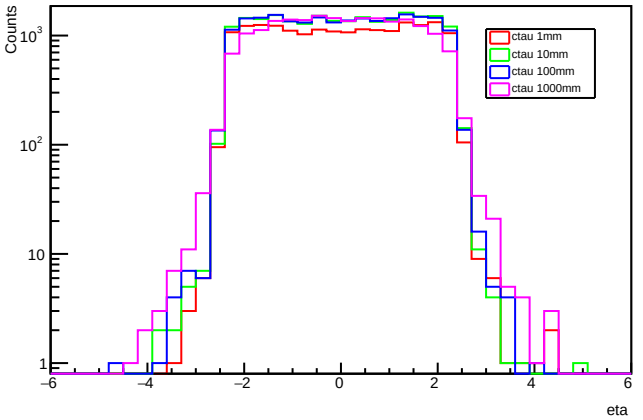
reco subleading Mu pt: j1pt >120, at most 2 jets w/ pt >30 GeV



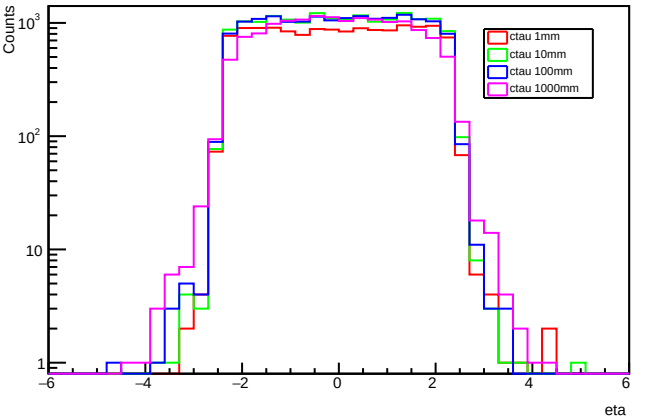
reco subleading Mu pt: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



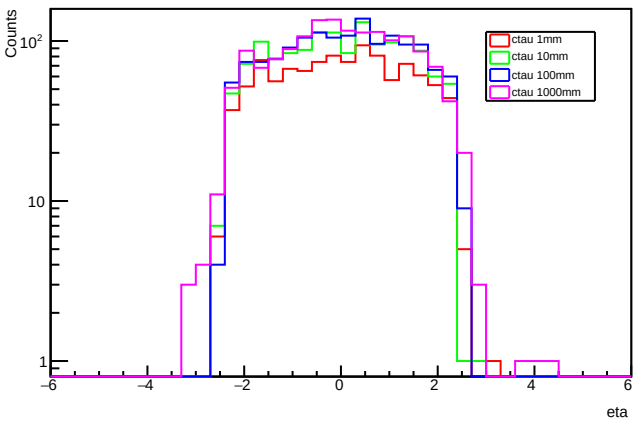
reco subleading Mu eta: no cuts



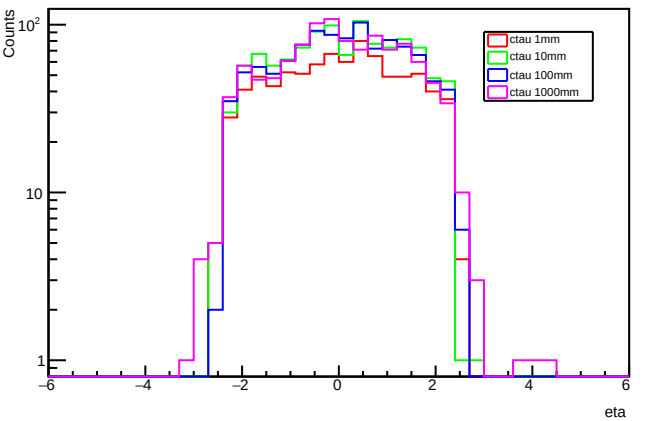
reco subleading Mu eta: n_jet >=1, j1pt > 30 GeV



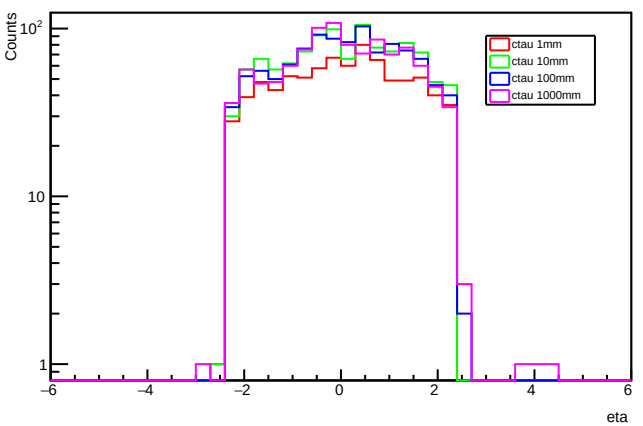
reco subleading Mu eta: MET > 120 GeV



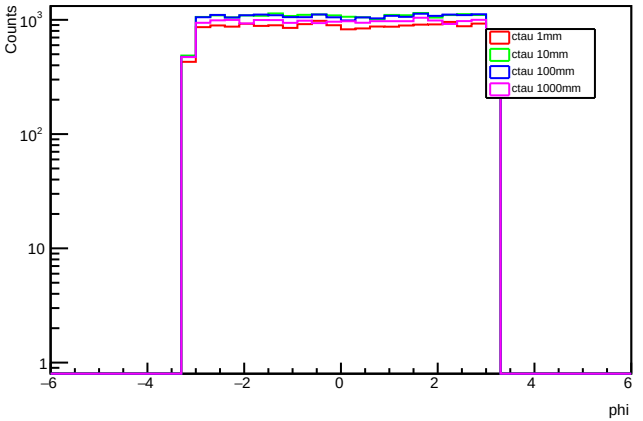
reco subleading Mu eta: j1pt >120, at most 2 jets w/ pt >30 GeV



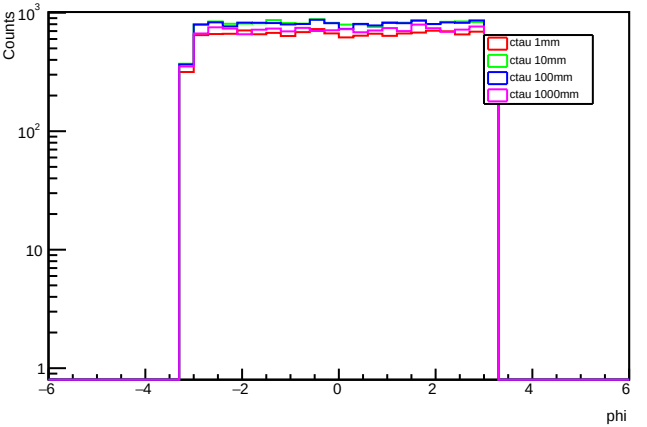
reco subleading Mu eta: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



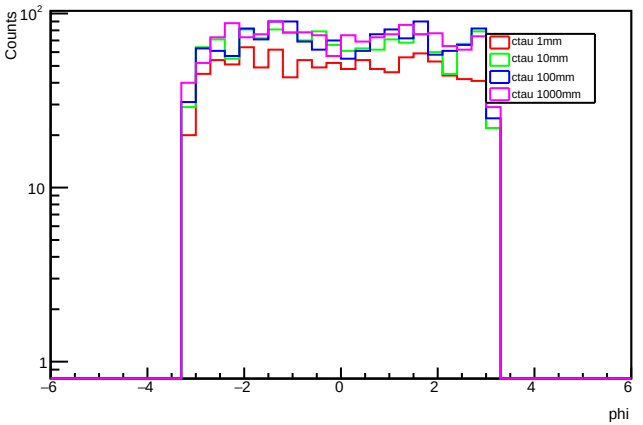
reco subleading Mu phi: no cuts



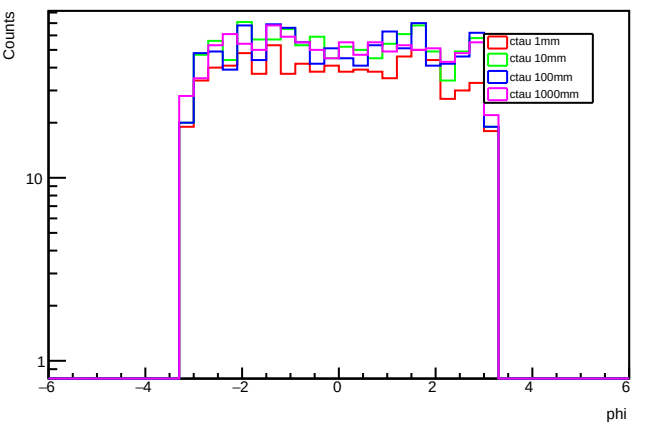
reco subleading Mu phi: n_jet >=1, j1pt > 30 GeV



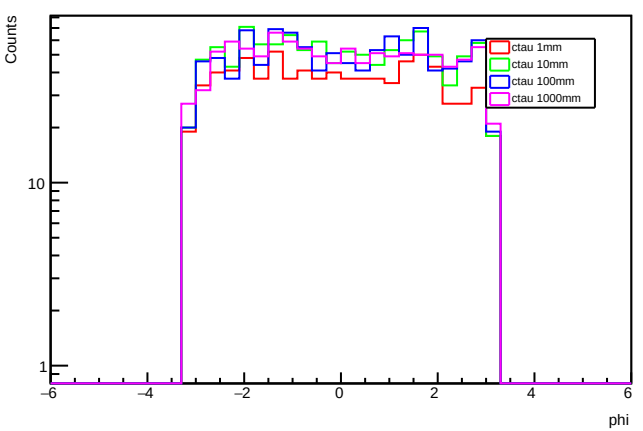
reco subleading Mu phi: MET > 120 GeV



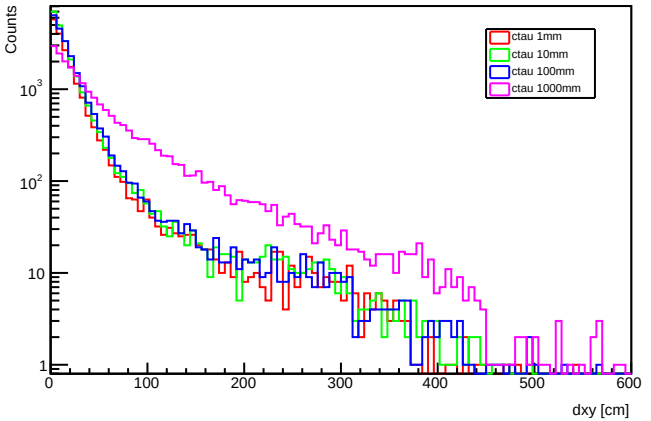
reco subleading Mu phi: j1pt >120, at most 2 jets w/ pt >30 GeV



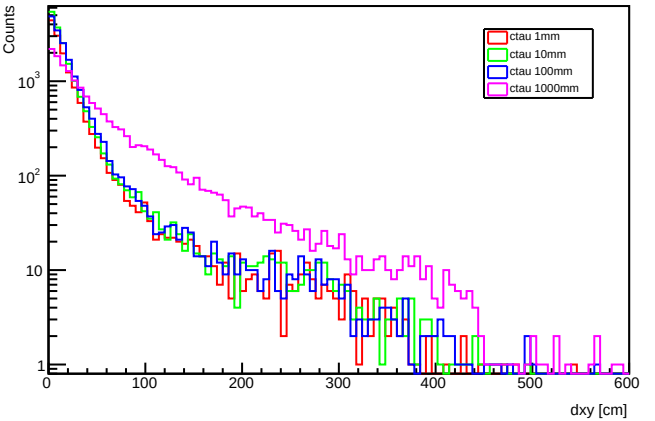
reco subleading Mu phi: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



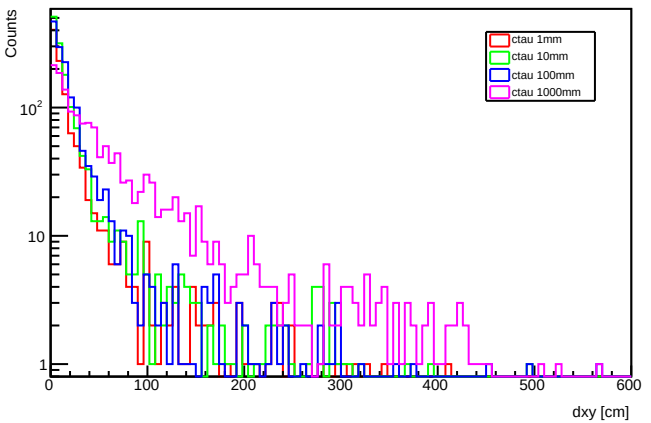
reco subleading Mu vxy: no cuts



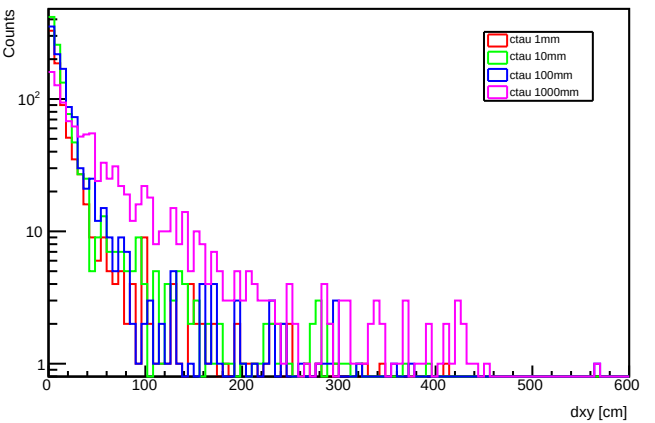
reco subleading Mu vxy: n_jet >=1, j1pt > 30 GeV



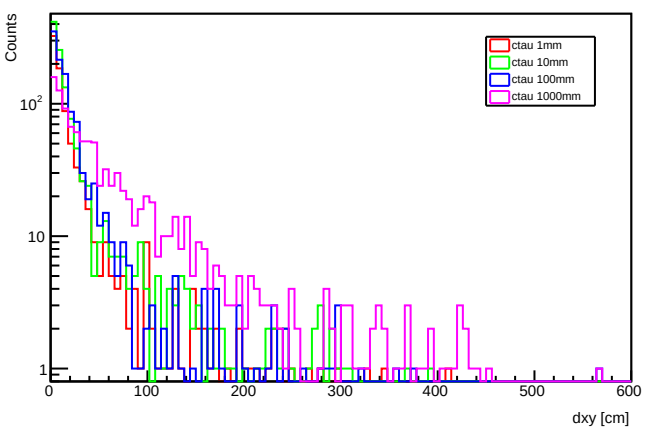
reco subleading Mu vxy: MET > 120 GeV



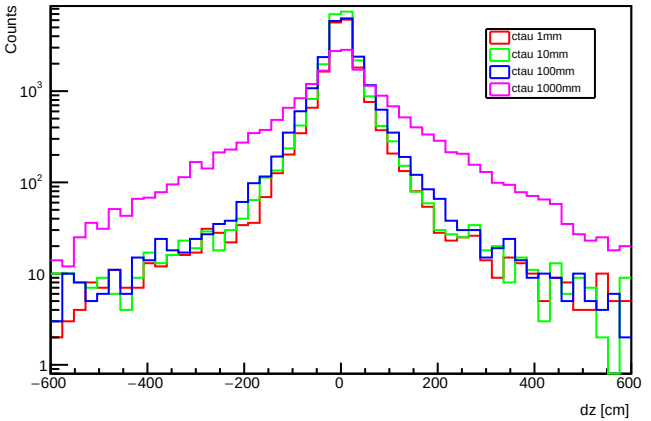
reco subleading Mu vxy: j1pt >120, at most 2 jets w/ pt >30 GeV



