5 Gev (10%)

Gen ctau 1mm: 393(c1:283(72.01%[72.01%]),c2:4(1.02%[1.41%]),c3:3(0.76%[75.00%]),c4:1(0.25%[33.33%]))

Reco ctau 1mm: 393(c1:209(53.18%[53.18%]),c2:3(0.76%[1.44%]),c3:2(0.51%[66.67%]),c4:0(0.00%[0.00%]))

Gen ctau 10mm: 368(c1:272(73.91%[73.91%]),c2:1(0.27%[0.37%]),c3:0(0.00%[0.00%]),c4:0(0.00%[0.00%]))

Reco ctau 10mm: 368(c1:212(57.61%[57.61%]),c2:1(0.27%[0.47%]),c3:0(0.00%[0.00%]),c4:0(0.00%[0.00%]))

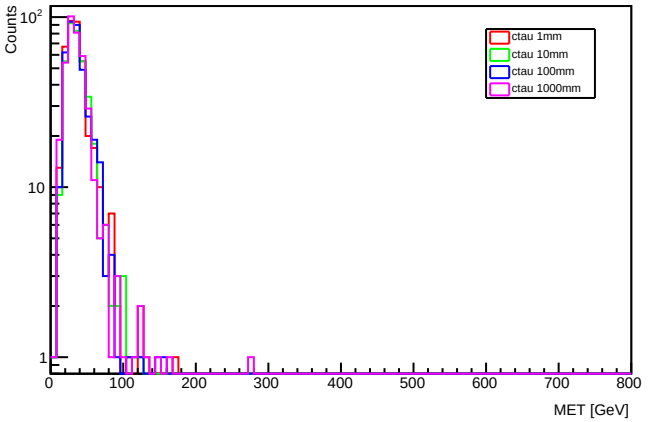
Gen ctau 100mm: 378(c1:281(74.34%[74.34%]),c2:3(0.79%[1.07%]),c3:1(0.26%[33.33%]),c4:0(0.00%[0.00%]))

Reco ctau 100mm: 378(c1:223(58.99%[58.99%]),c2:0(0.00%[0.00%]),c3:0(0.00%[0.00%]),c4:0(0.00%[0.00%]))

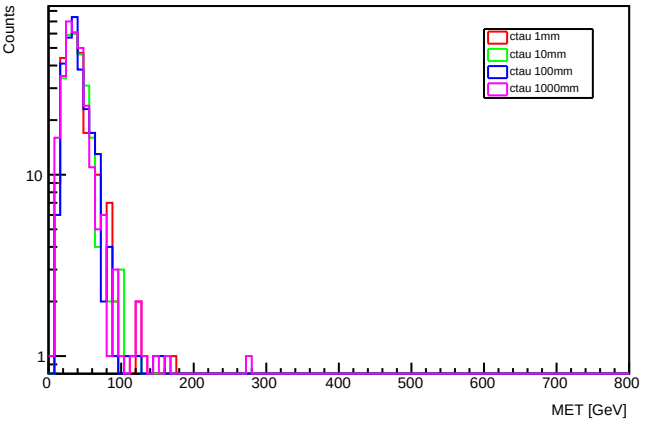
Gen ctau 1000mm: 378(c1:291(76.98%[76.98%]),c2:6(1.59%[2.06%]),c3:2(0.53%[33.33%]),c4:0(0.00%[0.00%]))

Reco ctau 1000mm: 378(c1:220(58.20%[58.20%]),c2:5(1.32%[2.27%]),c3:2(0.53%[40.00%]),c4:0(0.00%[0.00%]))

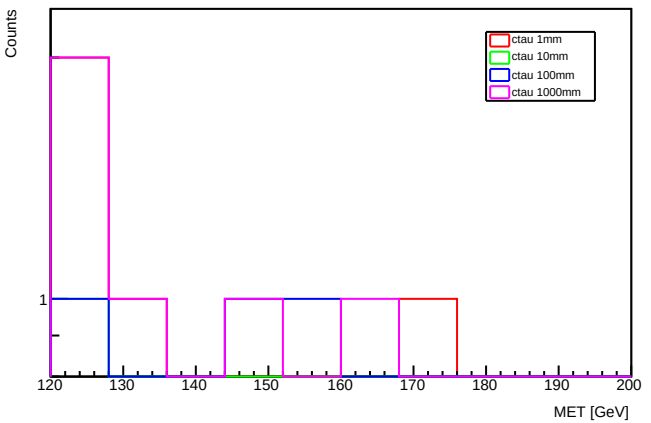
gen leading MET: no cuts



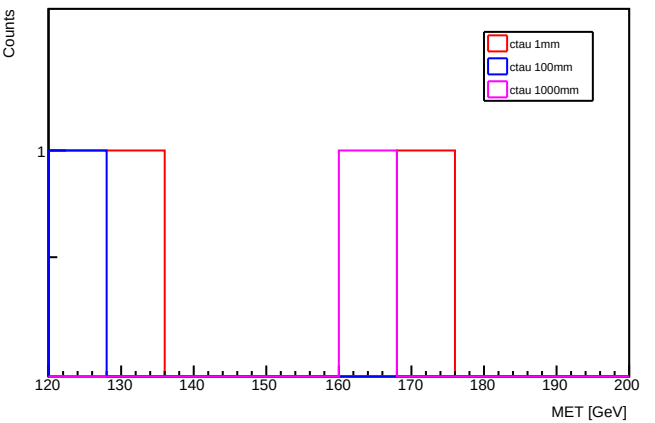
gen leading MET: n_jet >=1, j1pt > 30 GeV



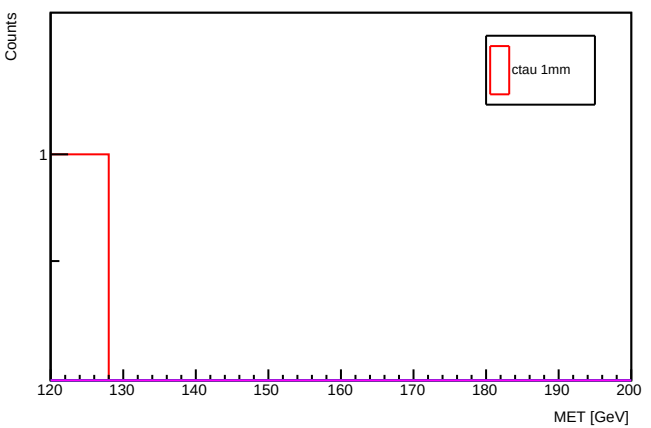
gen leading MET: MET > 120 GeV



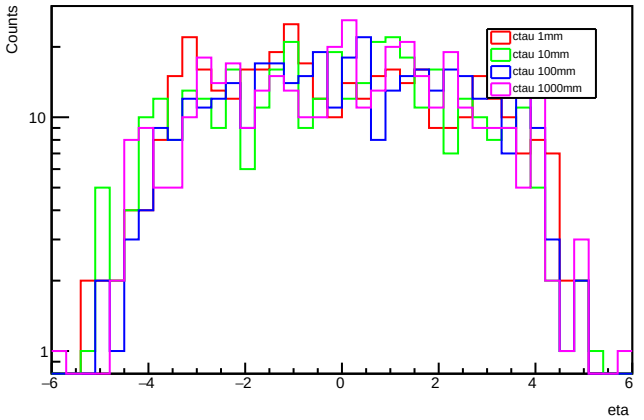
gen leading MET: j1pt >120, at most 2 jets w/ pt >30 GeV



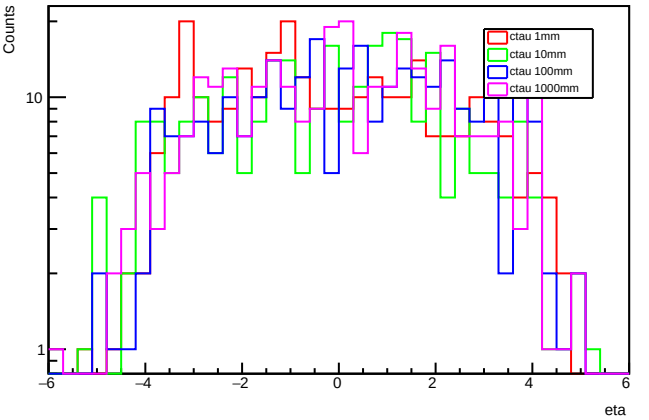
gen leading MET: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



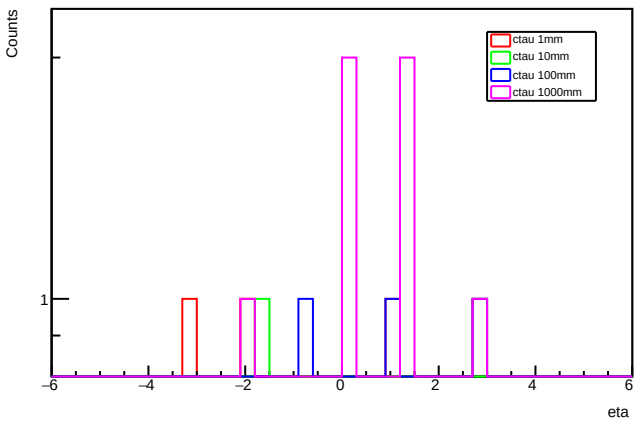
gen leading Met eta: no cuts



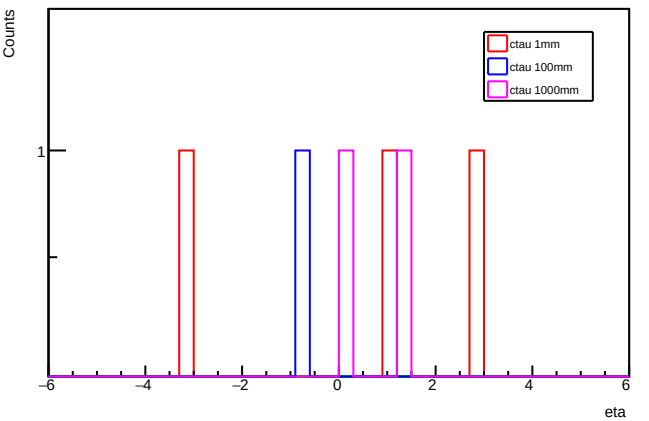
gen leading Met eta: n_jet >=1, j1pt > 30 GeV



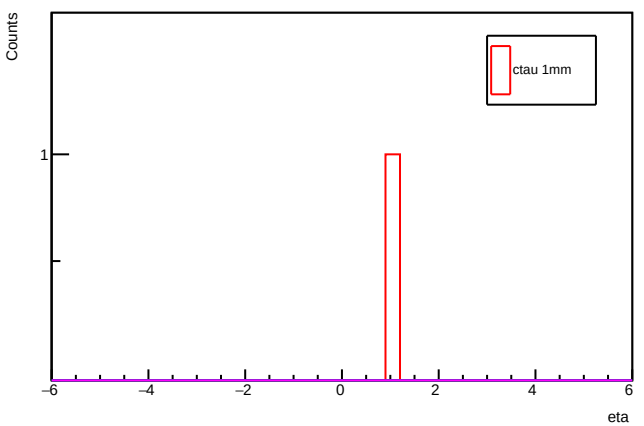
gen leading Met eta: MET > 120 GeV



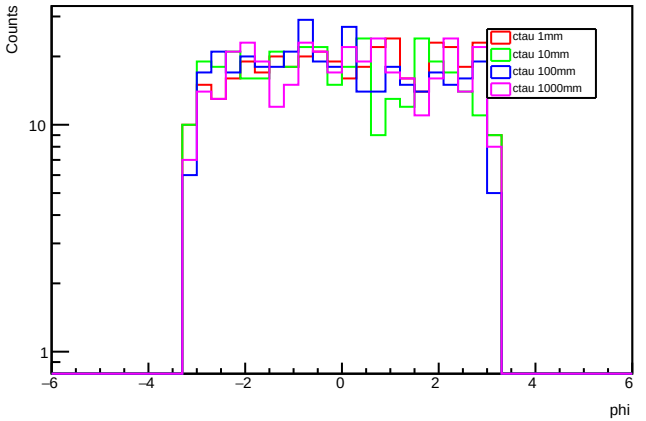
gen leading Met eta: j1pt >120, at most 2 jets w/ pt >30 GeV