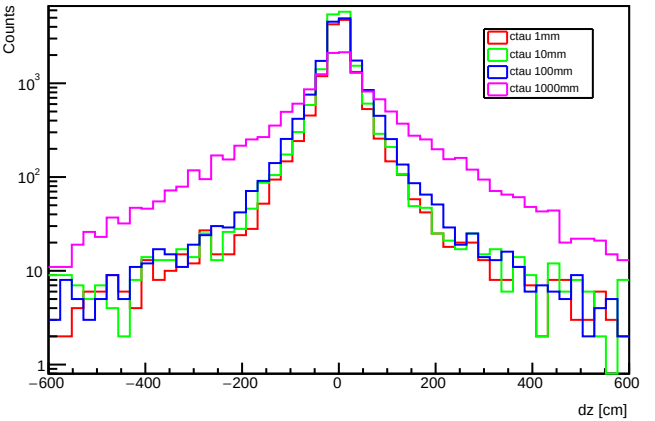
reco subleading Mu vxy: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



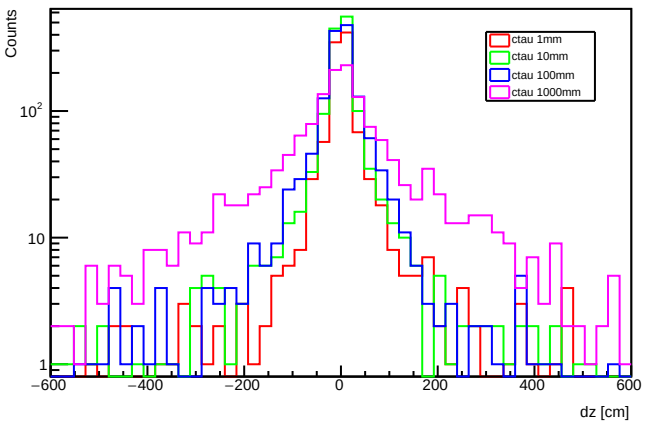
reco subleading Mu vz: no cuts



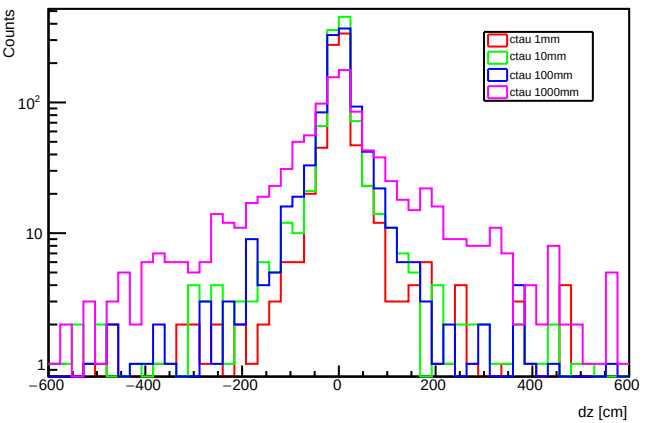
reco subleading Mu vz: n_jet >=1, j1pt > 30 GeV



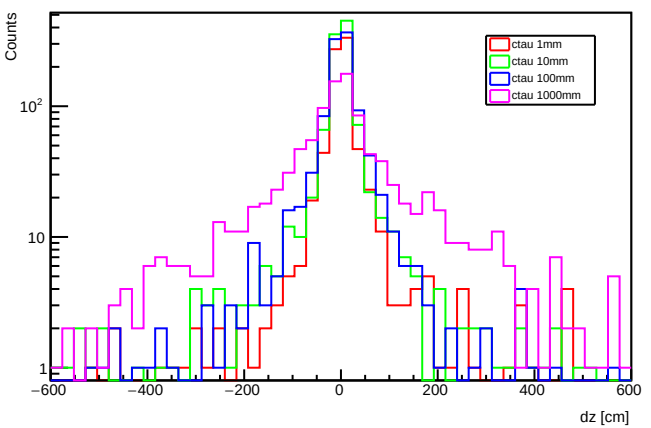
reco subleading Mu vz: MET > 120 GeV



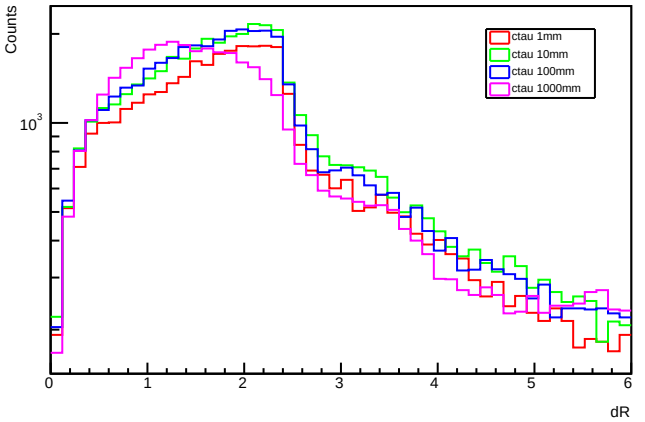
reco subleading Mu vz: j1pt >120, at most 2 jets w/ pt >30 GeV



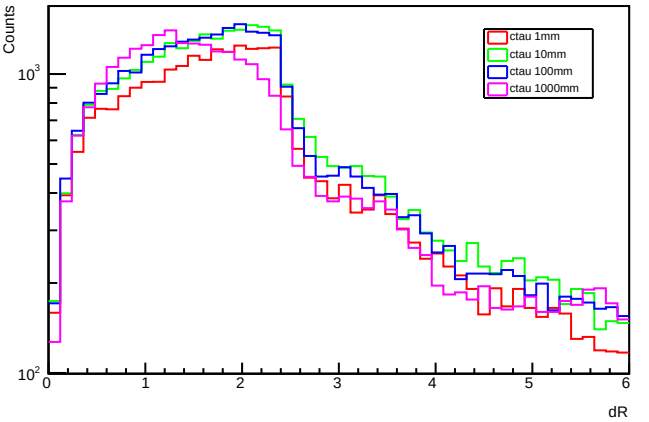
reco subleading Mu vz: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



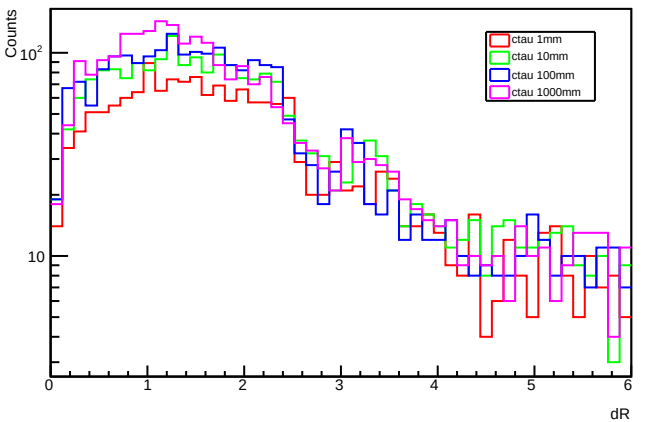
dR: reco leading mu and subleading mu: no cuts



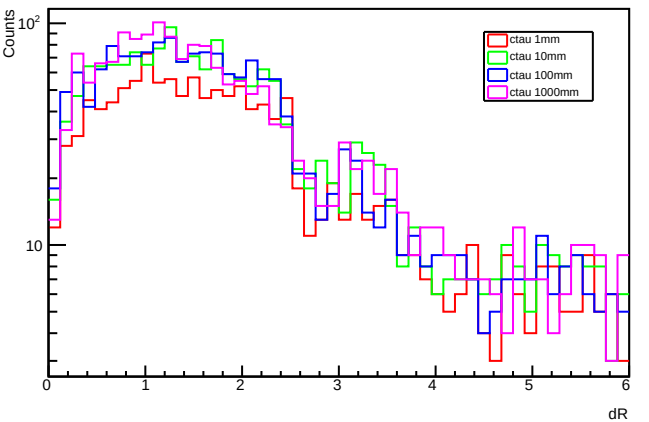
dR: reco leading mu and subleading mu: n_jet >=1, j1pt > 30 GeV



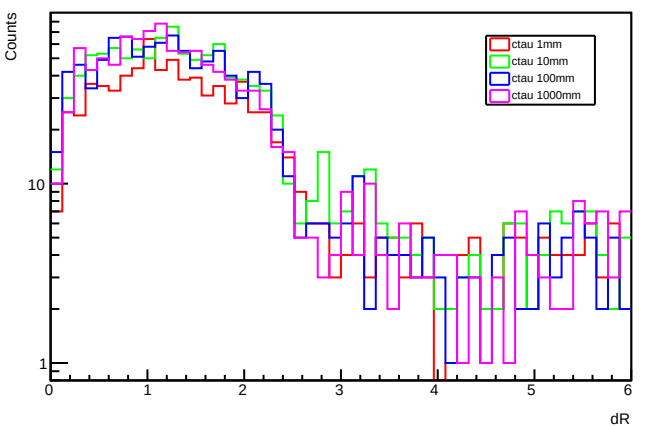
dR: reco leading mu and subleading mu: MET > 120 GeV



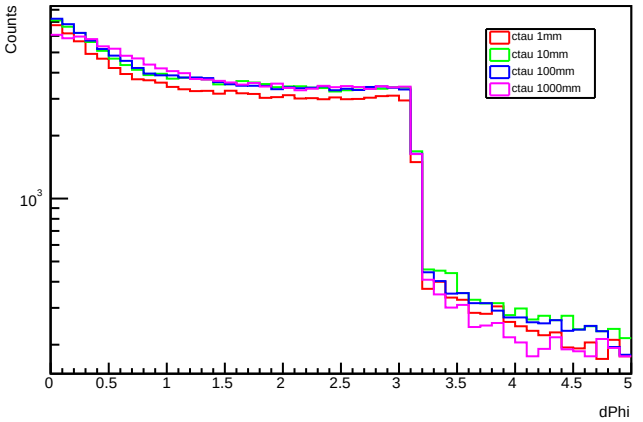
dR: reco leading mu and subleading mu: j1pt >120, at most 2 jets w/ pt >30 GeV



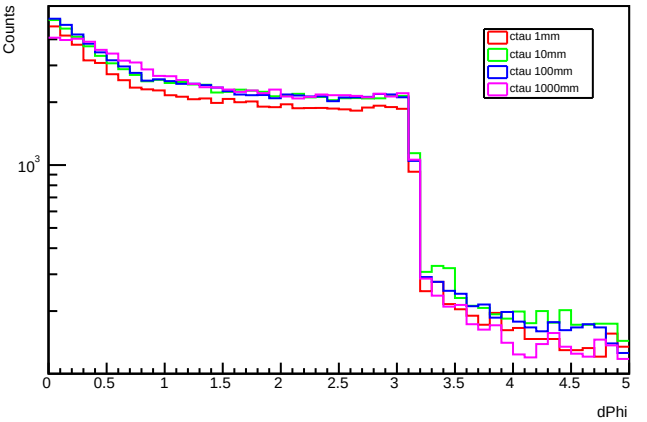
dR: reco leading mu and subleading mu: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



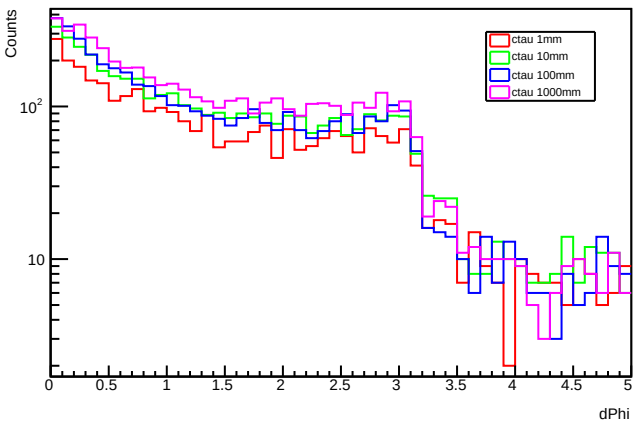
dPhi: reco MET and leading mu: no cuts



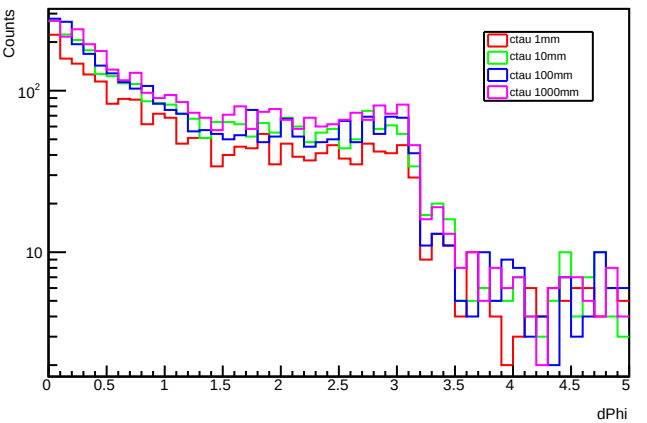
dPhi: reco MET and leading mu: n_jet >=1, j1pt > 30 GeV



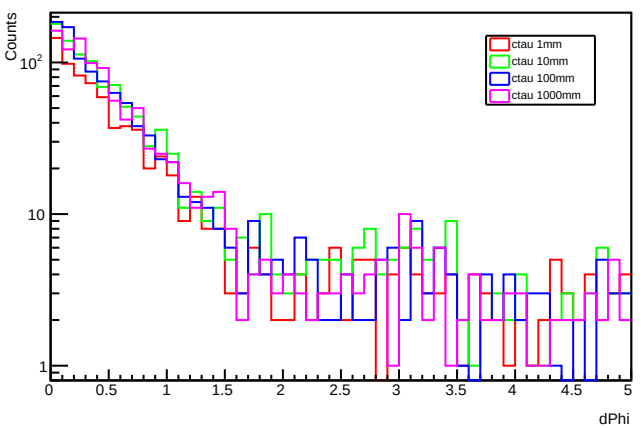
dPhi: reco MET and leading mu: MET > 120 GeV



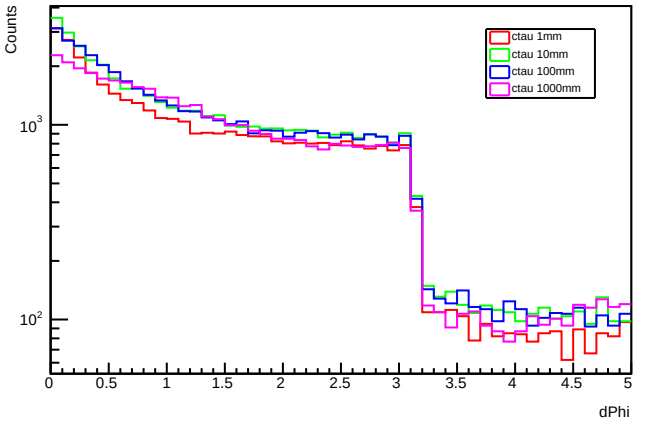
dPhi: reco MET and leading mu: j1pt >120, at most 2 jets w/ pt >30 GeV



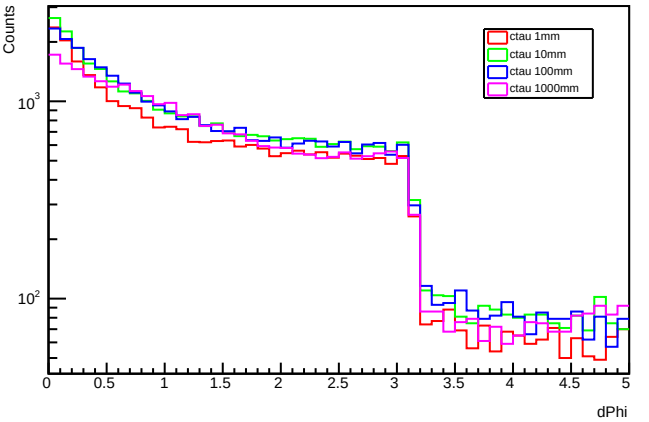
dPhi: reco MET and leading mu: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



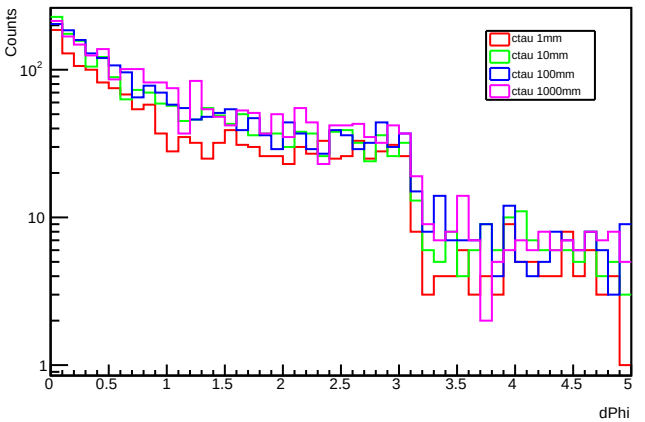
dPhi: reco leading mu and subleading mu: no cuts



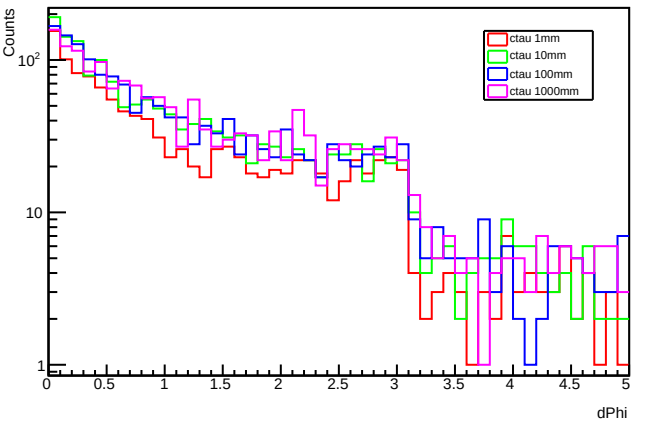
dPhi: reco leading mu and subleading mu: n_jet >=1, j1pt > 30 GeV



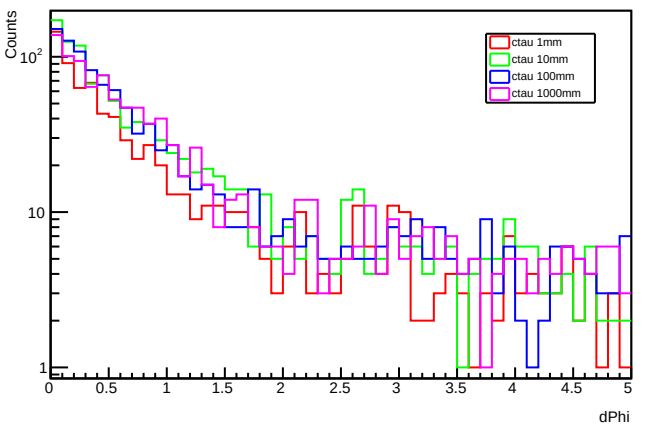
dPhi: reco leading mu and subleading mu: MET > 120 GeV



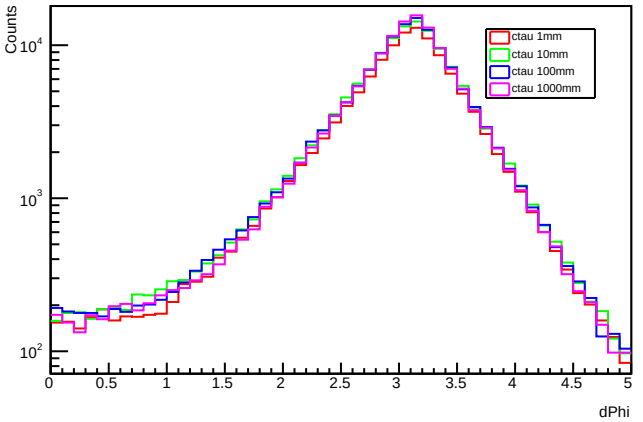
dPhi: reco leading mu and subleading mu: j1pt >120, at most 2 jets w/ pt >30 GeV



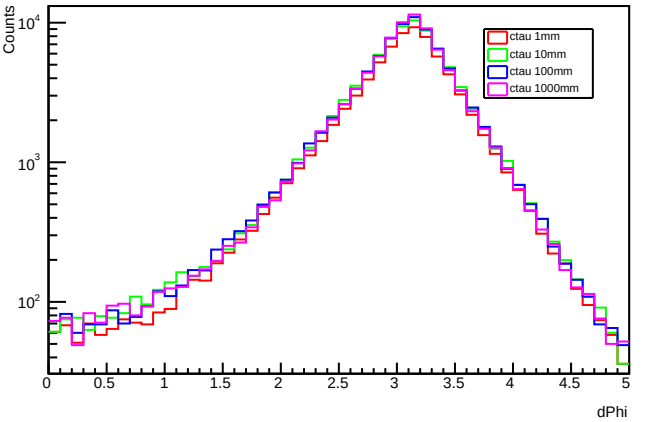
dPhi: reco leading mu and subleading mu: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



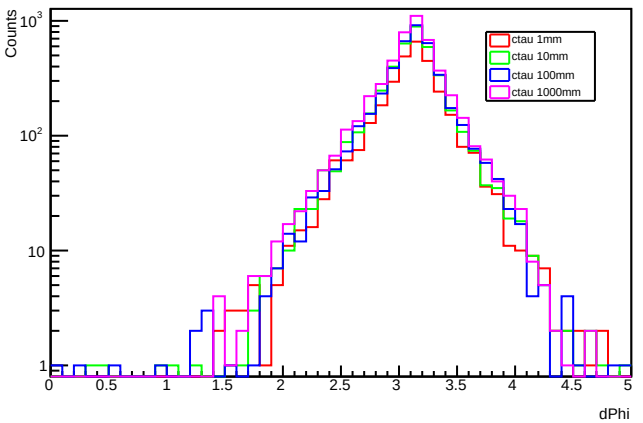
dPhi: reco MET and leading jet: no cuts



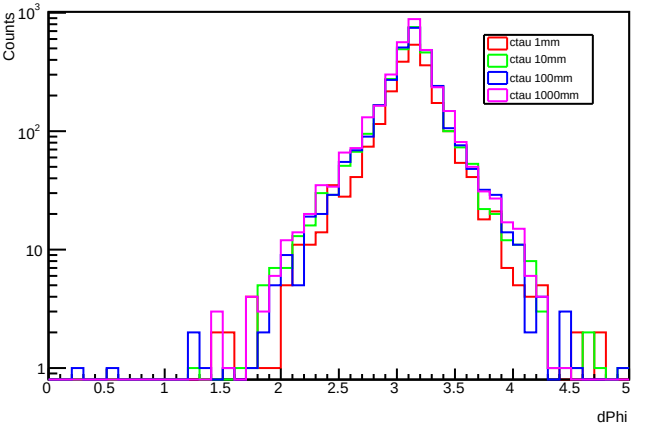
dPhi: reco MET and leading jet: n_jet >=1, j1pt > 30 GeV



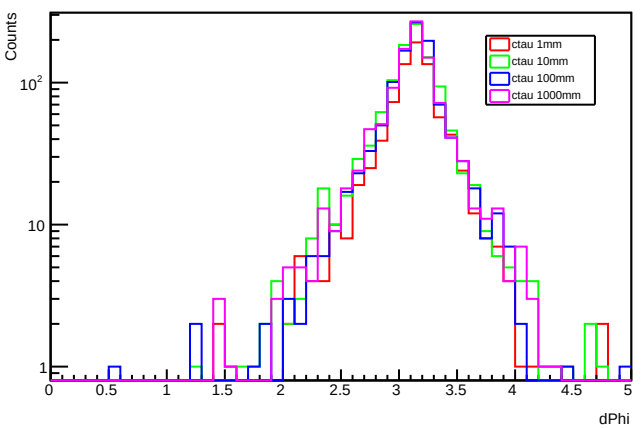
dPhi: reco MET and leading jet: MET > 120 GeV



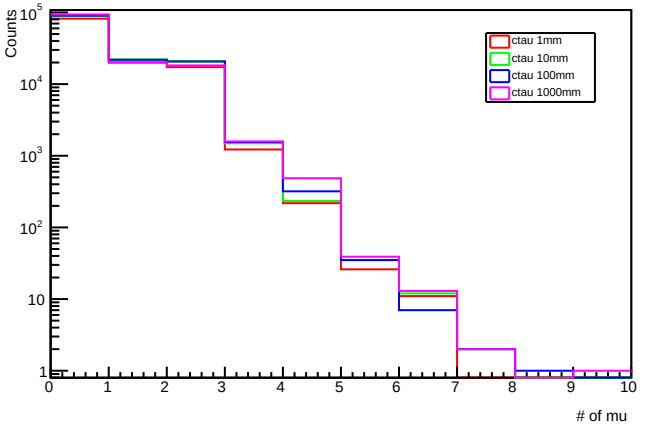
dPhi: reco MET and leading jet: j1pt >120, at most 2 jets w/ pt >30 GeV



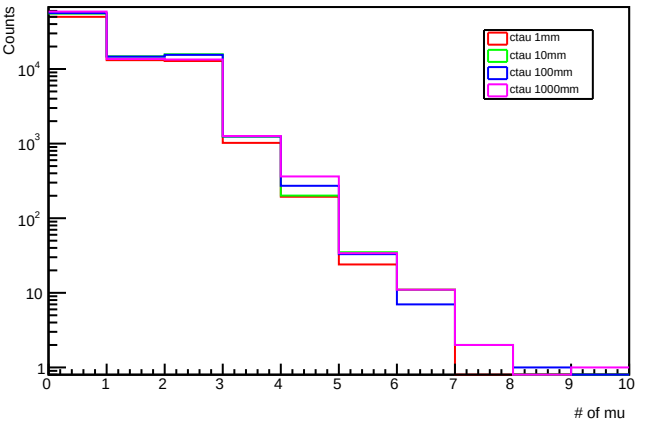
dPhi: reco MET and leading jet: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



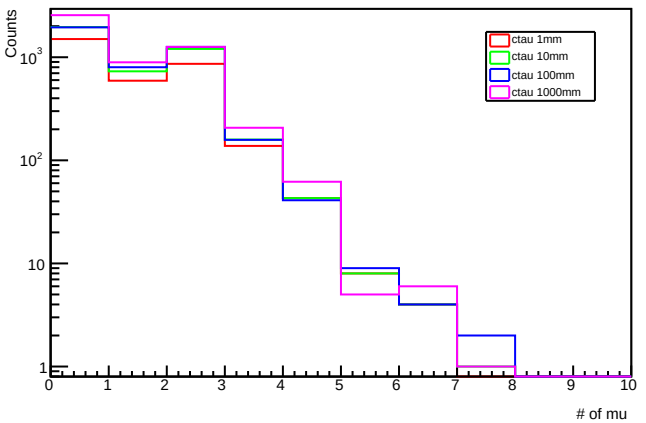
reco number of mu: no cuts



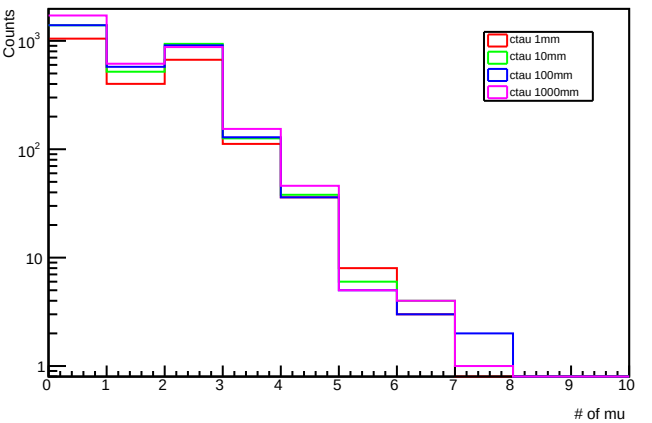
reco number of mu: n_jet >=1, j1pt > 30 GeV



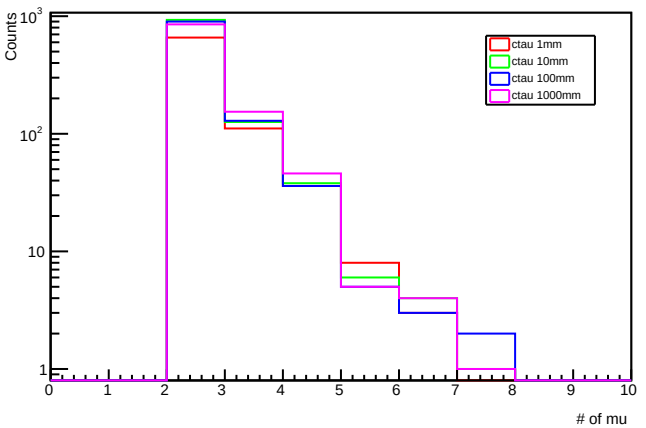
reco number of mu: MET > 120 GeV



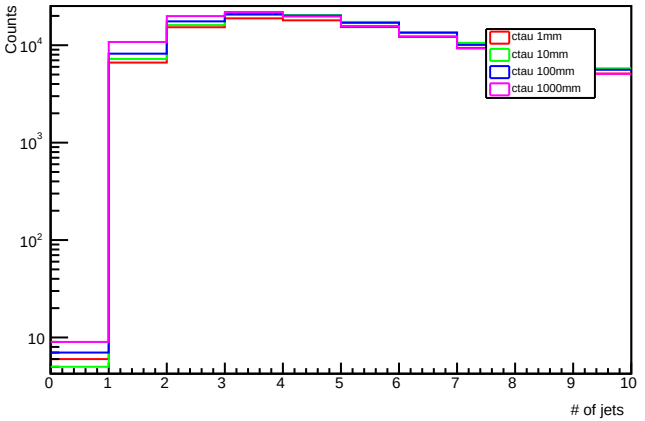
reco number of mu: j1pt >120, at most 2 jets w/ pt >30 GeV



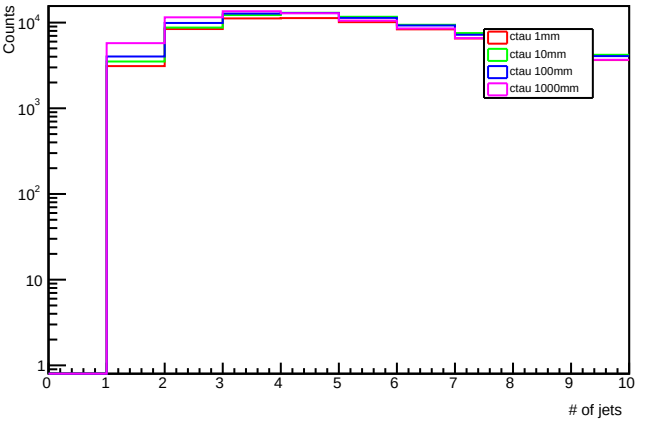
reco number of mu: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



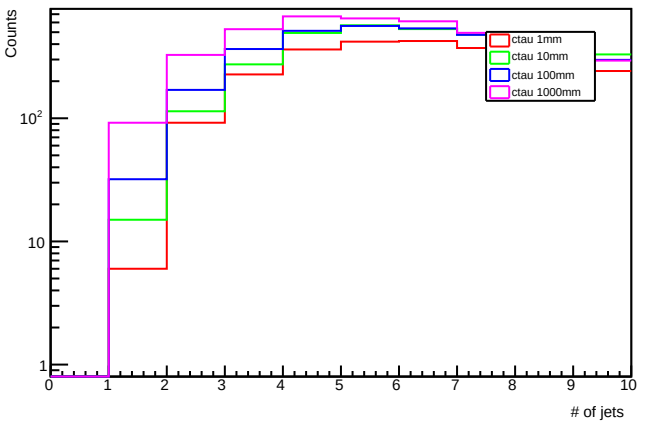
reco number of jets: no cuts



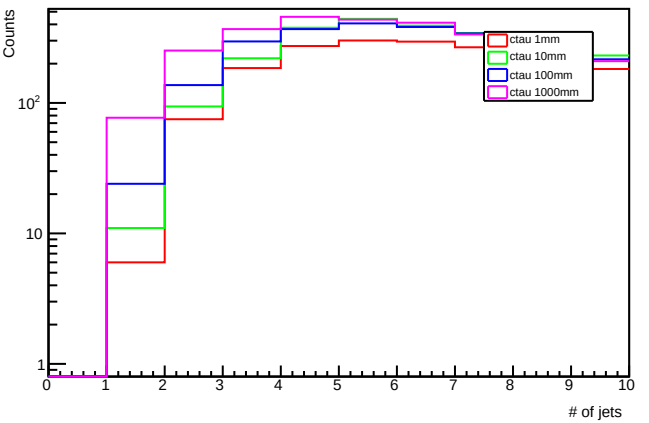
reco number of jets: n_jet >=1, j1pt > 30 GeV