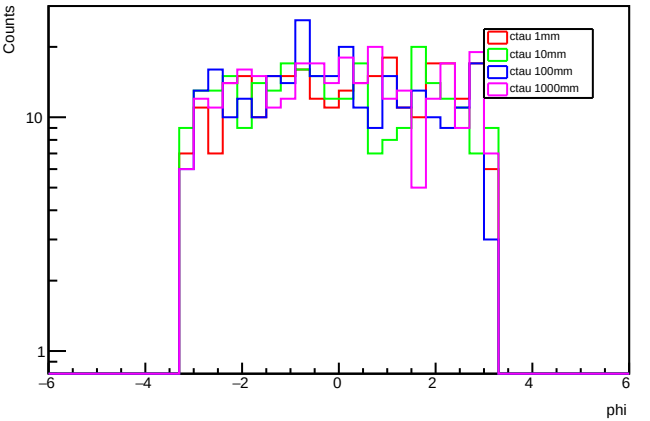
gen leading Met eta: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



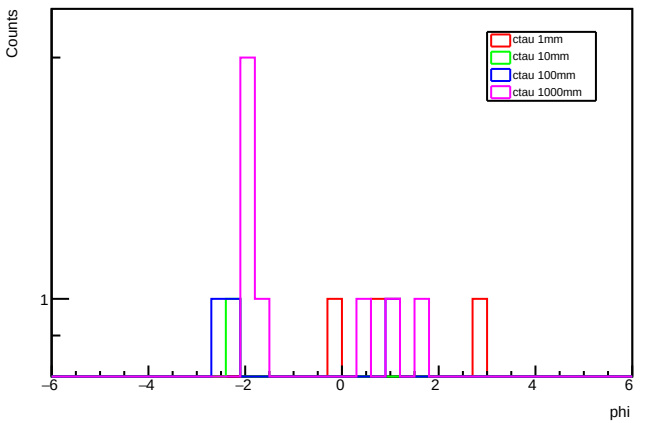
gen leading Met phi: no cuts



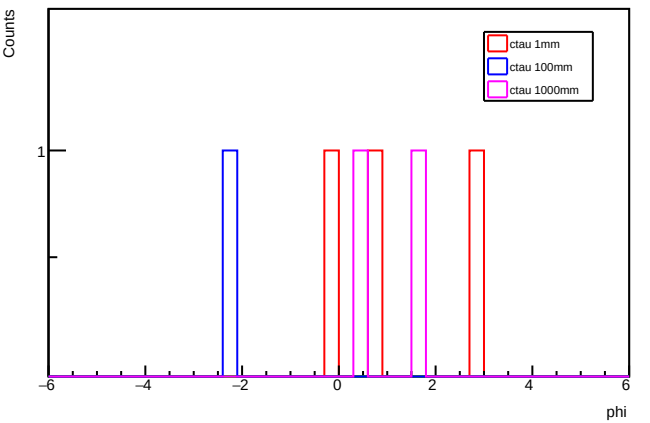
gen leading Met phi: n_jet >=1, j1pt > 30 GeV



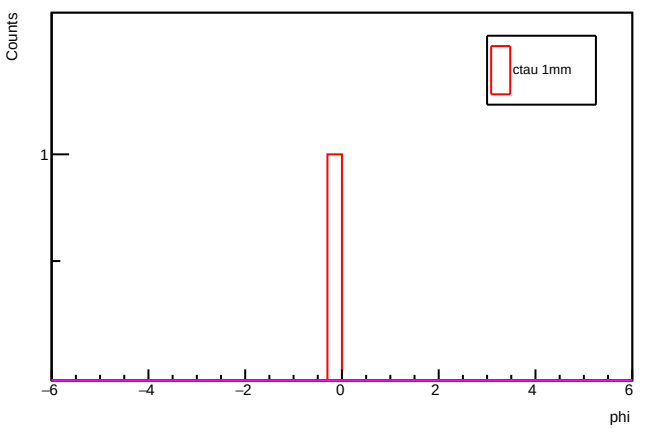
gen leading Met phi: MET > 120 GeV



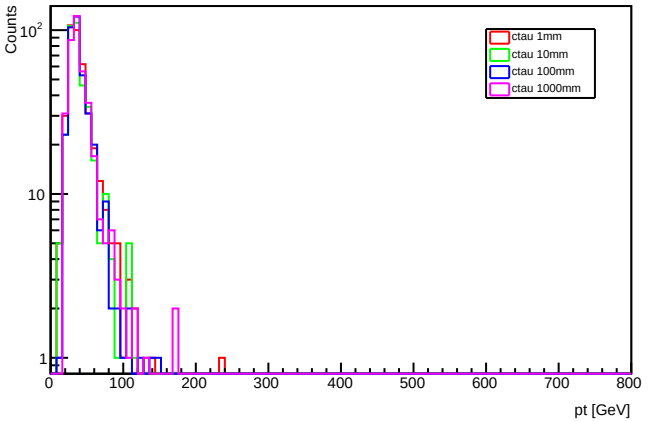
gen leading Met phi: j1pt >120, at most 2 jets w/ pt >30 GeV



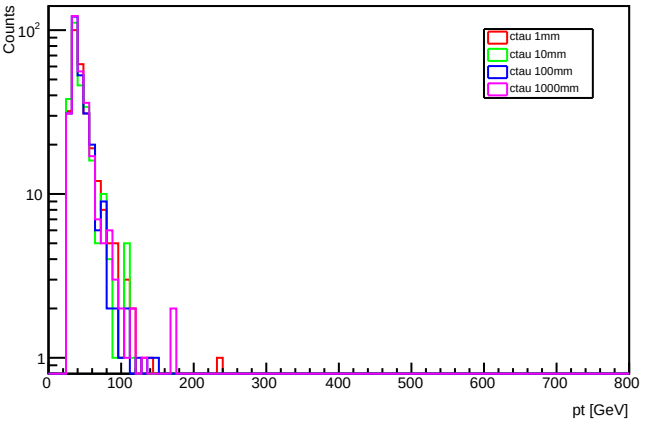
gen leading Met phi: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



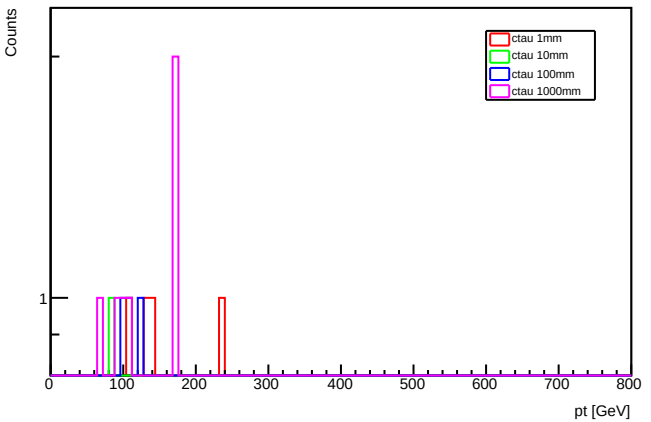
gen leading Jet pt: no cuts



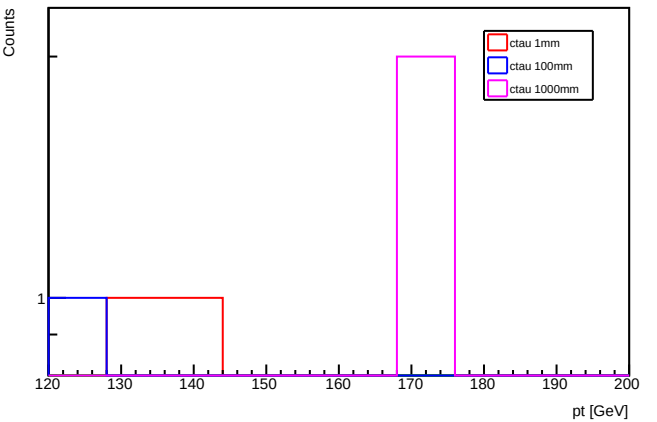
gen leading Jet pt: n_jet >=1, j1pt > 30 GeV



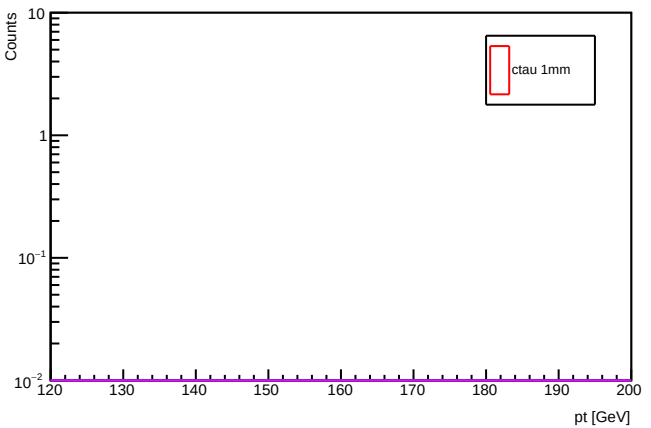
gen leading Jet pt: MET > 120 GeV



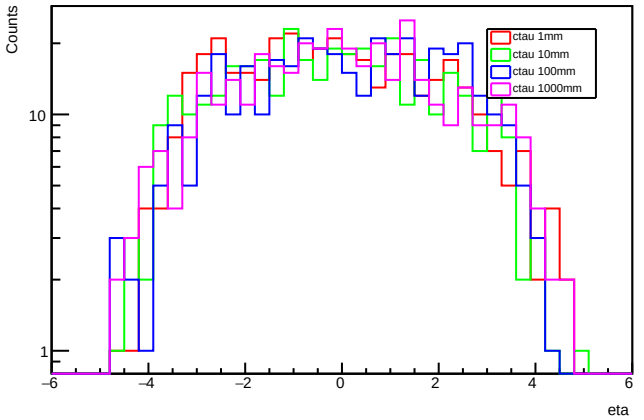
gen leading Jet pt: j1pt >120, at most 2 jets w/ pt >30 GeV



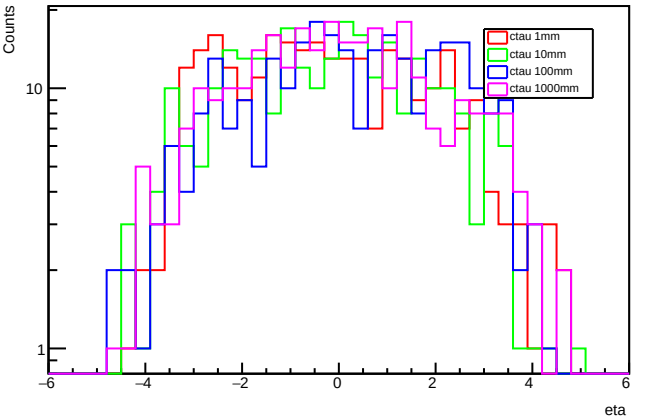
gen leading Jet pt: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



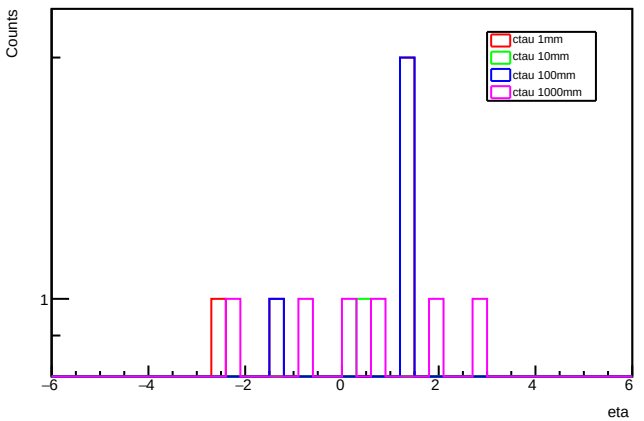
gen leading Jet eta: no cuts



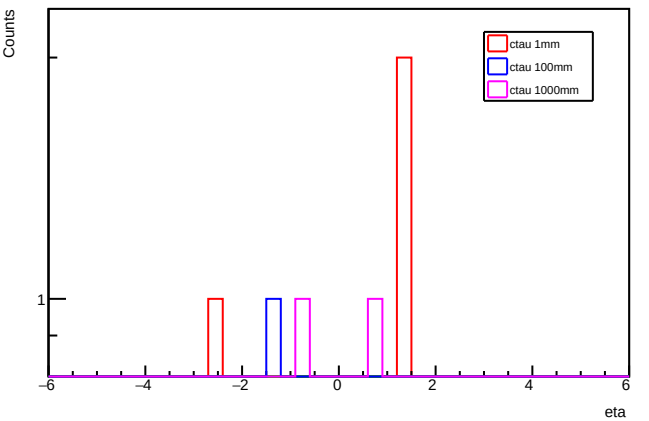
gen leading Jet eta: n_jet >=1, j1pt > 30 GeV