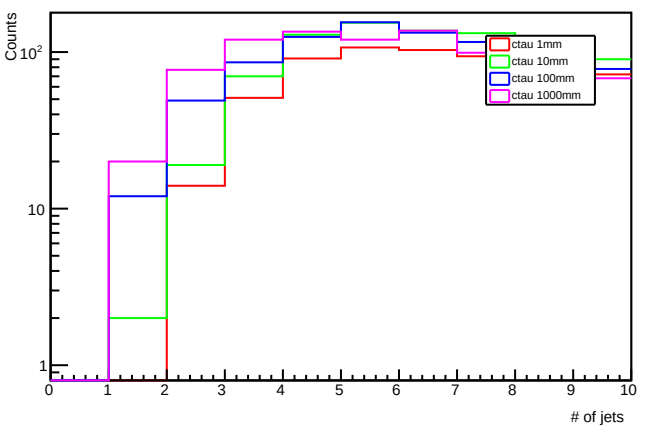
reco number of jets: MET > 120 GeV



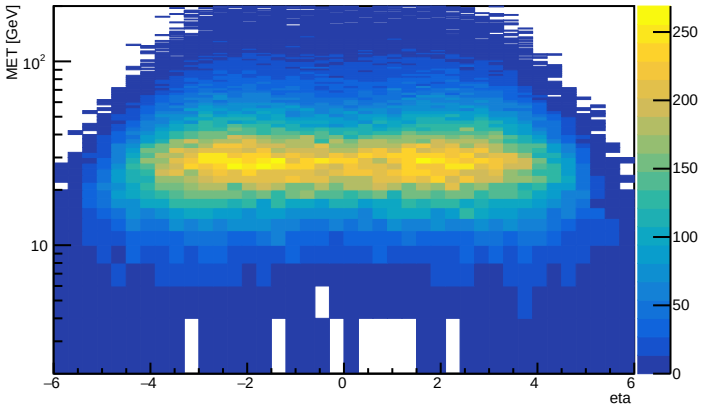
reco number of jets: j1pt >120, at most 2 jets w/ pt >30 GeV



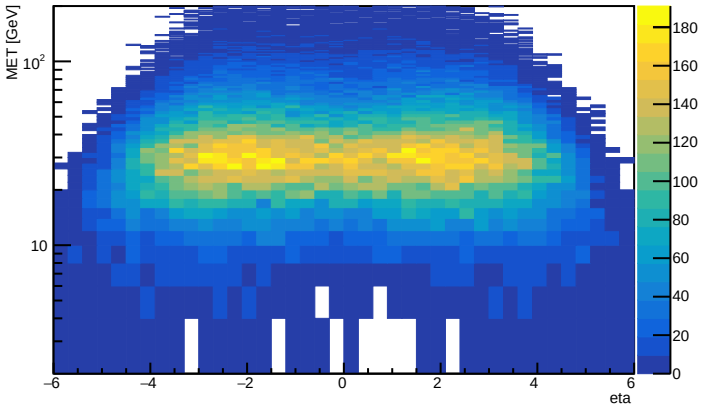
reco number of jets: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



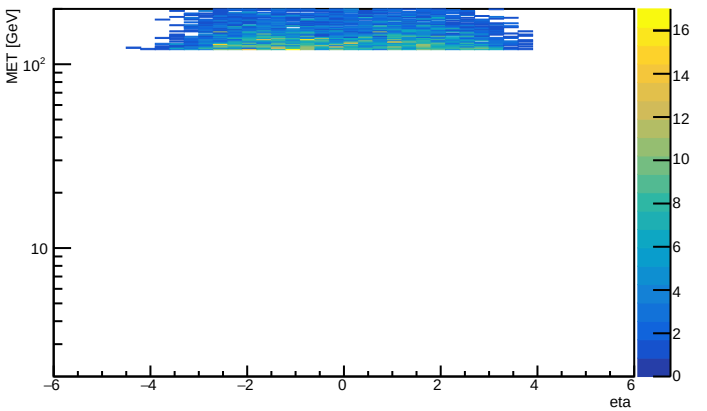
ctau 1mm gen leading Met eta vs pt: no cuts



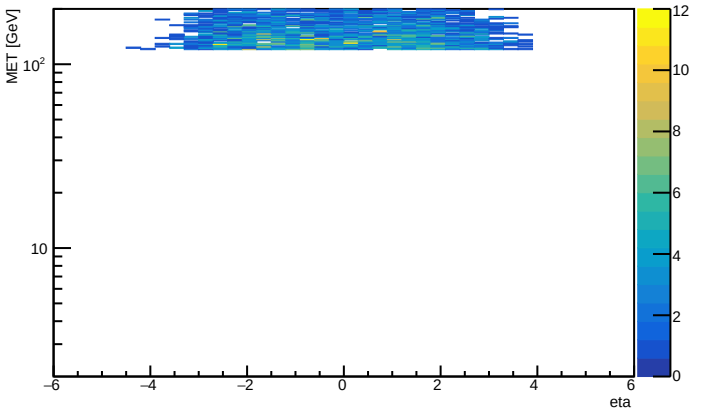
ctau 1mm gen leading Met eta vs pt: n_jet >=1, j1pt > 30 GeV



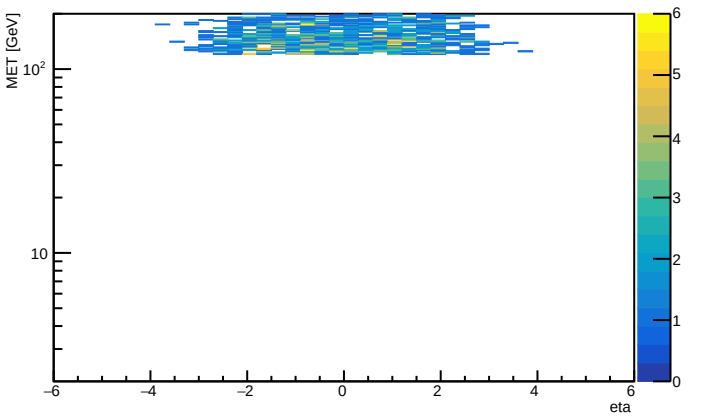
ctau 1mm gen leading Met eta vs pt: MET > 120 GeV

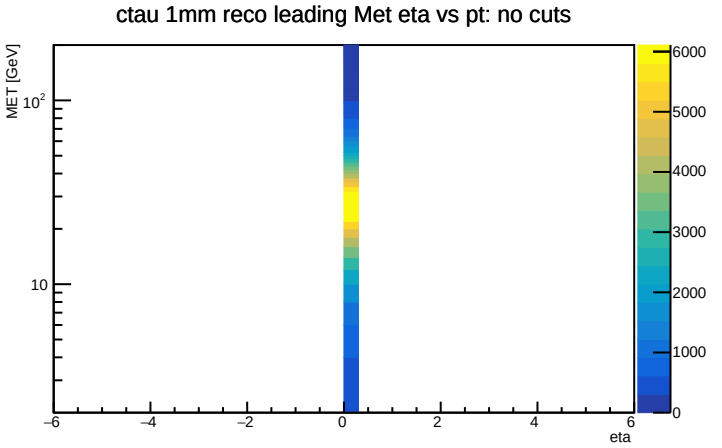


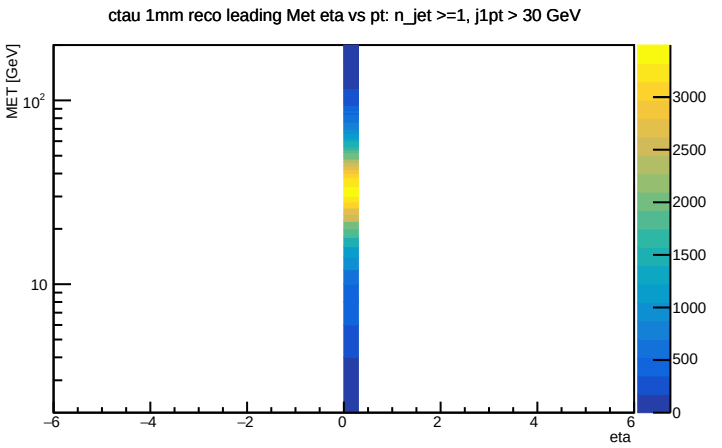
ctau 1mm gen leading Met eta vs pt: j1pt >120, at most 2 jets w/ pt >30 GeV

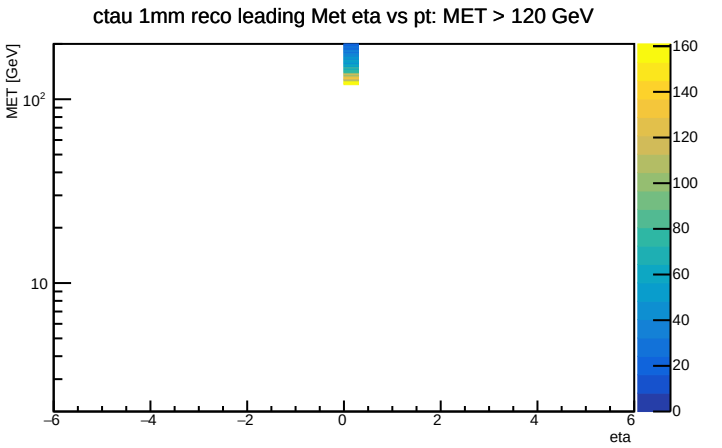


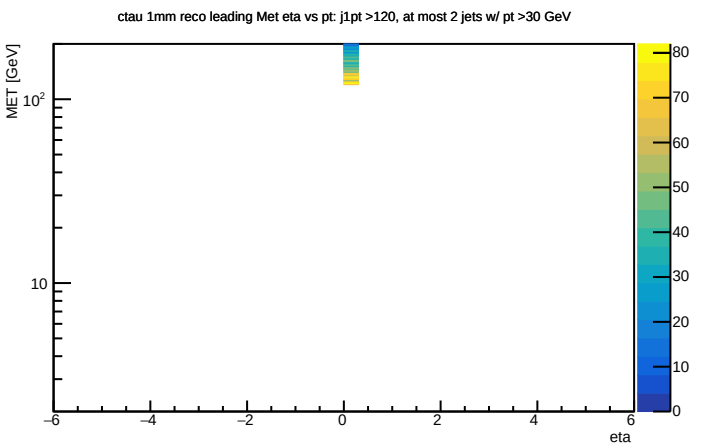
ctau 1mm gen leading Met eta vs pt: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4

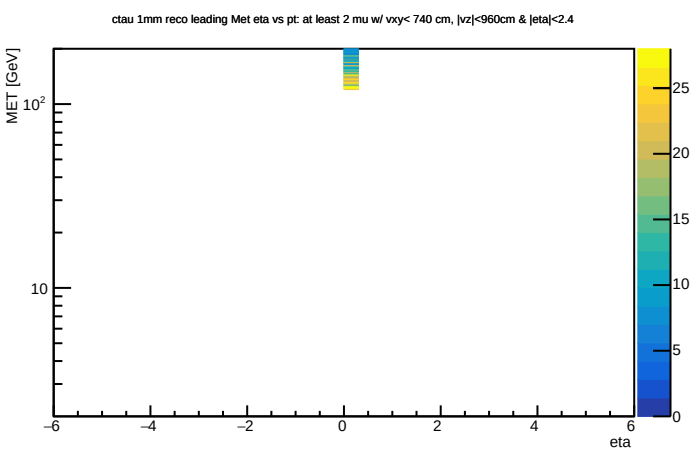



ctau 1mm reco leading Met eta vs pt: no cuts
MET [GeV]
10^2
10
−6
−4
−2
0
2
4
6
eta
6000
5000
4000
3000
2000
1000
0

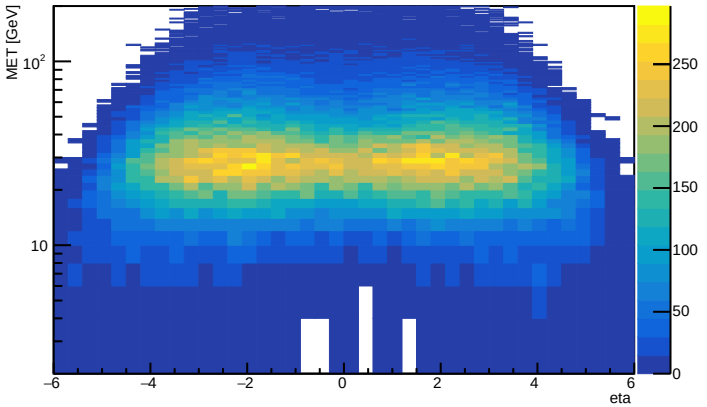

ctau 1mm reco leading Met eta vs pt: n_jet >=1, j1pt > 30 GeV
MET [GeV]
10^2
10
−6
−4
−2
0
2
4
6
eta
3000
2500
2000
1500
1000
500
0


ctau 1mm reco leading Met eta vs pt: MET > 120 GeV
MET [GeV]
10^2
10
−6
−4
−2
0
2
4
6
eta
160
140
120
100
80
60
40
20
0

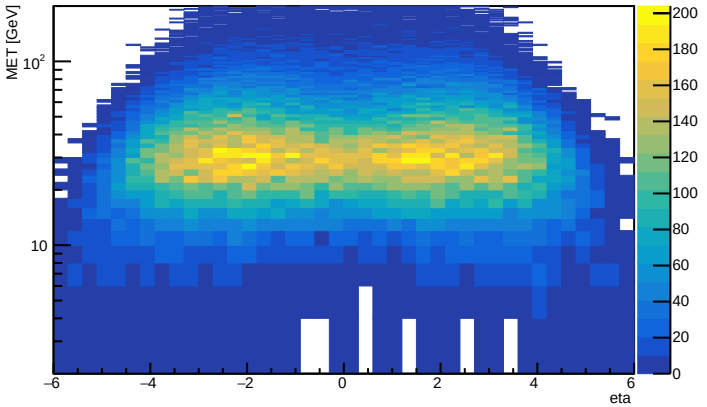

ctau 1mm reco leading Met eta vs pt: j1pt >120, at most 2 jets w/ pt >30 GeV
MET [GeV]
10^2
10
−6
−4
−2
0
2
4
6
eta
80
70
60
50
40
30
20
10
0


ctau 1mm reco leading Met eta vs pt: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4
MET [GeV]
10^2
10
−6
−4
−2
0
2
4
6
eta
25
20
15
10
5
0

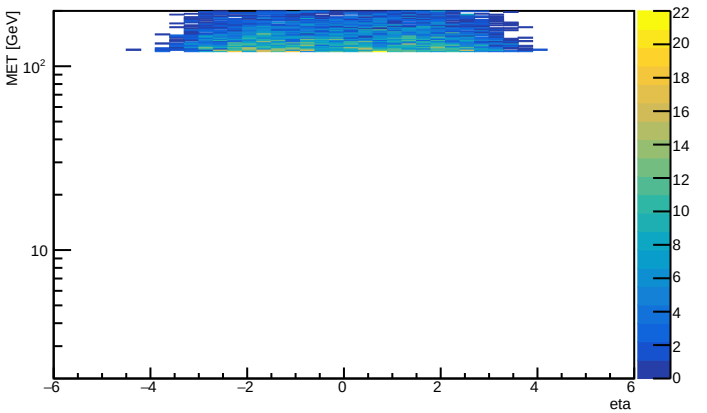
ctau 10mm gen leading Met eta vs pt: no cuts



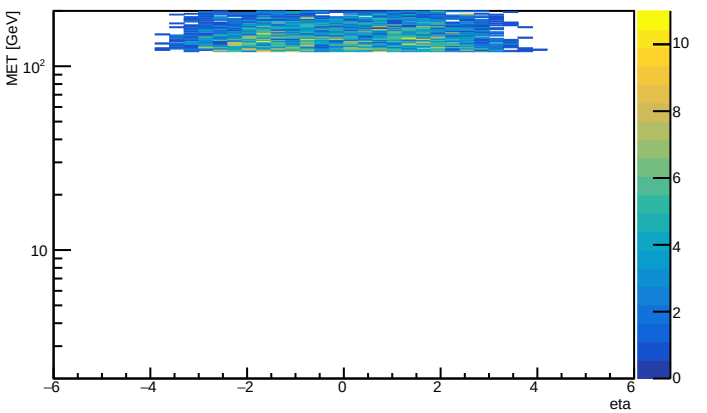
ctau 10mm gen leading Met eta vs pt: n_jet >=1, j1pt > 30 GeV



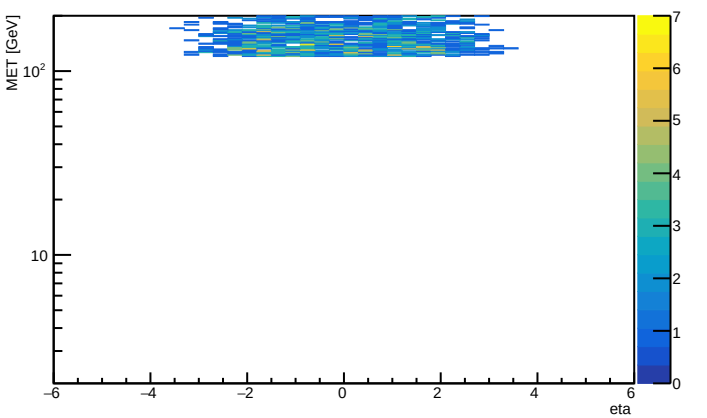
ctau 10mm gen leading Met eta vs pt: MET > 120 GeV



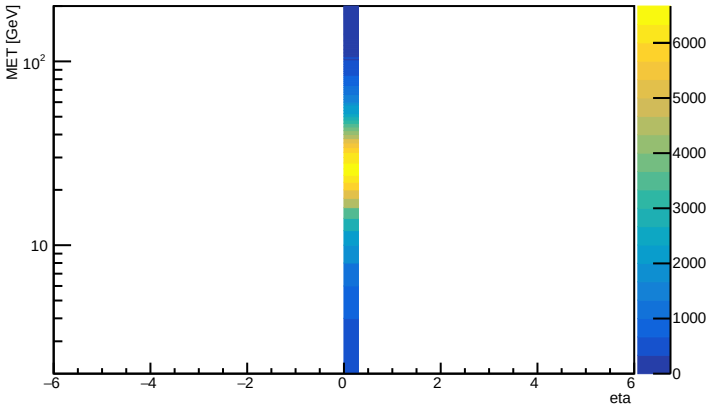
ctau 10mm gen leading Met eta vs pt: j1pt >120, at most 2 jets w/ pt >30 GeV



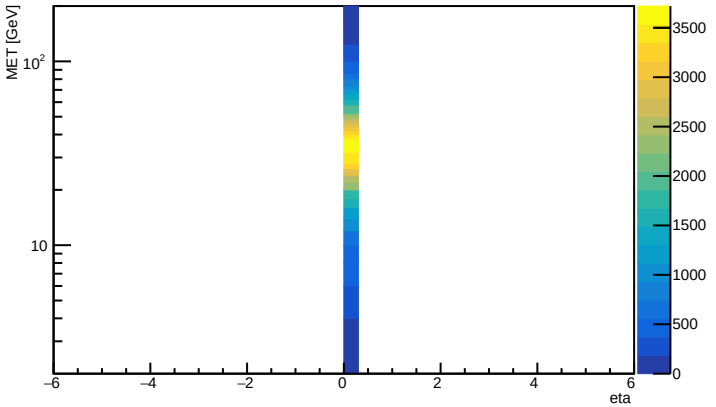
ctau 10mm gen leading Met eta vs pt: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



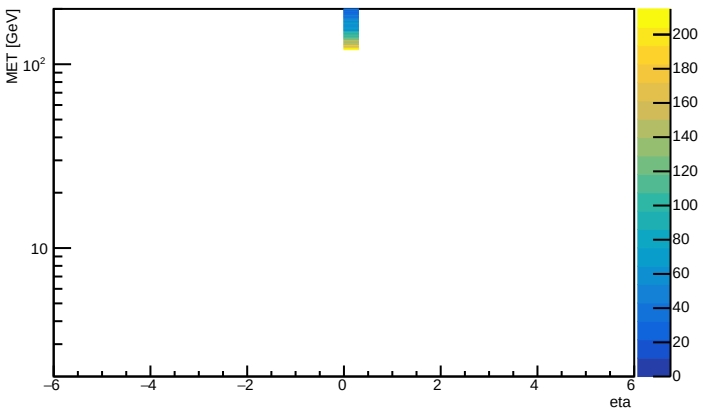
ctau 10mm reco leading Met eta vs pt: no cuts



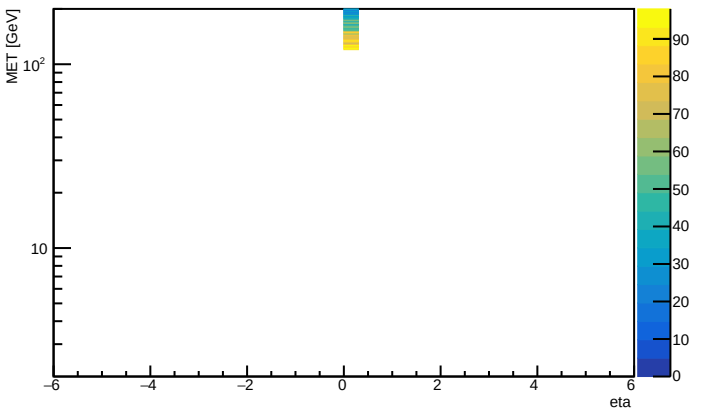
ctau 10mm reco leading Met eta vs pt: n_jet >=1, j1pt > 30 GeV



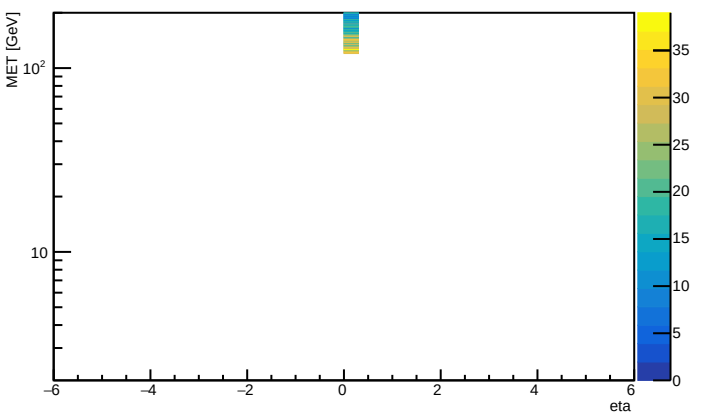
ctau 10mm reco leading Met eta vs pt: MET > 120 GeV



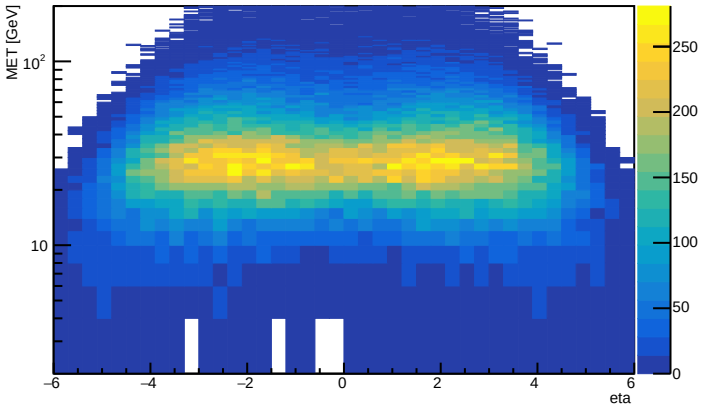
ctau 10mm reco leading Met eta vs pt: j1pt >120, at most 2 jets w/ pt >30 GeV



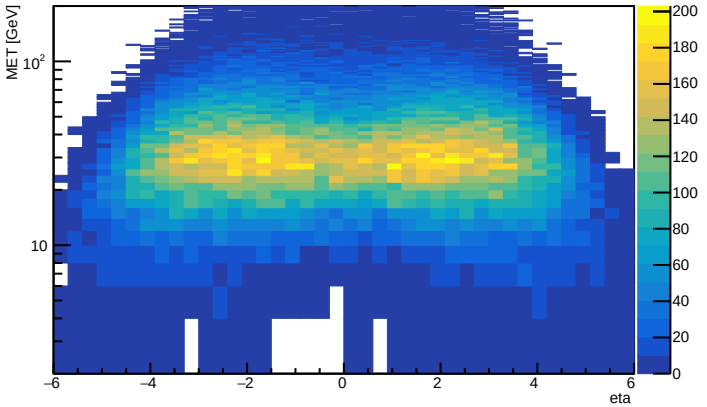
ctau 10mm reco leading Met eta vs pt: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



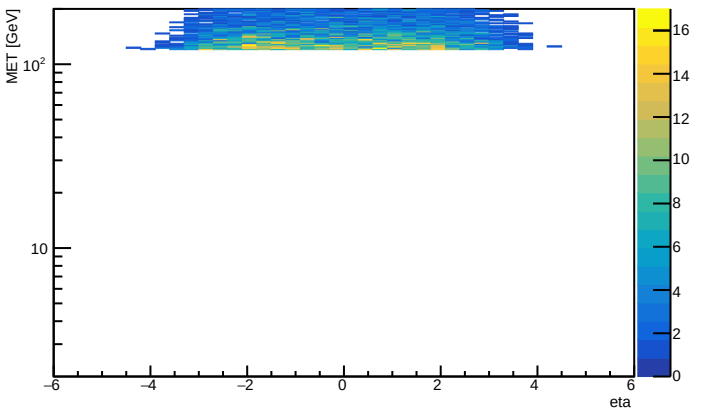
ctau 100mm gen leading Met eta vs pt: no cuts



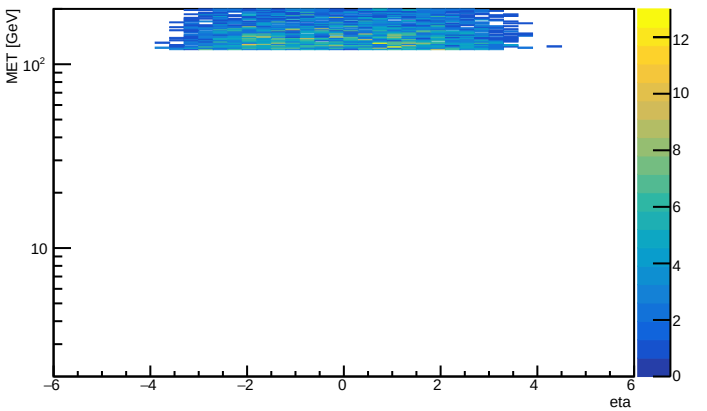
ctau 100mm gen leading Met eta vs pt: n_jet >=1, j1pt > 30 GeV



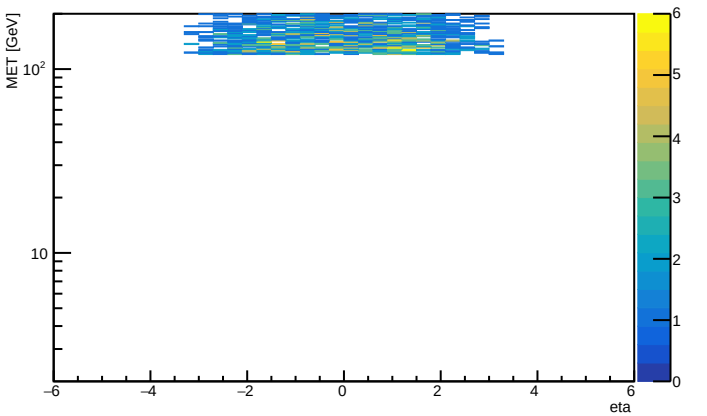
ctau 100mm gen leading Met eta vs pt: MET > 120 GeV

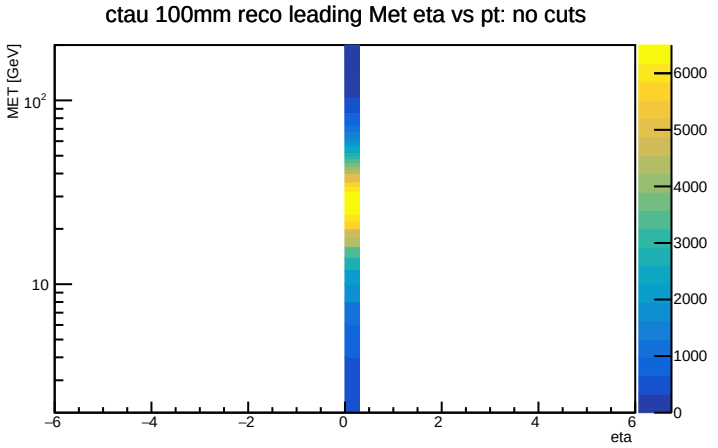


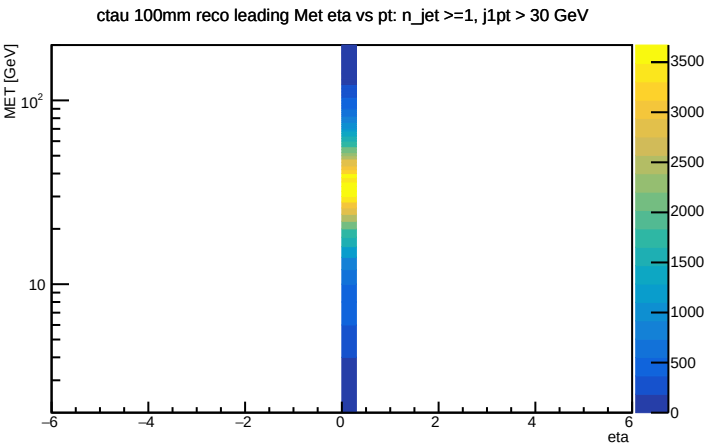
ctau 100mm gen leading Met eta vs pt: j1pt >120, at most 2 jets w/ pt >30 GeV

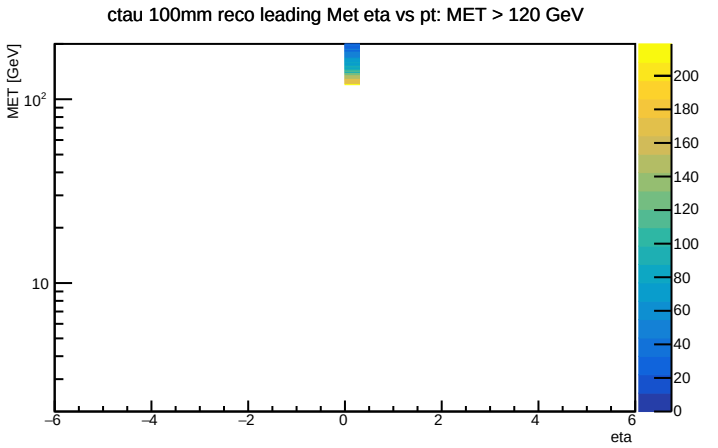


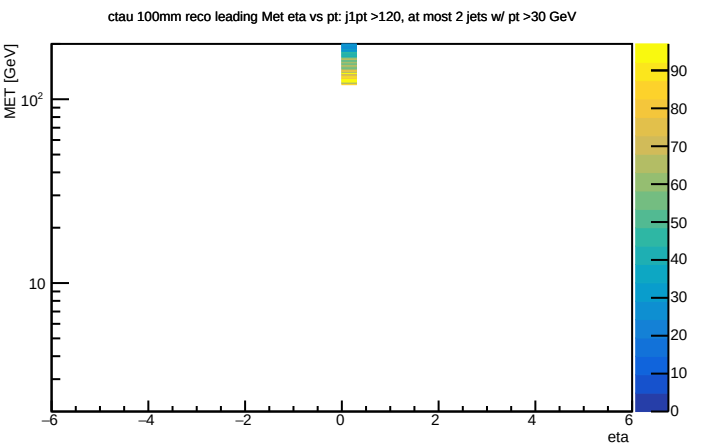
ctau 100mm gen leading Met eta vs pt: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4