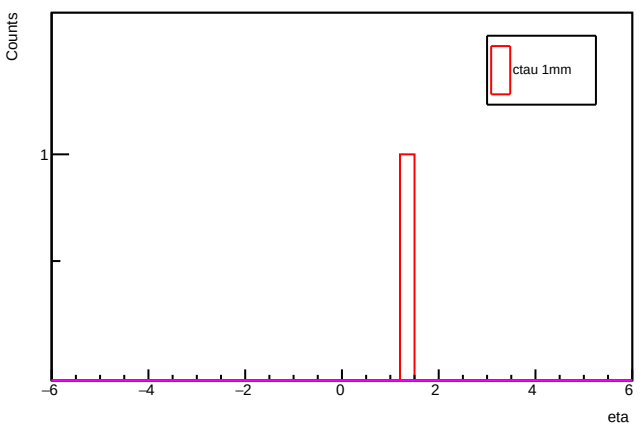
gen leading Jet eta: MET > 120 GeV



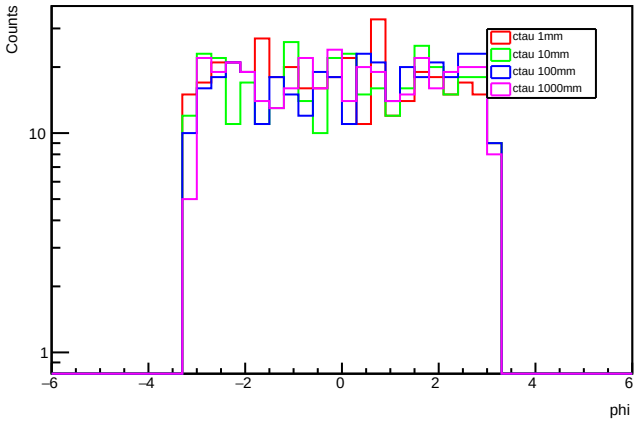
gen leading Jet eta: j1pt >120, at most 2 jets w/ pt >30 GeV



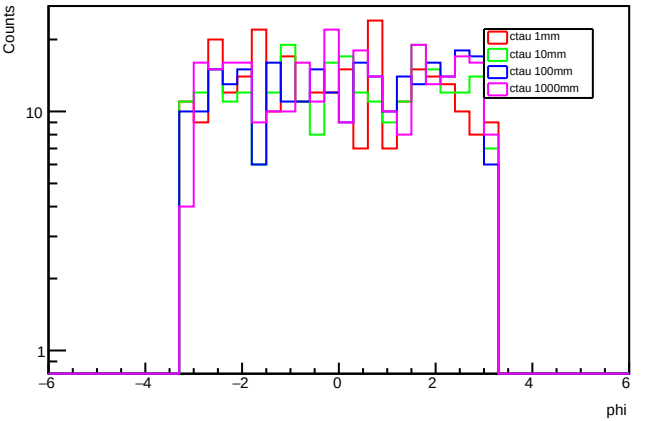
gen leading Jet eta: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



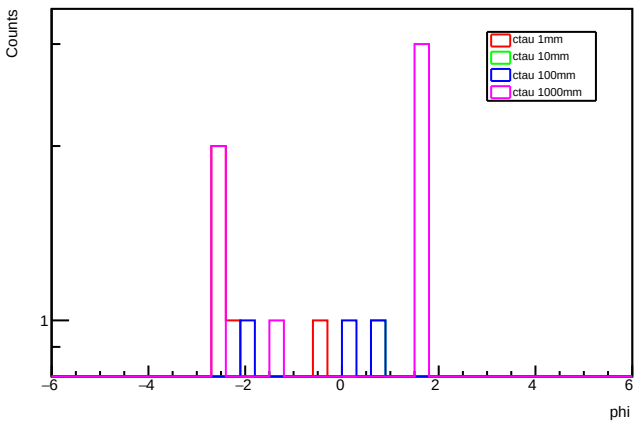
gen leading Jet phi: no cuts



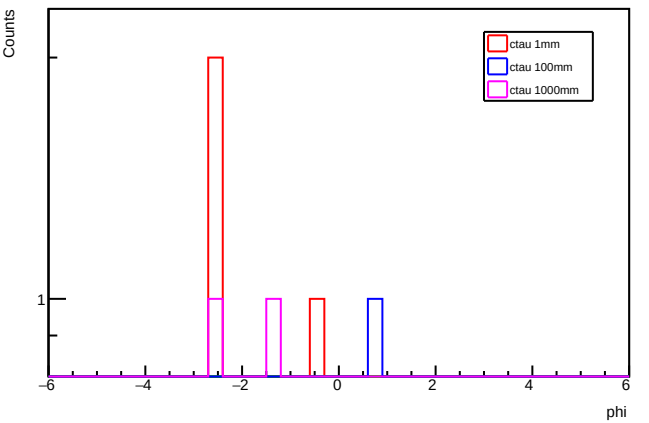
gen leading Jet phi: n_jet >=1, j1pt > 30 GeV



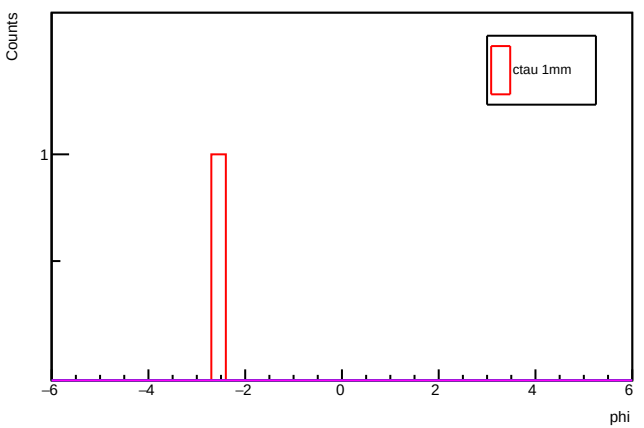
gen leading Jet phi: MET > 120 GeV



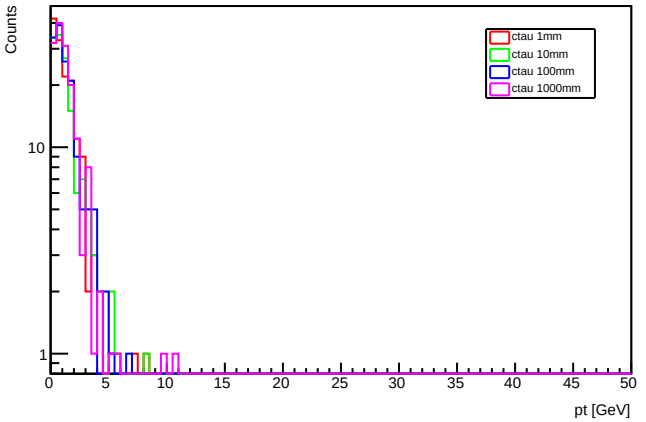
gen leading Jet phi: j1pt >120, at most 2 jets w/ pt >30 GeV



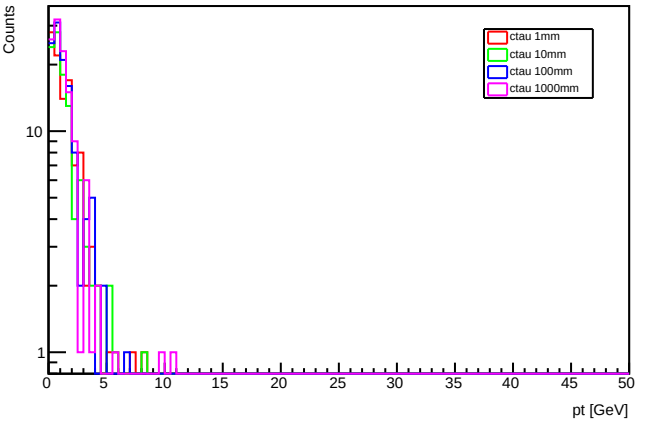
gen leading Jet phi: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



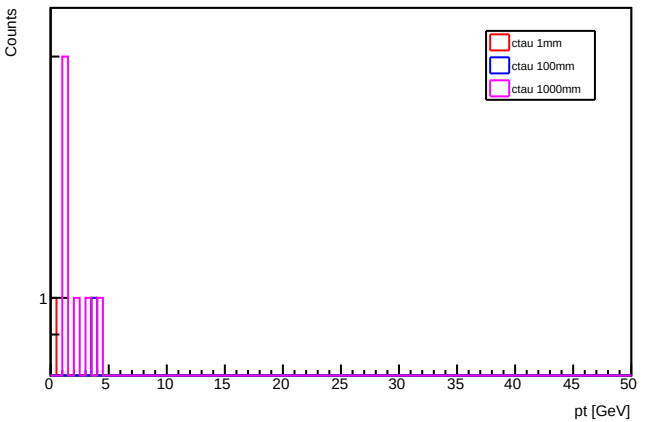
gen leading Mu pt: no cuts



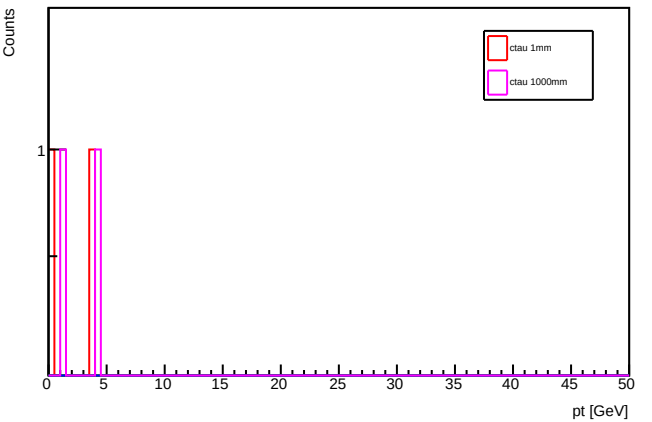
gen leading Mu pt: n_jet >=1, j1pt > 30 GeV



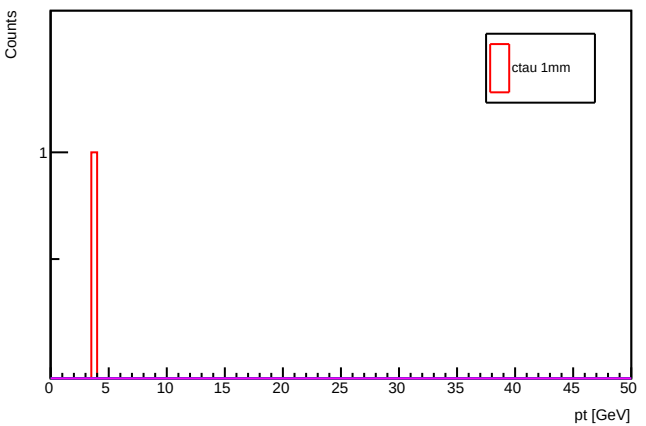
gen leading Mu pt: MET > 120 GeV



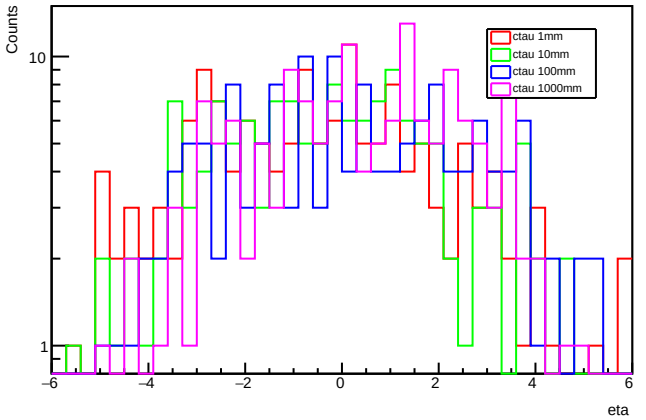
gen leading Mu pt: j1pt >120, at most 2 jets w/ pt >30 GeV



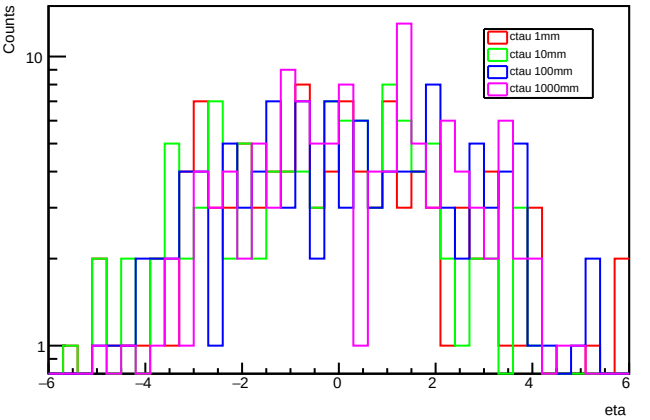
gen leading Mu pt: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



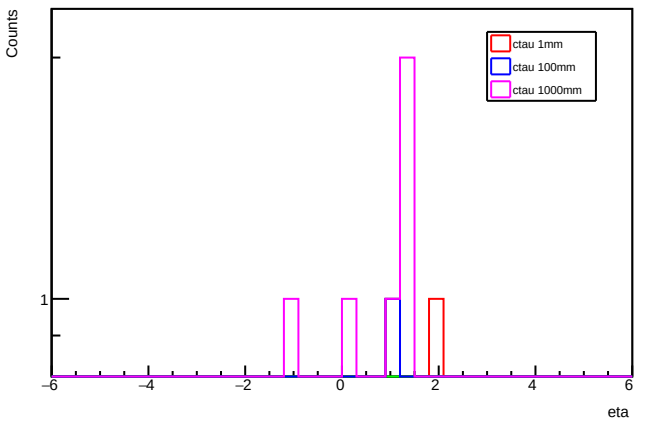
gen leading Mu eta: no cuts



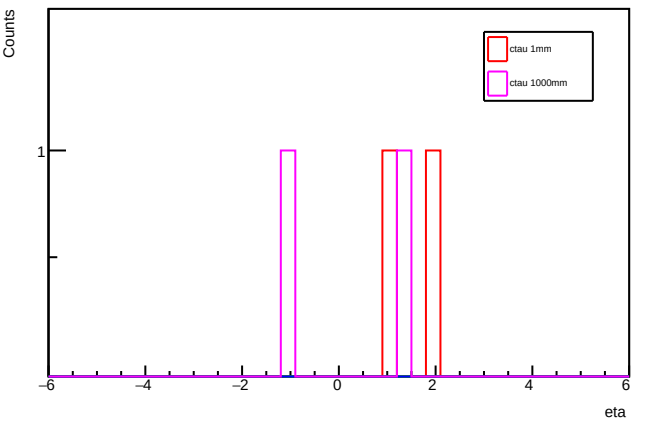
gen leading Mu eta: n_jet >=1, j1pt > 30 GeV



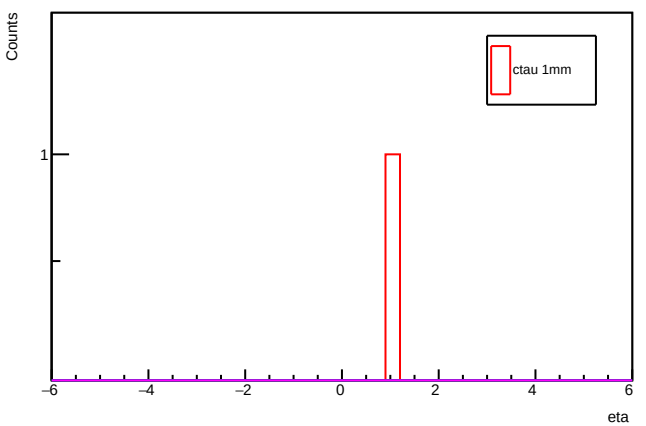
gen leading Mu eta: MET > 120 GeV



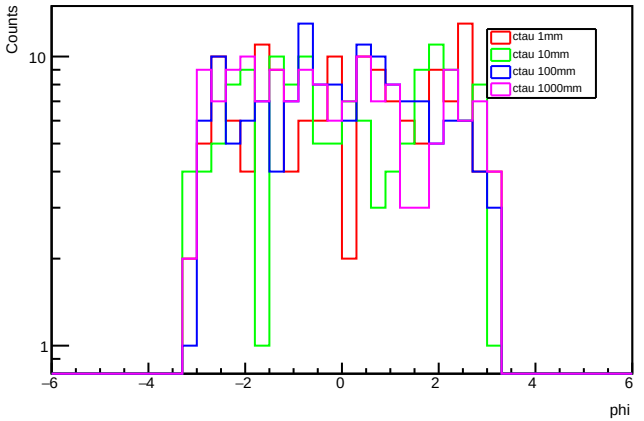
gen leading Mu eta: j1pt >120, at most 2 jets w/ pt >30 GeV



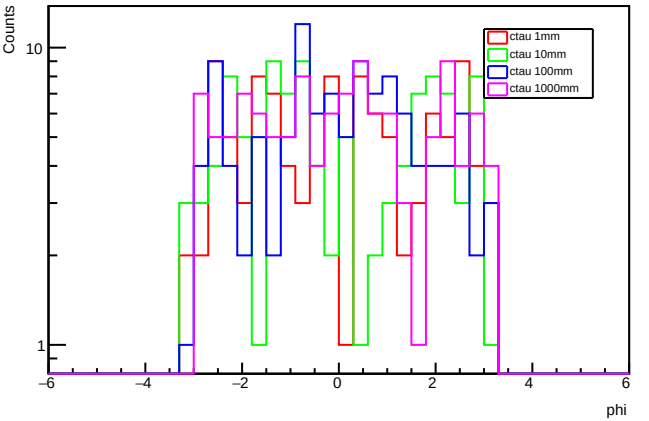
gen leading Mu eta: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



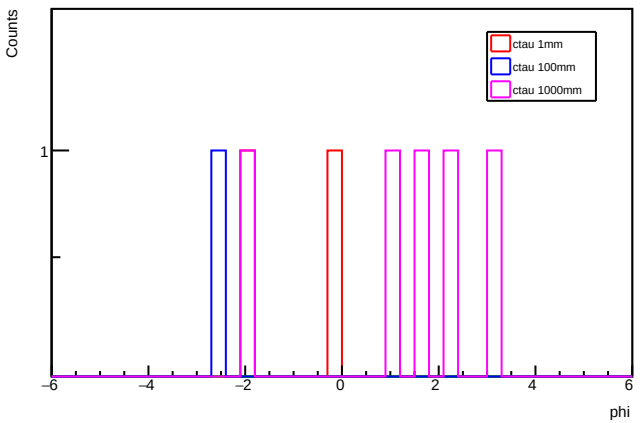
gen leading Mu phi: no cuts



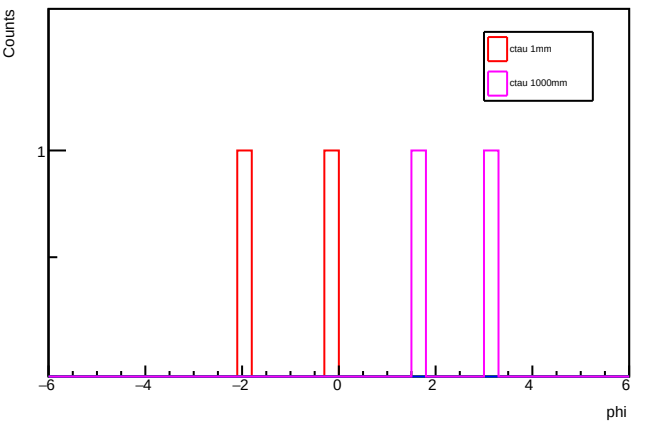
gen leading Mu phi: n_jet >=1, j1pt > 30 GeV



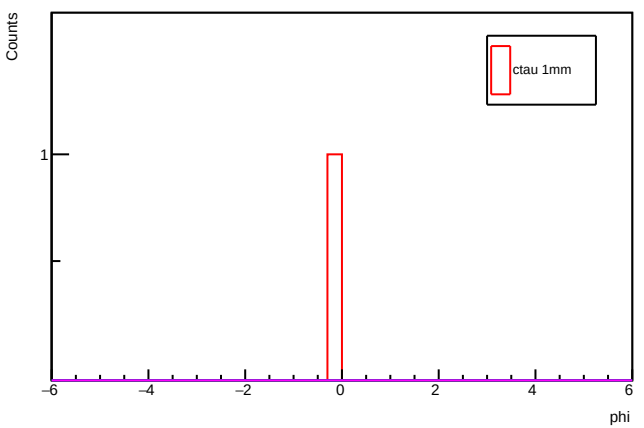
gen leading Mu phi: MET > 120 GeV



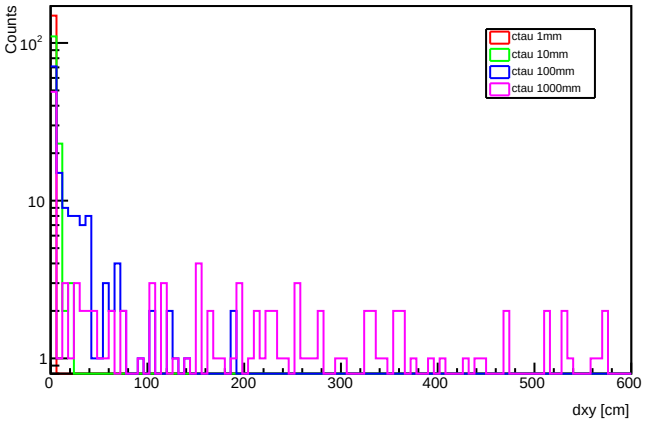
gen leading Mu phi: j1pt >120, at most 2 jets w/ pt >30 GeV



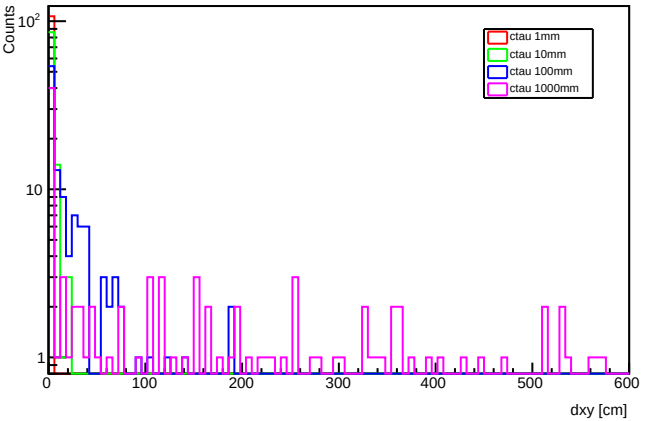
gen leading Mu phi: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



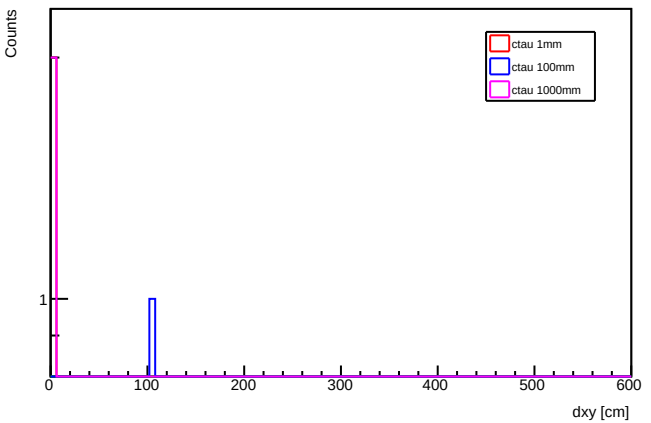
gen leading Mu vxy: no cuts



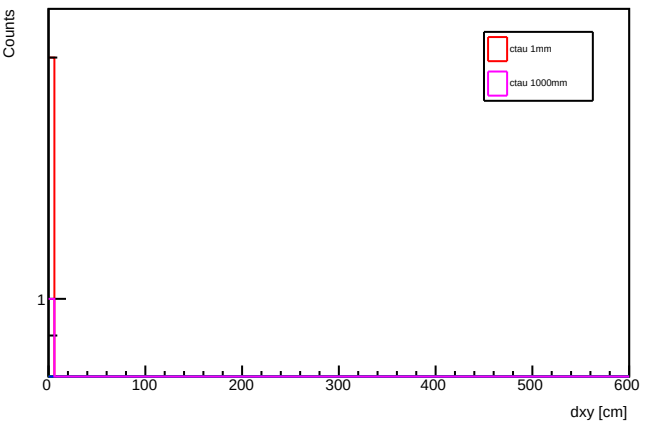
gen leading Mu vxy: n_jet >=1, j1pt > 30 GeV