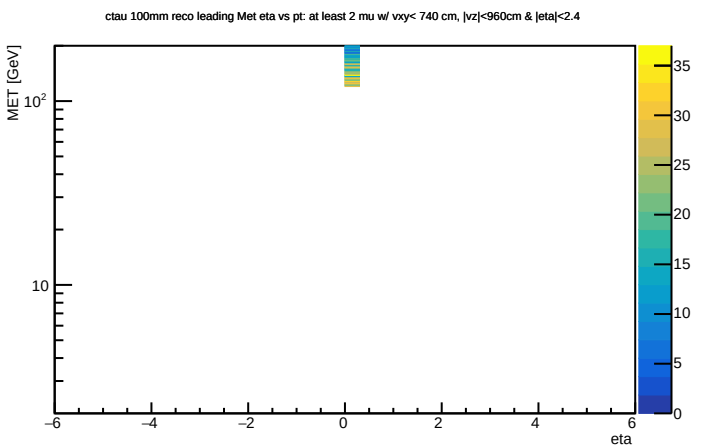



ctau 100mm reco leading Met eta vs pt: no cuts
MET [GeV]
10^2
10
−6
−4
−2
0
2
4
6
eta
6000
5000
4000
3000
2000
1000
0

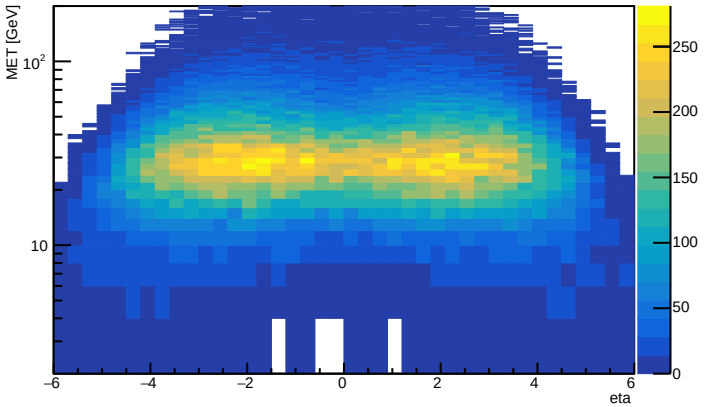

ctau 100mm reco leading Met eta vs pt: n_jet >=1, j1pt > 30 GeV
MET [GeV]
10^2
10
−6
−4
−2
0
2
4
6
eta
3500
3000
2500
2000
1500
1000
500
0


ctau 100mm reco leading Met eta vs pt: MET > 120 GeV
MET [GeV]
10^2
10
−6
−4
−2
0
2
4
6
eta
200
180
160
140
120
100
80
60
40
20
0

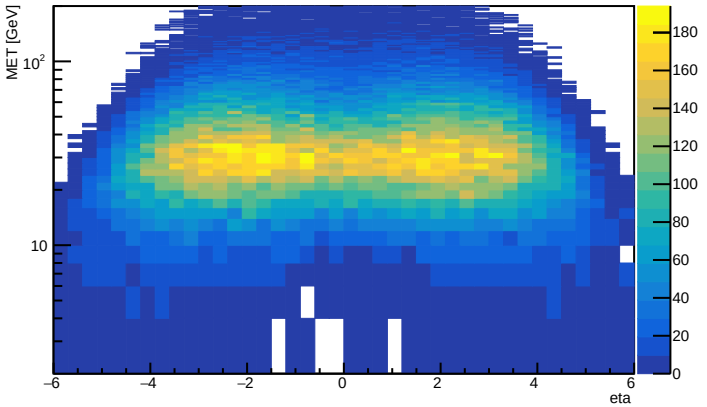

ctau 100mm reco leading Met eta vs pt: j1pt >120, at most 2 jets w/ pt >30 GeV
MET [GeV]
10^2
10
−6
−4
−2
0
2
4
6
eta
90
80
70
60
50
40
30
20
10
0


ctau 100mm reco leading Met eta vs pt: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4
MET [GeV]
10^2
10
−6
−4
−2
0
2
4
6
eta
35
30
25
20
15
10
5
0

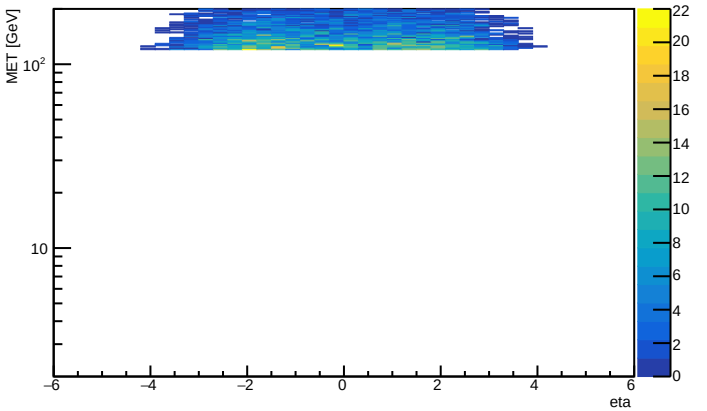
ctau 1000mm gen leading Met eta vs pt: no cuts



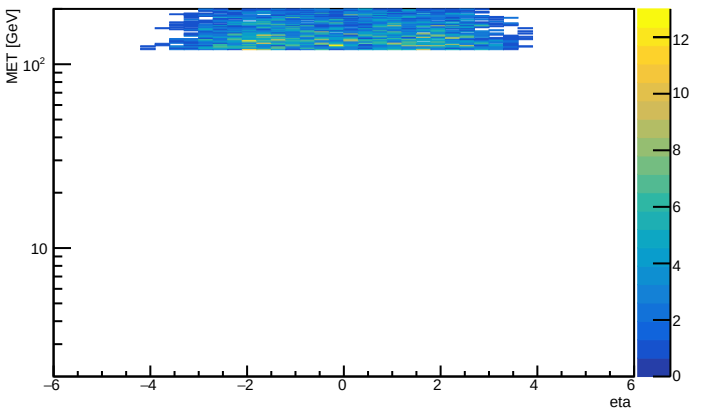
ctau 1000mm gen leading Met eta vs pt: n_jet >=1, j1pt > 30 GeV



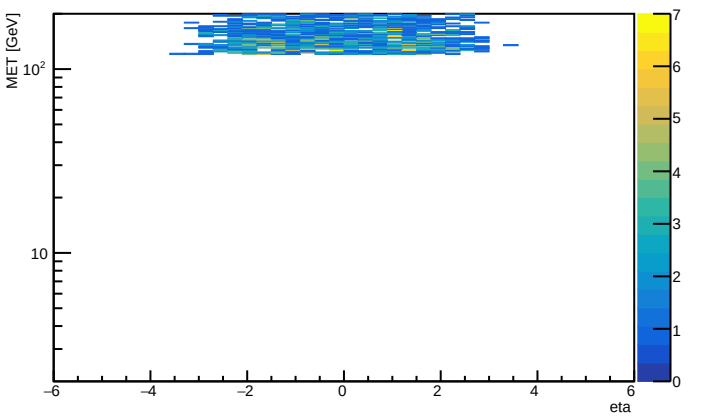
ctau 1000mm gen leading Met eta vs pt: MET > 120 GeV



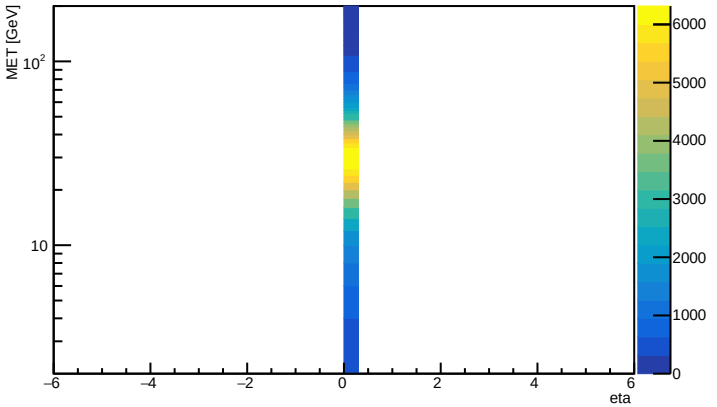
ctau 1000mm gen leading Met eta vs pt: j1pt >120, at most 2 jets w/ pt >30 GeV



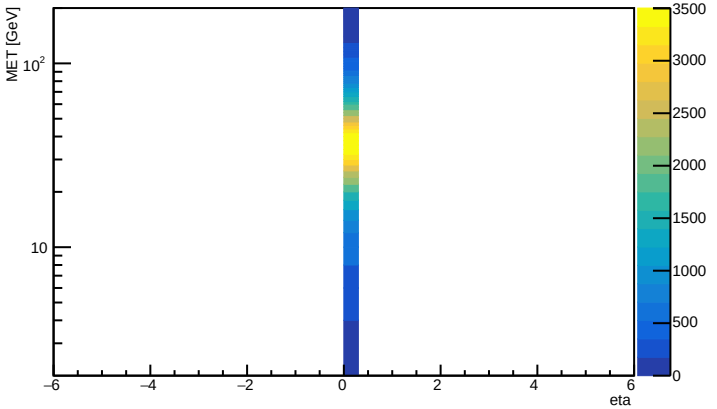
ctau 1000mm gen leading Met eta vs pt: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



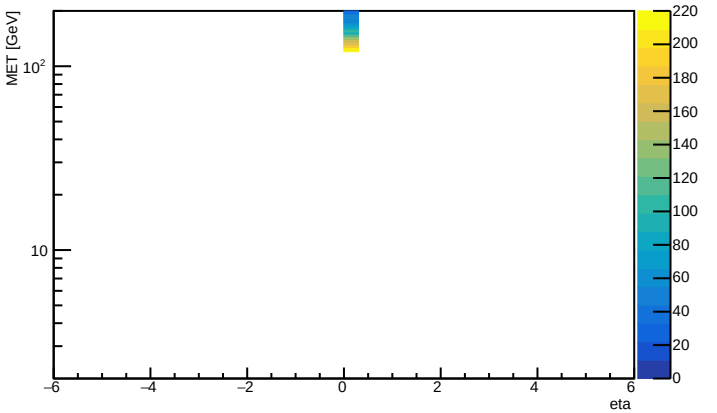
ctau 1000mm reco leading Met eta vs pt: no cuts



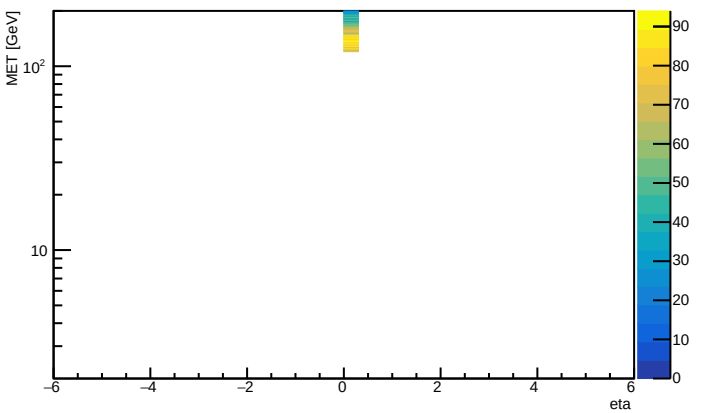
ctau 1000mm reco leading Met eta vs pt: n_jet >=1, j1pt > 30 GeV



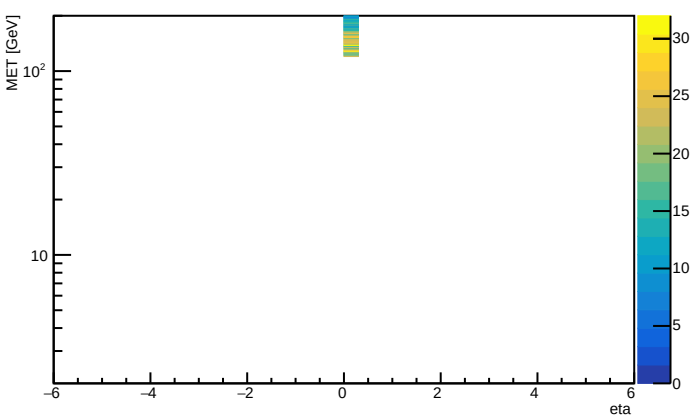
ctau 1000mm reco leading Met eta vs pt: MET > 120 GeV



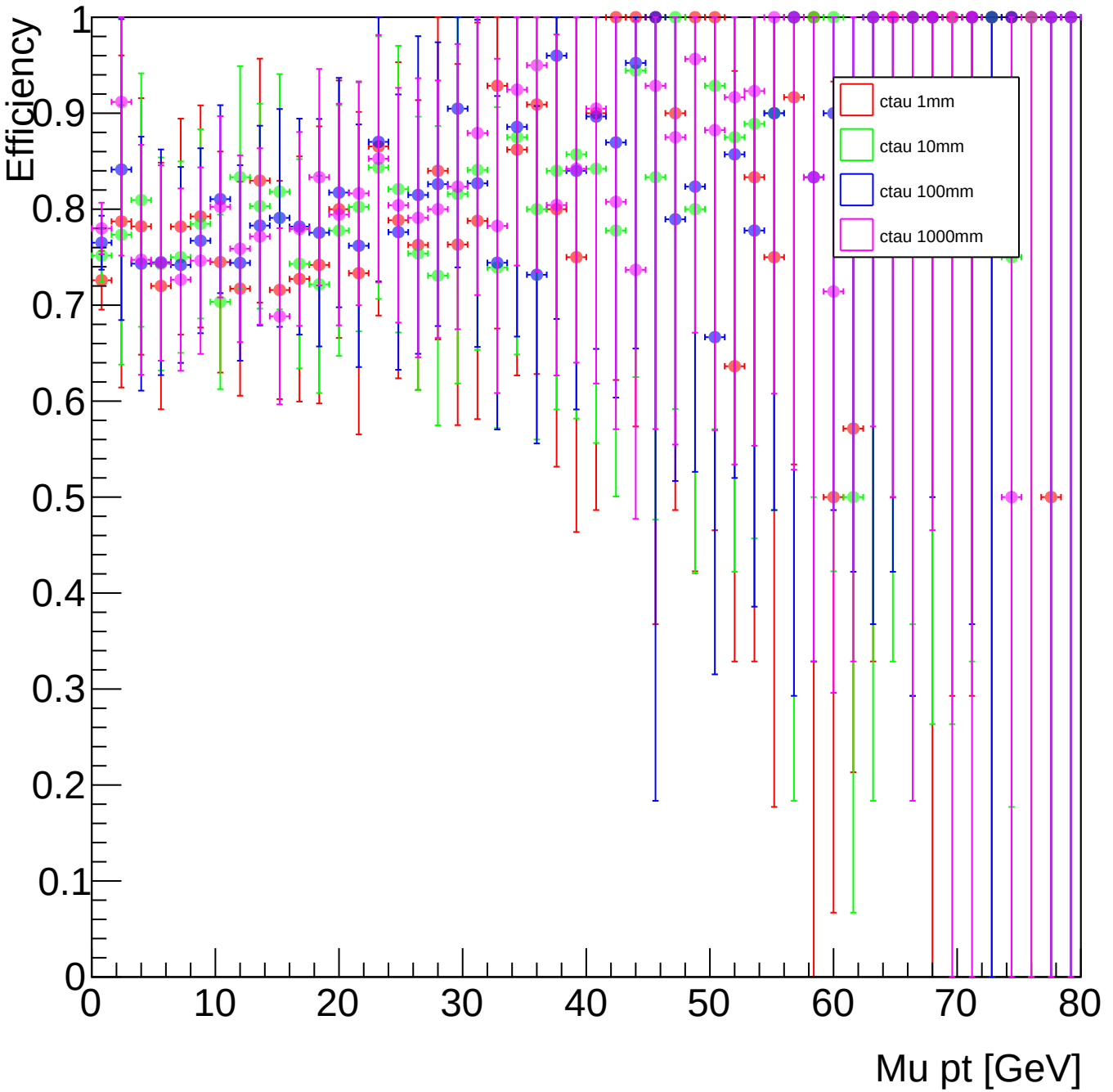
ctau 1000mm reco leading Met eta vs pt: j1pt >120, at most 2 jets w/ pt >30 GeV

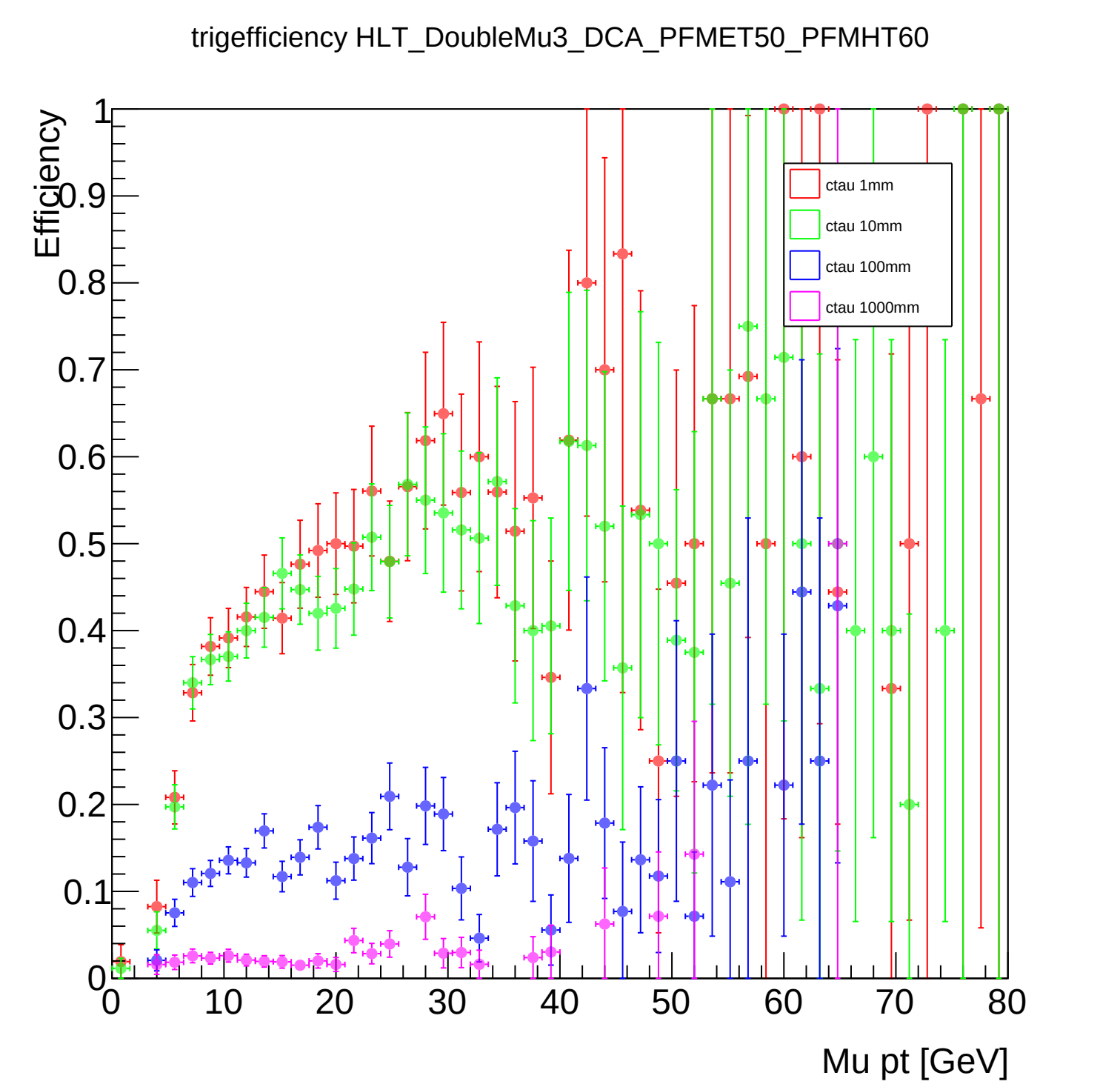


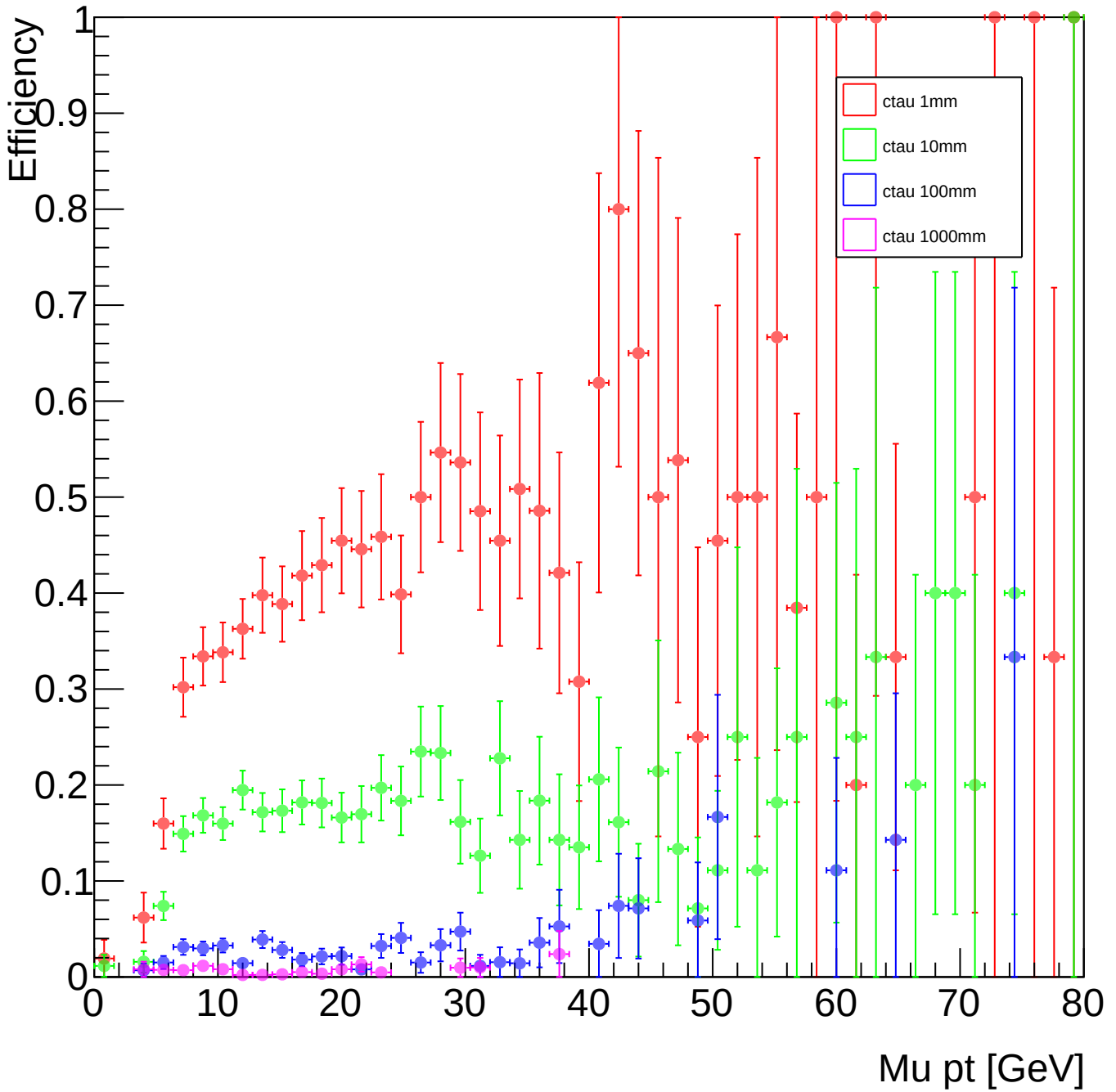
ctau 1000mm reco leading Met eta vs pt: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4