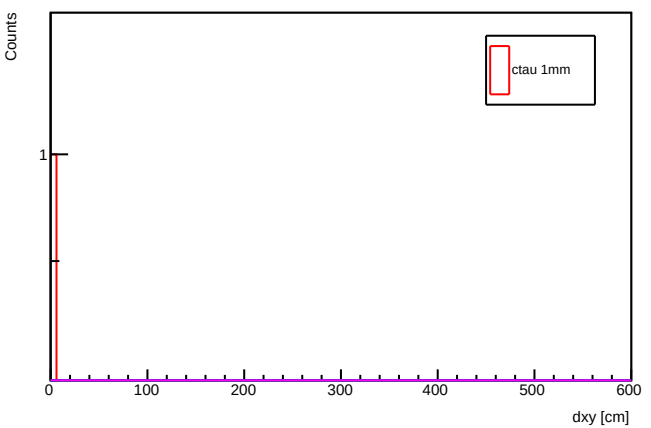
gen leading Mu vxy: MET > 120 GeV



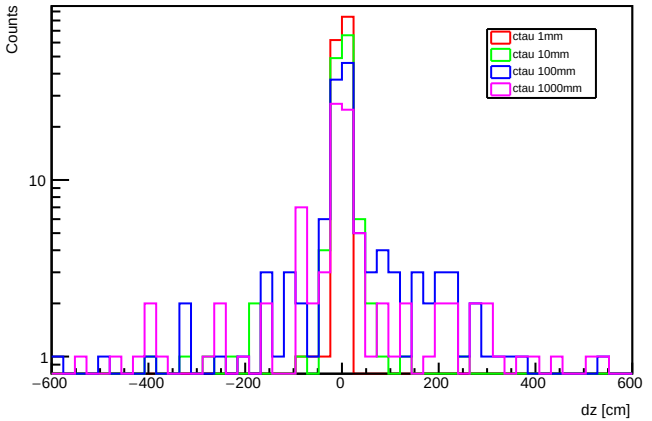
gen leading Mu vxy: j1pt >120, at most 2 jets w/ pt >30 GeV



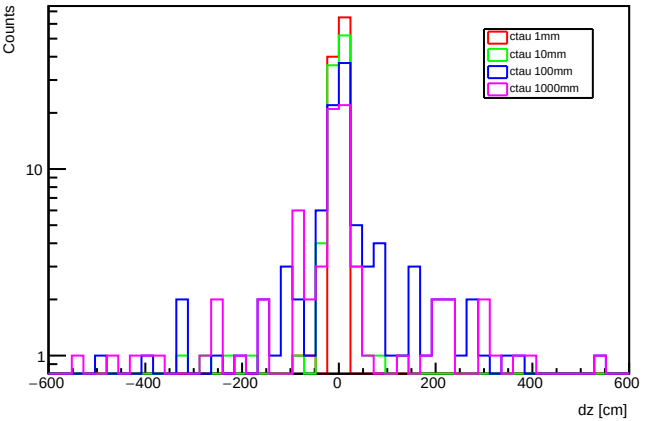
gen leading Mu vxy: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



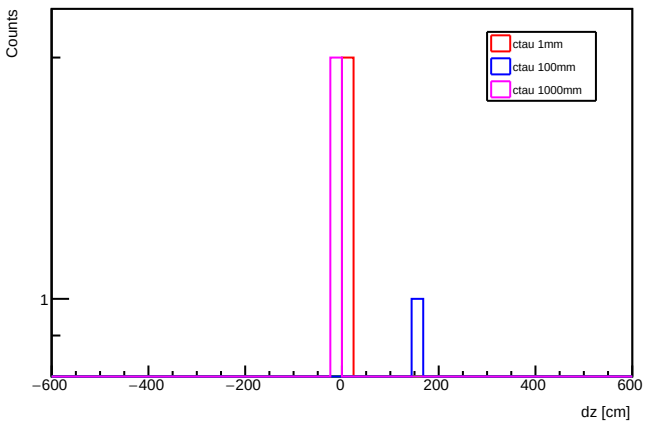
gen leading Mu vz: no cuts



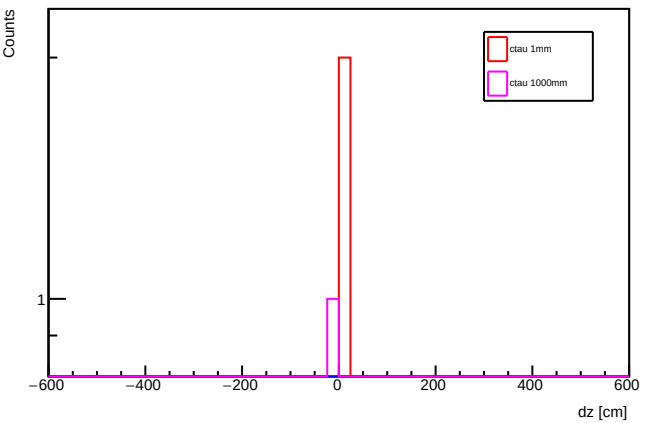
gen leading Mu vz: n_jet >=1, j1pt > 30 GeV



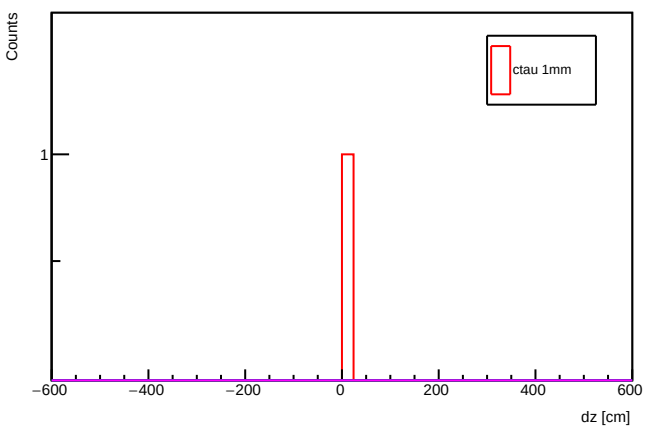
gen leading Mu vz: MET > 120 GeV



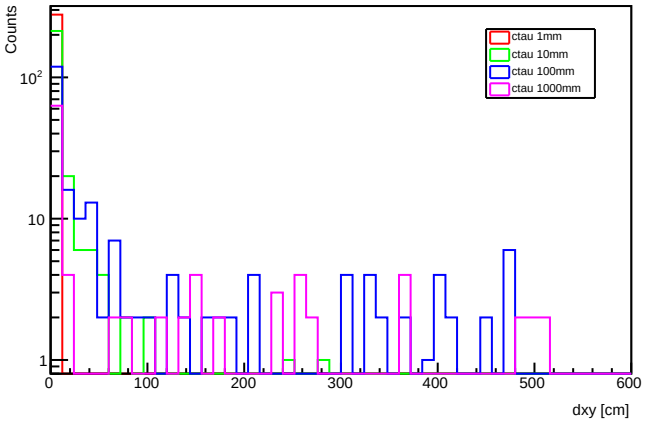
gen leading Mu vz: j1pt >120, at most 2 jets w/ pt >30 GeV



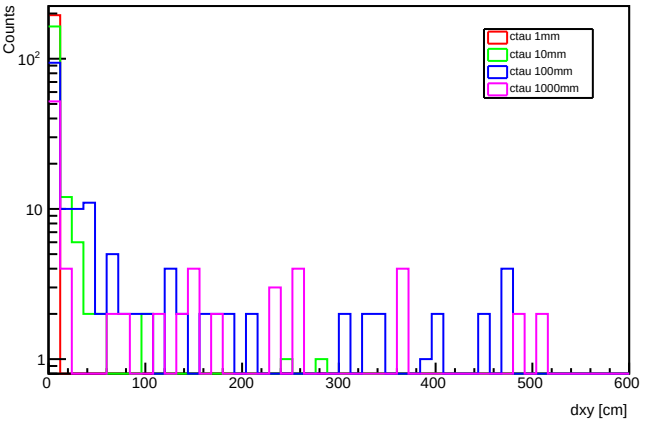
gen leading Mu vz: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



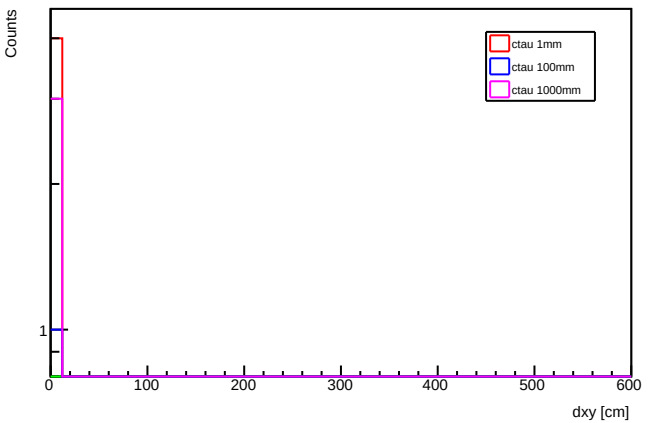
gen all Mu vxy: no cuts



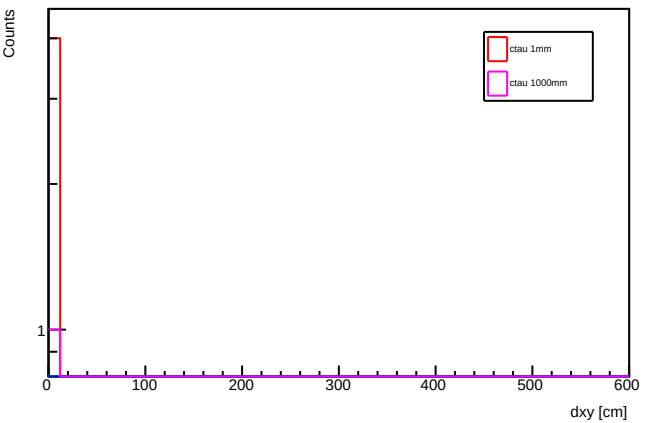
gen all Mu vxy: n_jet >=1, j1pt > 30 GeV



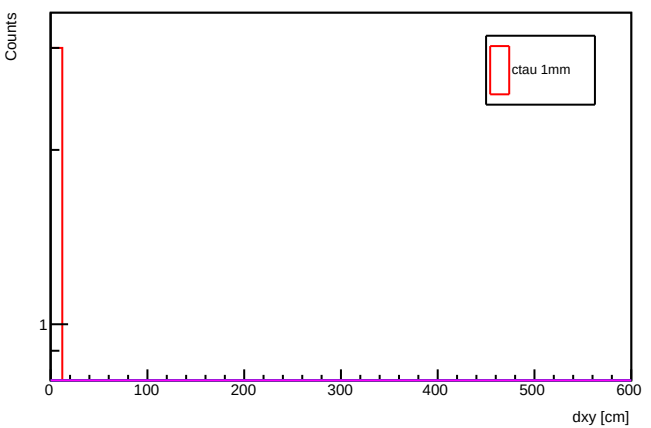
gen all Mu vxy: MET > 120 GeV



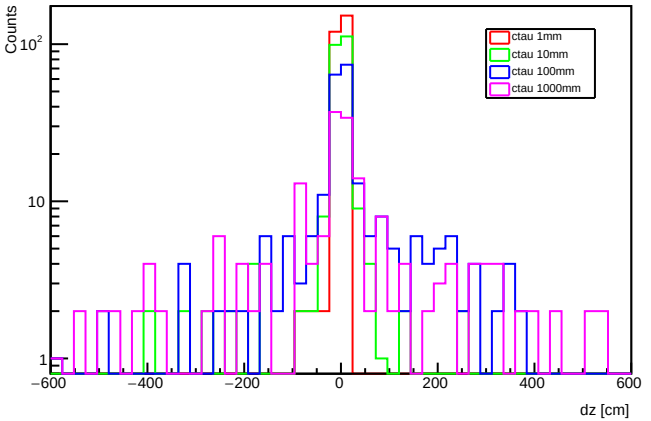
gen all Mu vxy: j1pt >120, at most 2 jets w/ pt >30 GeV



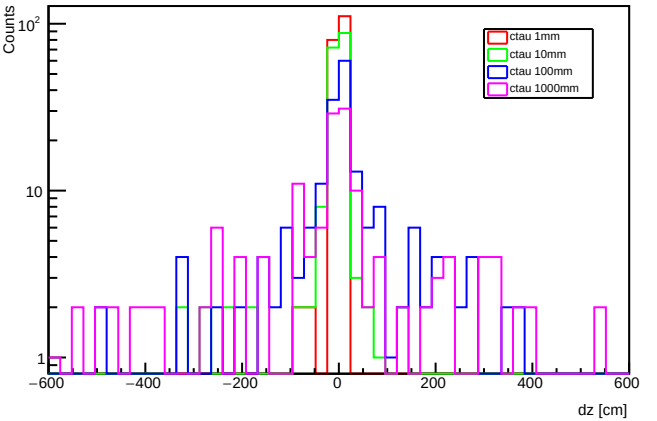
gen all Mu vxy: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



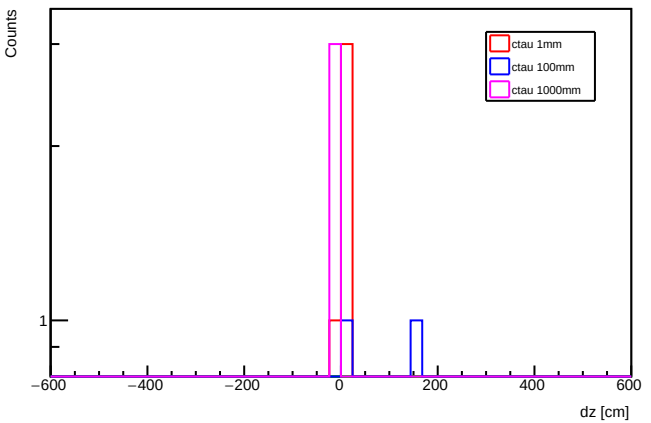
gen all Mu vz: no cuts



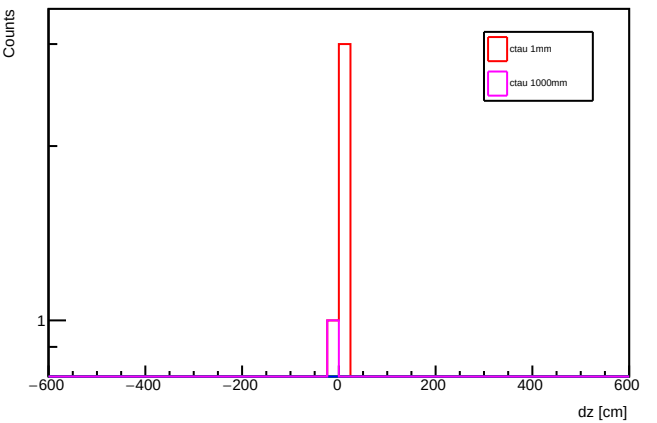
gen all Mu vz: n_jet >=1, j1pt > 30 GeV



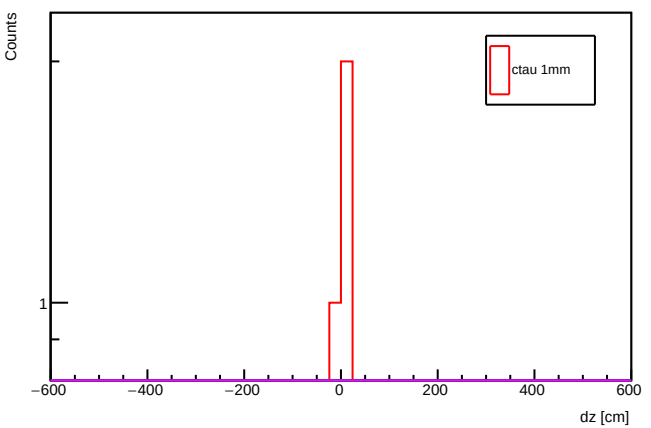
gen all Mu vz: MET > 120 GeV



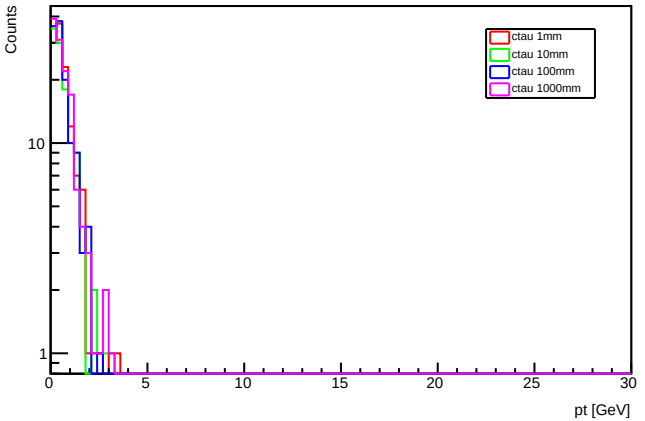
gen all Mu vz: j1pt >120, at most 2 jets w/ pt >30 GeV



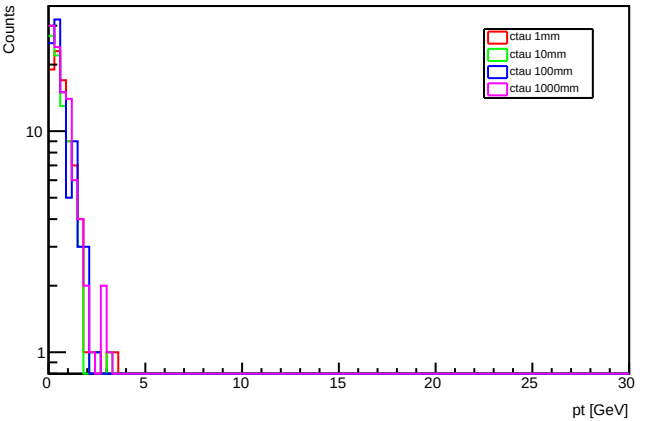
gen all Mu vz: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



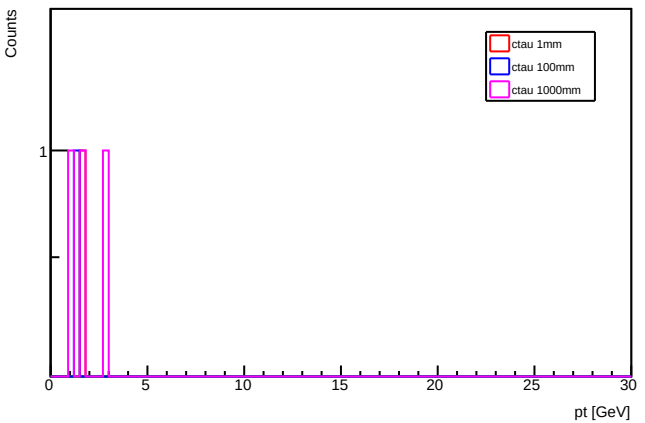
gen subleading Mu pt: no cuts



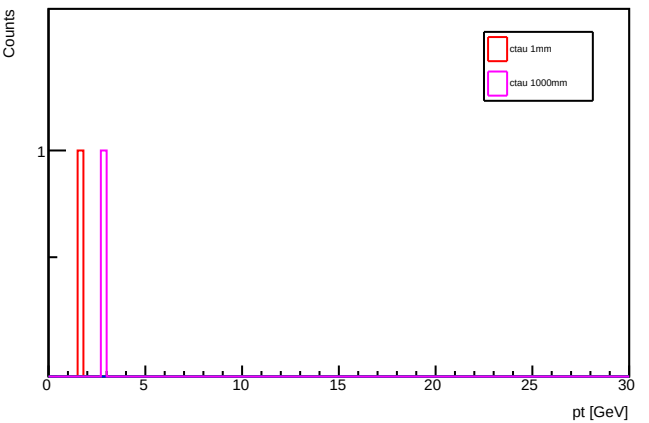
gen subleading Mu pt: n_jet >=1, j1pt > 30 GeV



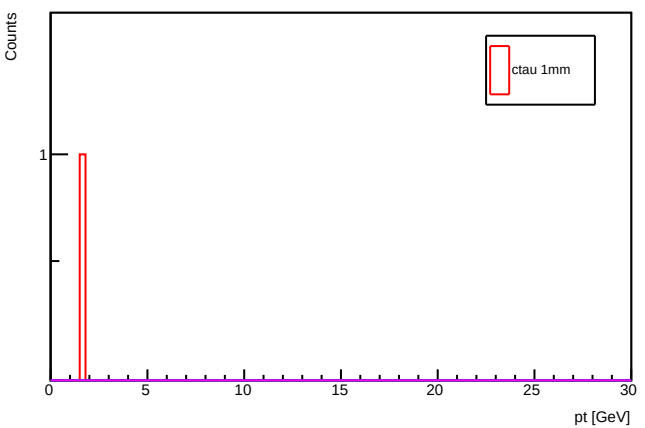
gen subleading Mu pt: MET > 120 GeV



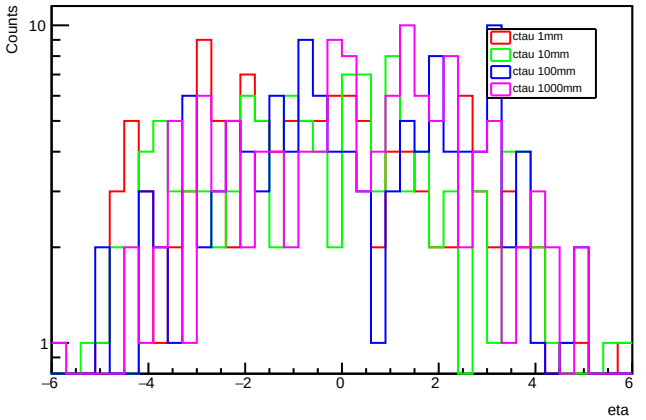
5 Gev (10%) leading vs subleading Mu pt: j1pt >120, at most 2 jets w/ pt >30 GeV



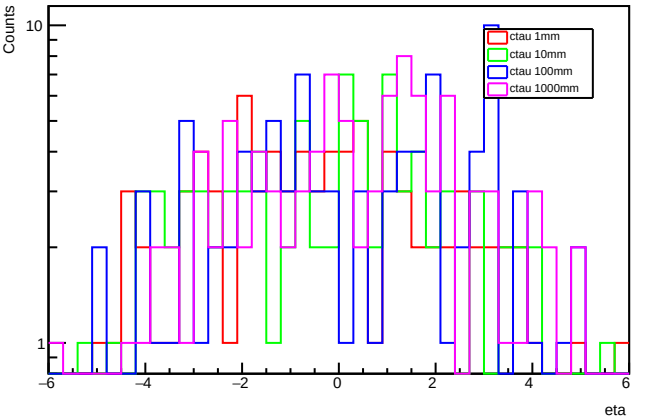
5 Gev (10%) leading vs subleading Mu pt: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



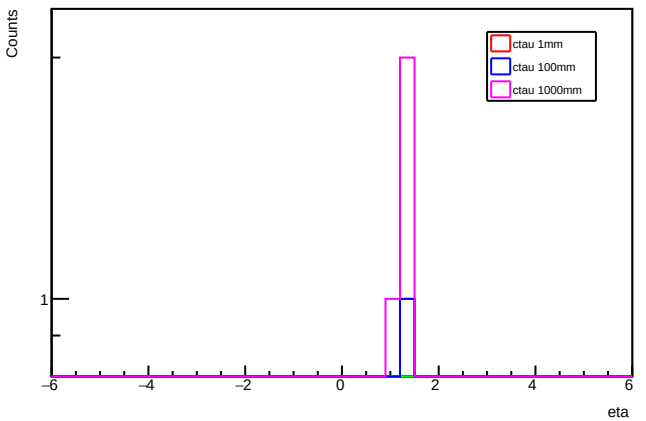
gen subleading Mu eta: no cuts



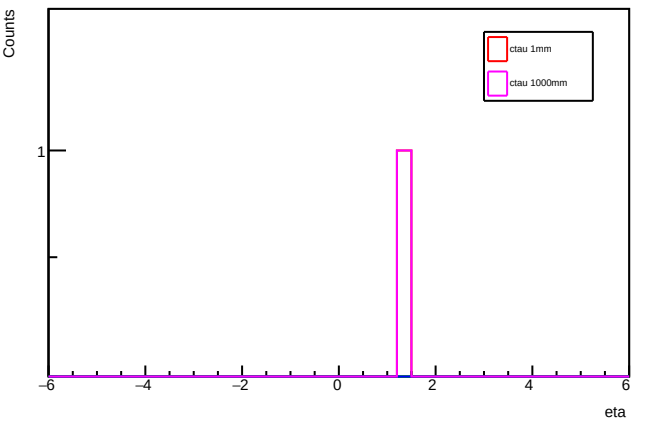
gen subleading Mu eta: n_jet >=1, j1pt > 30 GeV