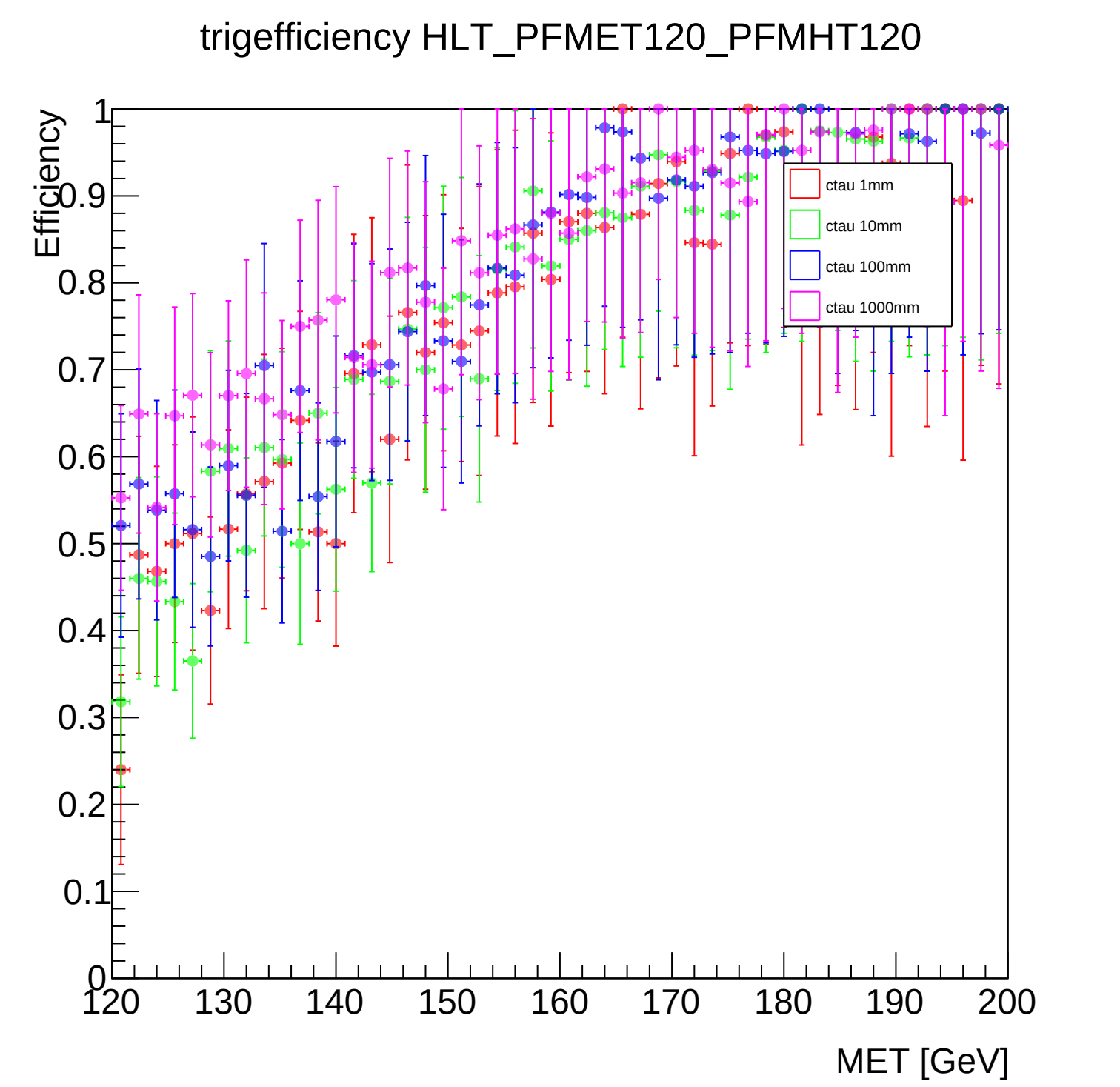


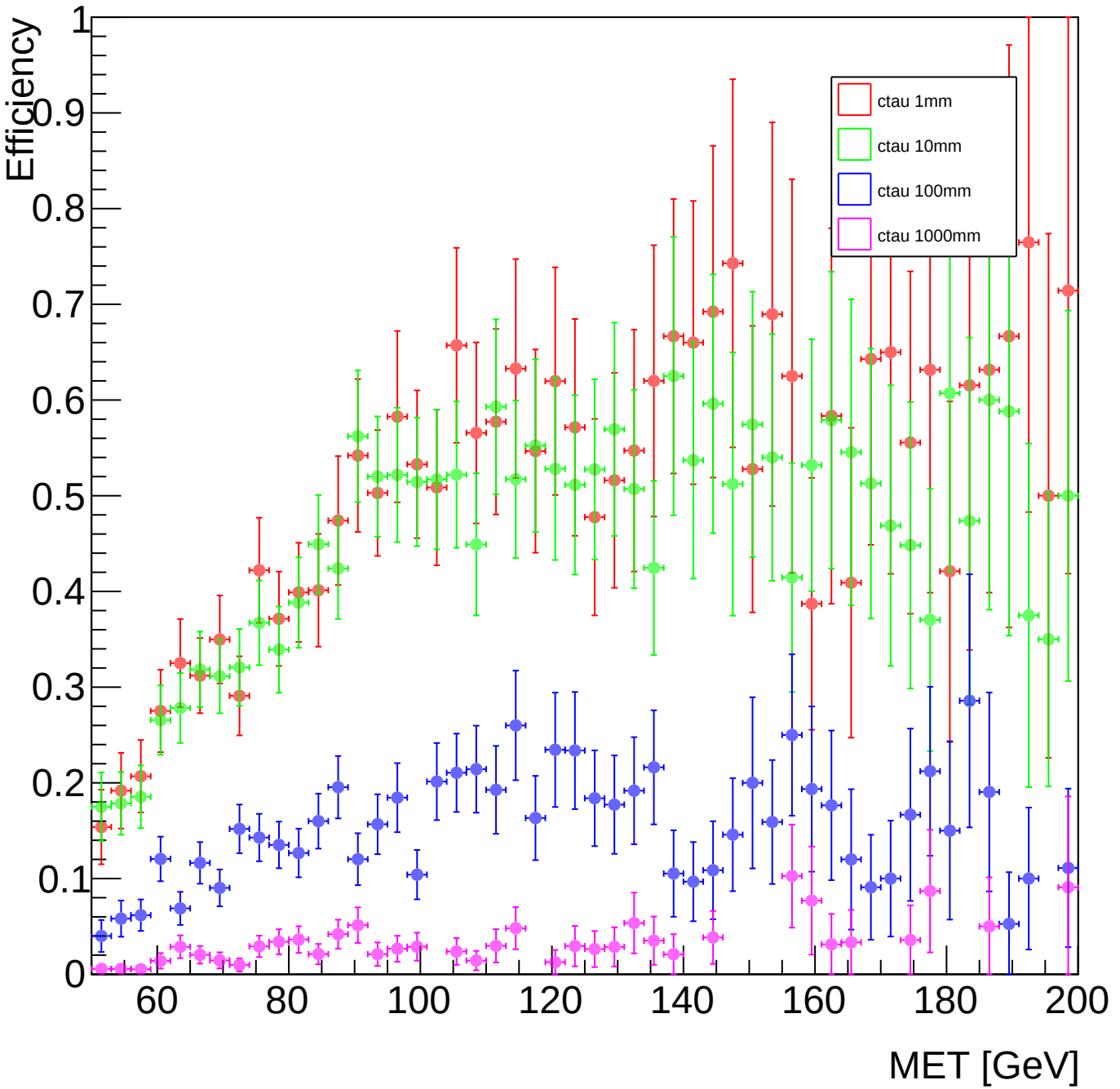
efficiencies

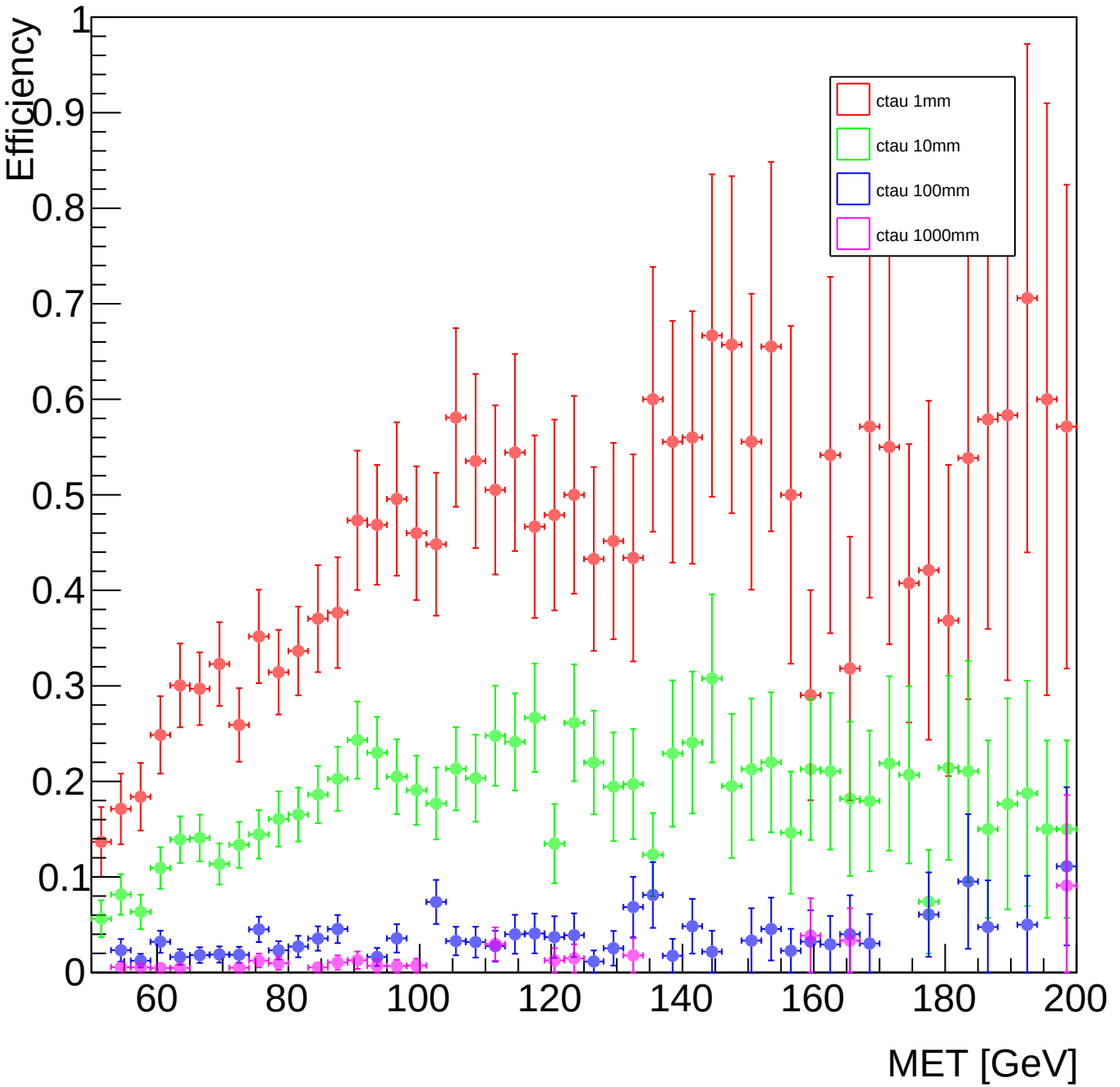

trigefficiency HLT_PFMET120_PFMHT120
Efficiency
Mu pt [GeV]
ctau 1mm
ctau 10mm
ctau 100mm
ctau 1000mm
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
0
10
20
30
40
50
60
70
80

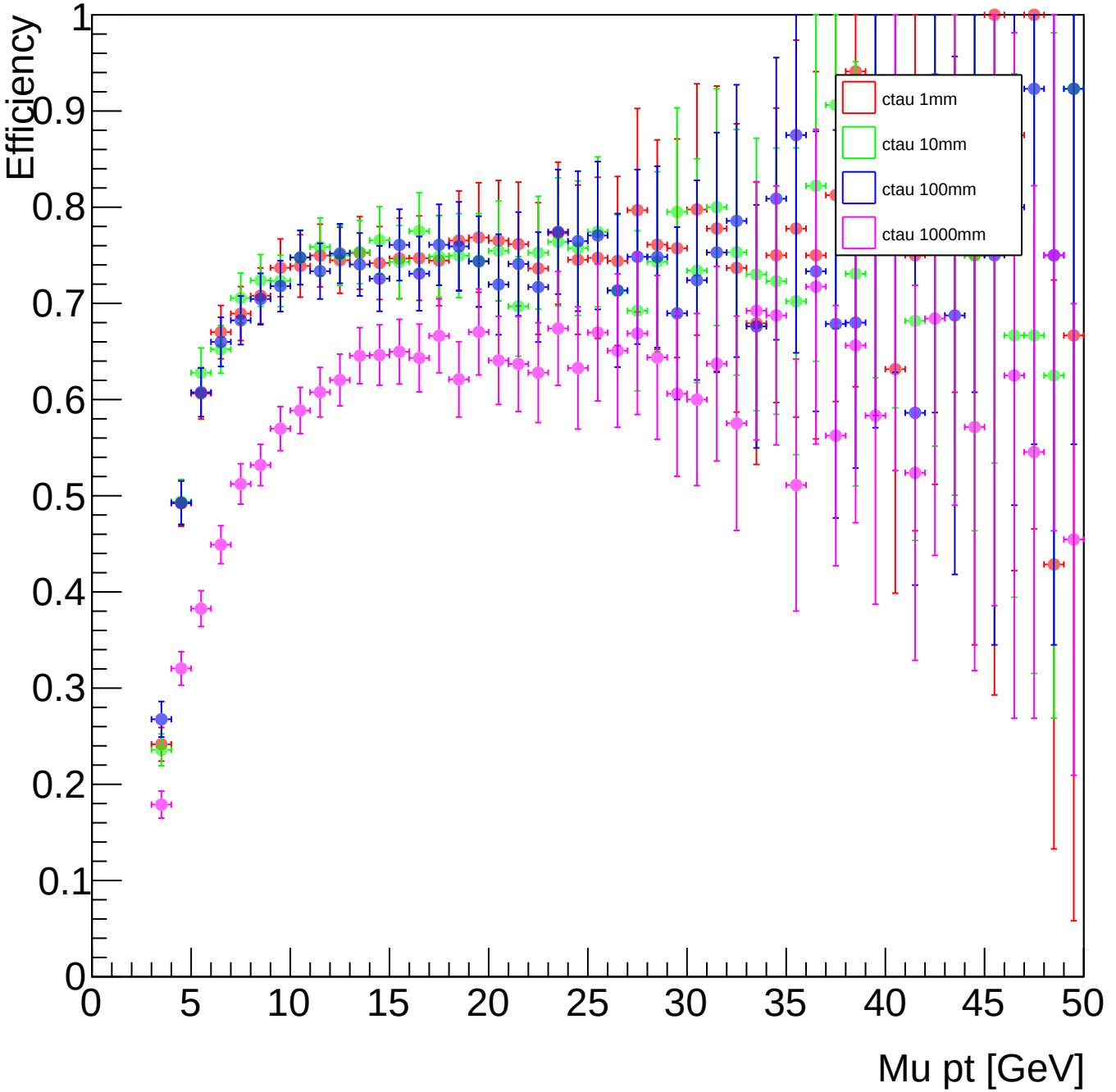

trigefficiency HLT_DoubleMu3_DCA_PFMET50_PFMHT60
Efficiency
Mu pt [GeV]
ctau 1mm
ctau 10mm
ctau 100mm
ctau 1000mm
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
0
10
20
30
40
50
60
70
80

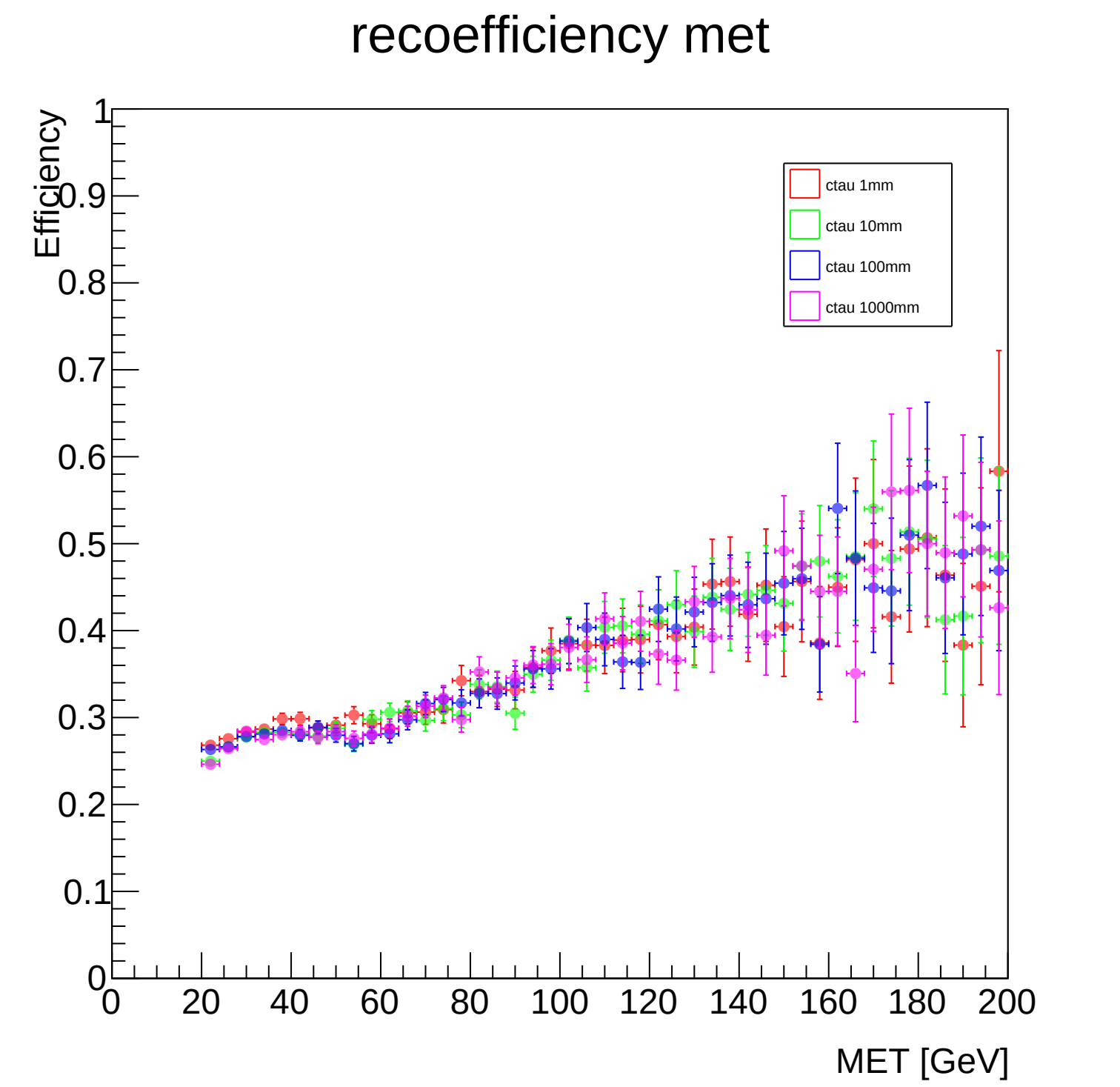

trigefficiency HLT_DoubleMu3_DZ_PFMET50_PFMHT60
Efficiency
Mu pt [GeV]
ctau 1mm
ctau 10mm
ctau 100mm
ctau 1000mm
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
0
10
20
30
40
50
60
70
80

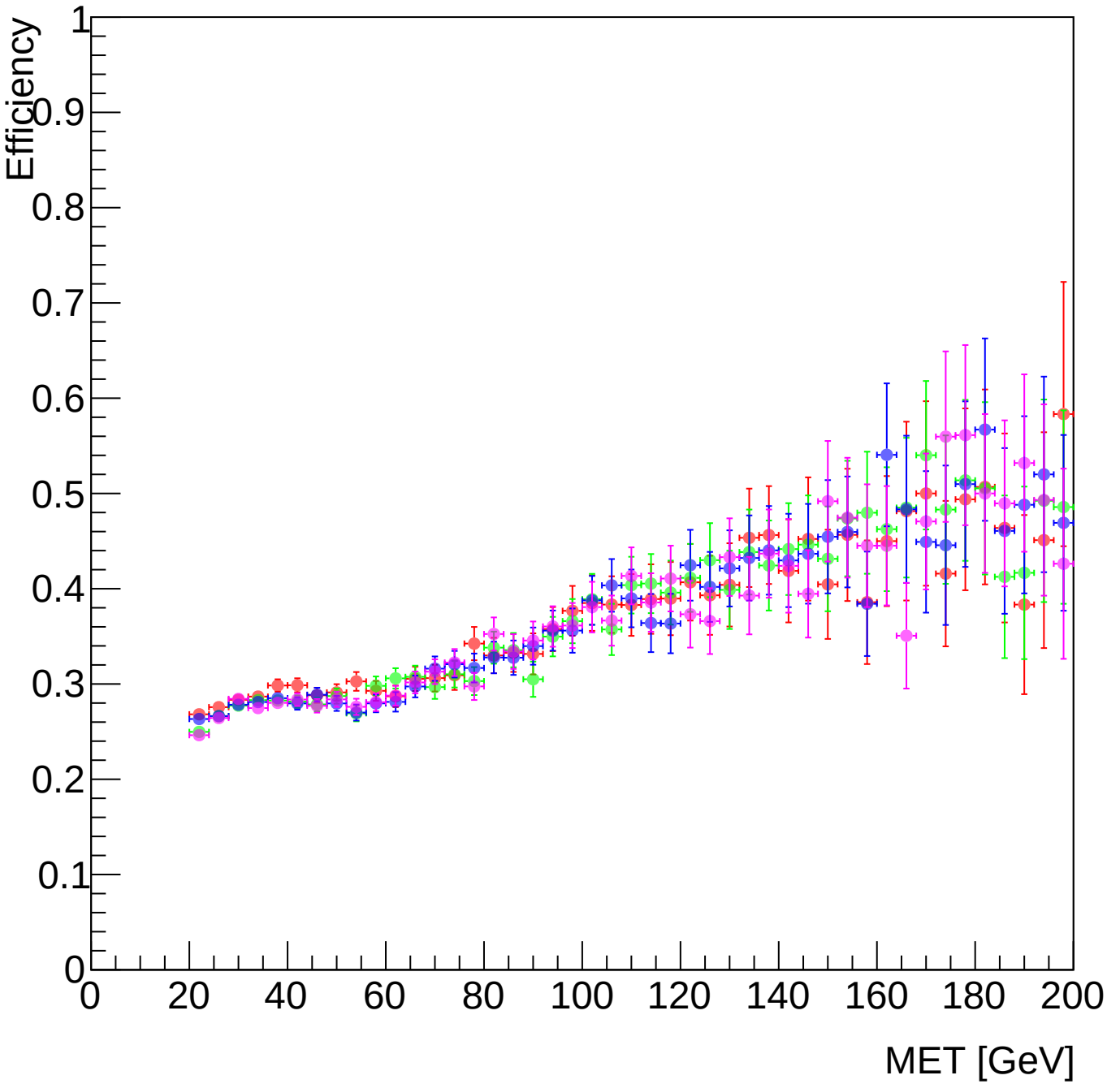

trigefficiency HLT_PFMET120_PFMHT120
Efficiency
MET [GeV]
ctau 1mm
ctau 10mm
ctau 100mm
ctau 1000mm
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
120
130
140
150
160
170
180
190
200


trigefficiency HLT_DoubleMu3_DCA_PFMET50_PFMHT60
Efficiency
MET [GeV]
ctau 1mm
ctau 10mm
ctau 100mm
ctau 1000mm
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
60
80
100
120
140
160
180
200


trigefficiency HLT_DoubleMu3_DZ_PFMET50_PFMHT60
Efficiency
MET [GeV]
ctau 1mm
ctau 10mm
ctau 100mm
ctau 1000mm
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
60
80
100
120
140
160
180
200


recoefficiency mu
Efficiency
Mu pt [GeV]
ctau 1mm
ctau 10mm
ctau 100mm
ctau 1000mm
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
0
5
10
15
20
25
30
35
40
45
50


recoefficiency met
Efficiency
MET [GeV]
ctau 1mm
ctau 10mm
ctau 100mm
ctau 1000mm
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
0
20
40
60
80
100
120
140
160
180
200


recoefficiency met
Efficiency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
20
40
60
80
100
120
140
160
180
200
MET [GeV]