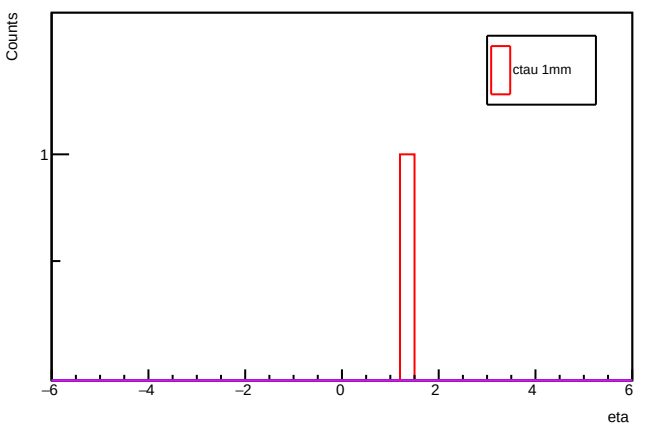
gen subleading Mu eta: MET > 120 GeV



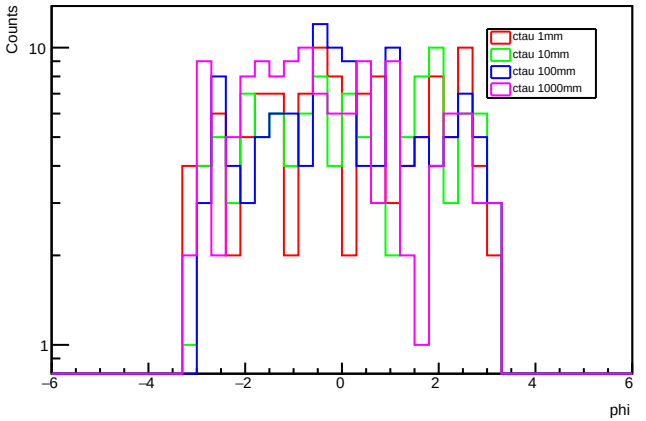
gen subleading Mu eta: j1pt >120, at most 2 jets w/ pt >30 GeV



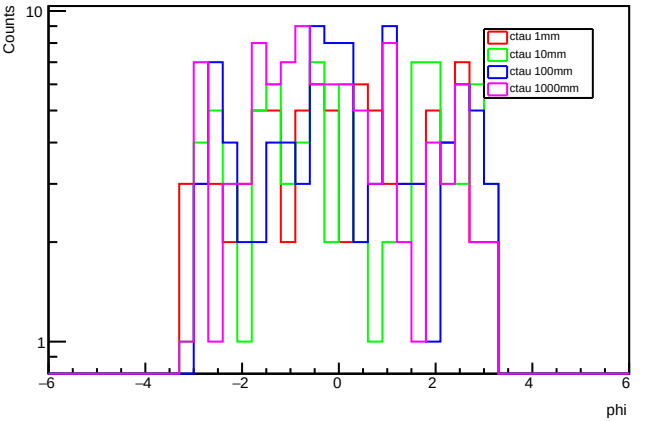
gen subleading Mu eta: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



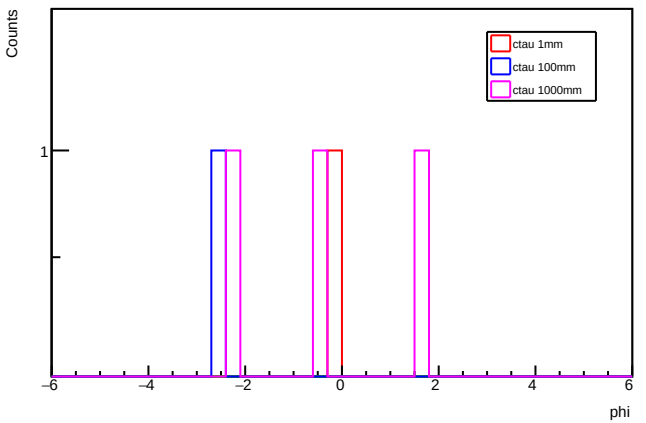
gen subleading Mu phi: no cuts



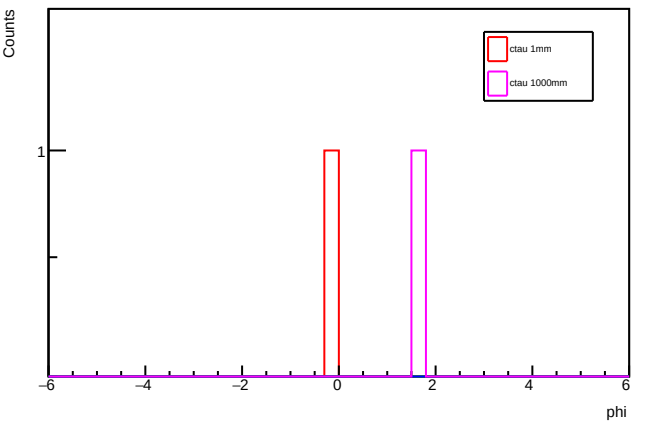
gen subleading Mu phi: n_jet >=1, j1pt > 30 GeV



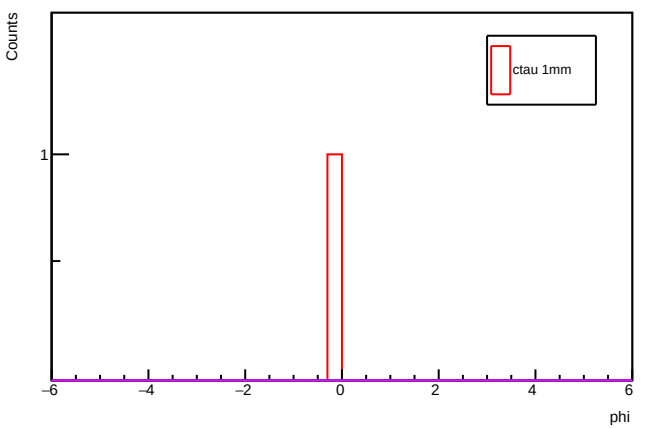
gen subleading Mu phi: MET > 120 GeV



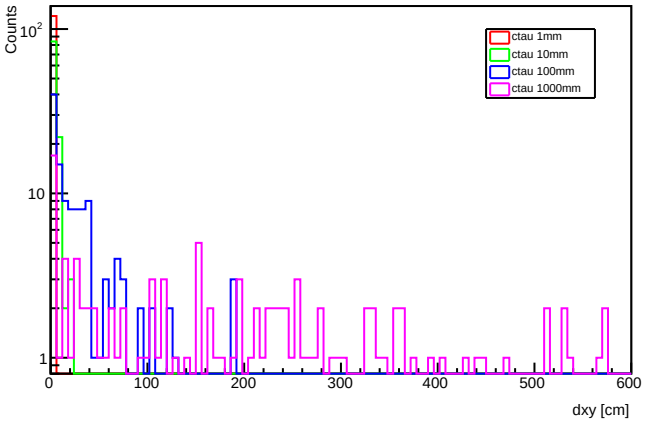
gen subleading Mu phi: j1pt >120, at most 2 jets w/ pt >30 GeV



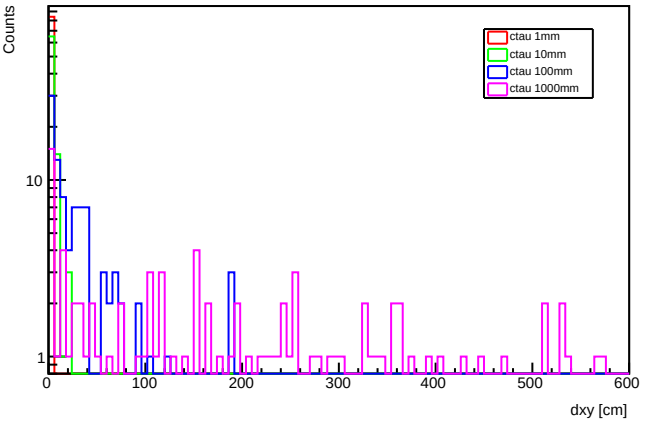
gen subleading Mu phi: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



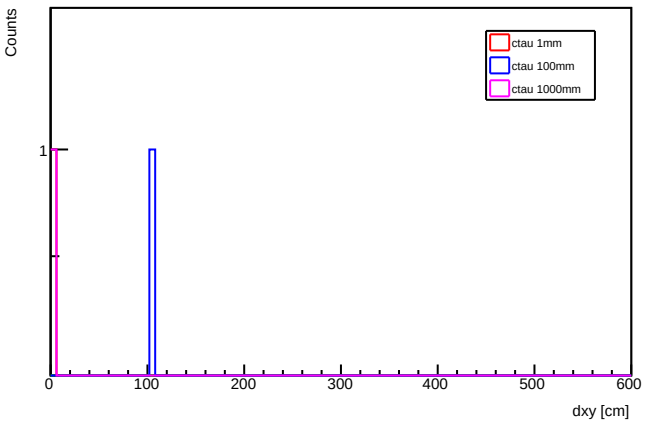
gen subleading Mu vxy: no cuts



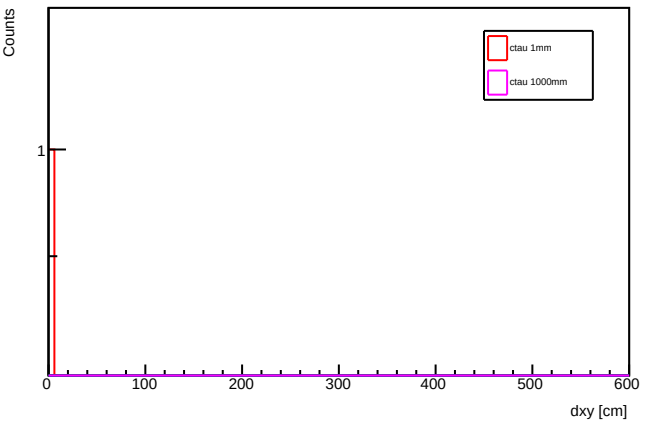
gen subleading Mu vxy: n_jet >=1, j1pt > 30 GeV



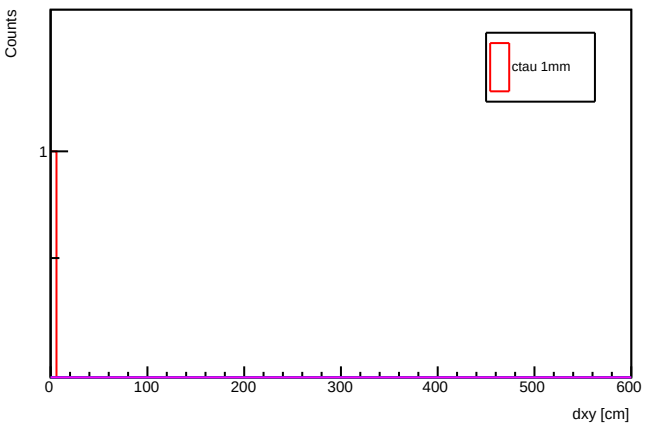
gen subleading Mu vxy: MET > 120 GeV



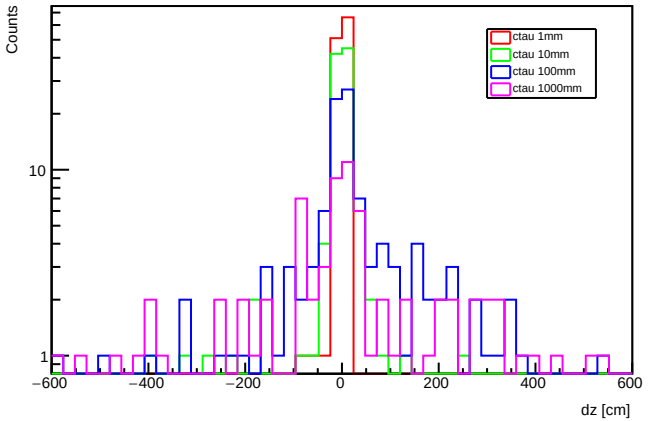
gen subleading Mu vxy: j1pt >120, at most 2 jets w/ pt >30 GeV



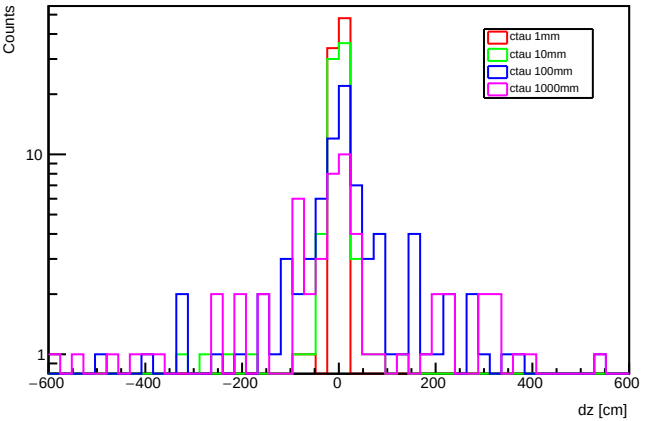
gen subleading Mu vxy: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



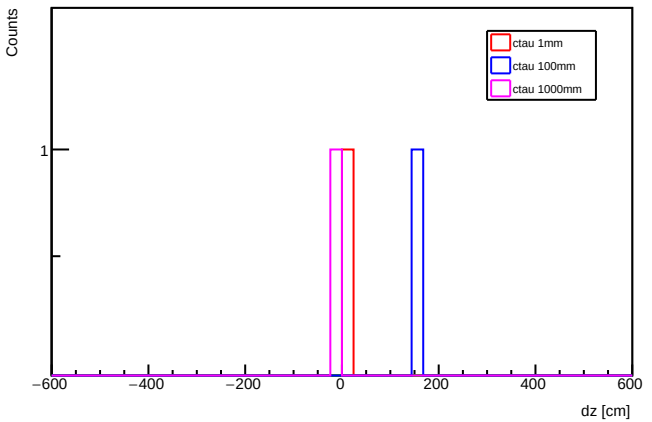
gen subleading Mu vz: no cuts



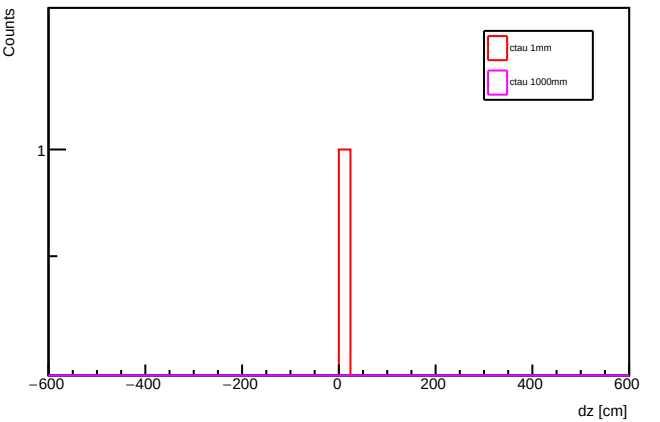
gen subleading Mu vz: n_jet >=1, j1pt > 30 GeV



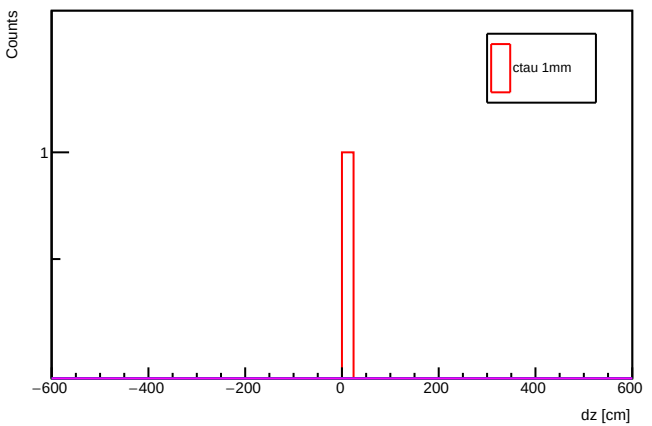
gen subleading Mu vz: MET > 120 GeV



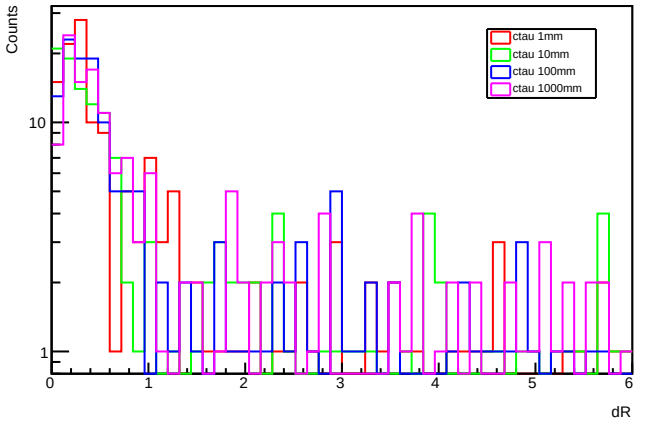
gen subleading Mu vz: j1pt >120, at most 2 jets w/ pt >30 GeV



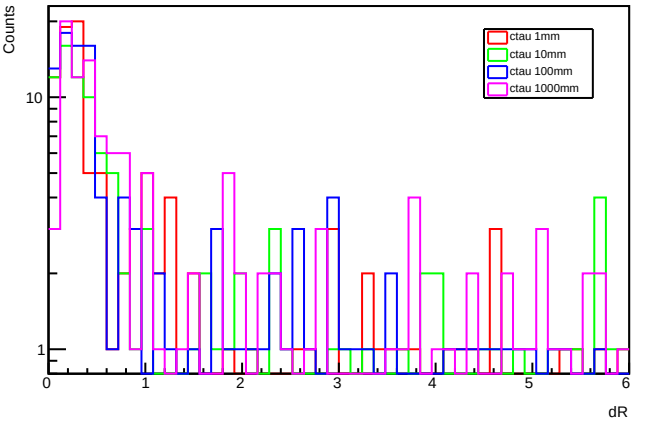
gen subleading Mu vz: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



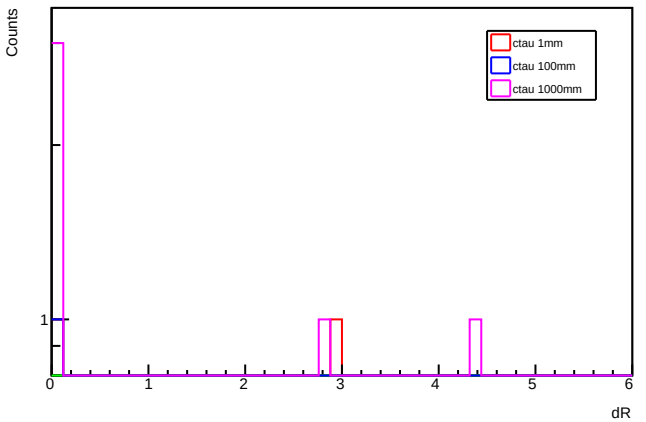
dR: gen leading mu and subleading mu: no cuts



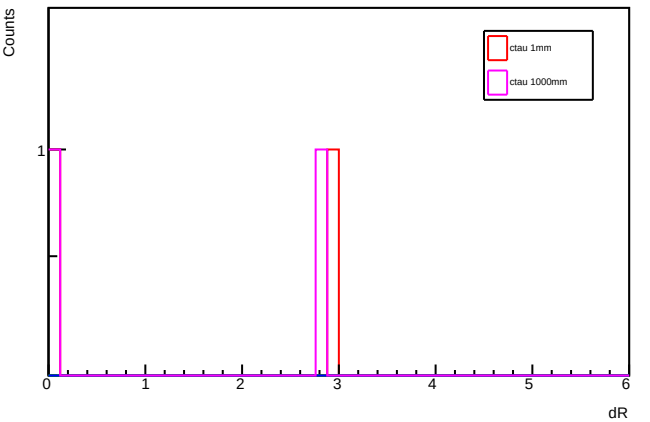
dR: gen leading mu and subleading mu: n_jet >=1, j1pt > 30 GeV



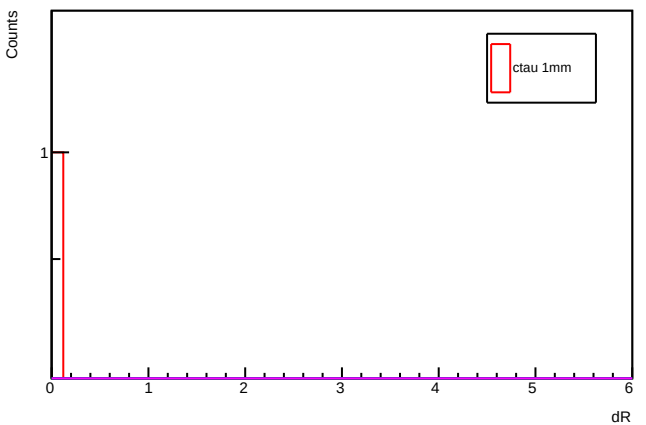
dR: gen leading mu and subleading mu: MET > 120 GeV



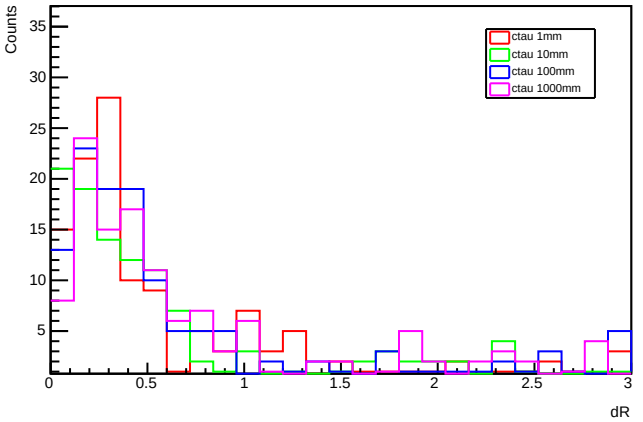
dR: gen leading mu and subleading mu: j1pt >120, at most 2 jets w/ pt >30 GeV



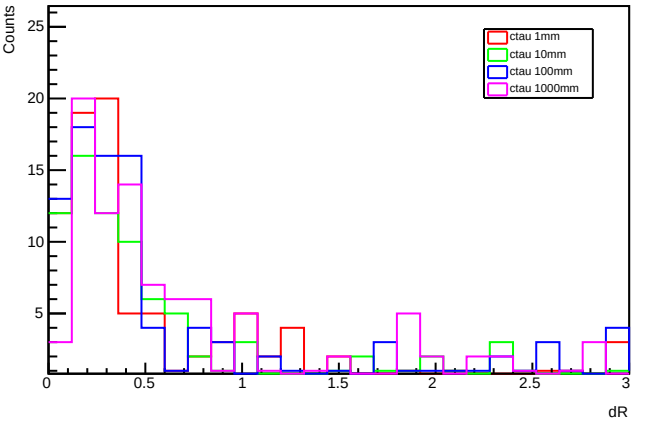
dR: gen leading mu and subleading mu: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



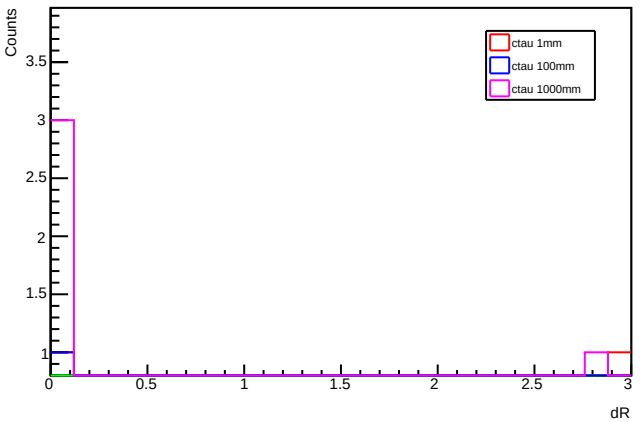
dR: gen leading mu and subleading mu: no cuts



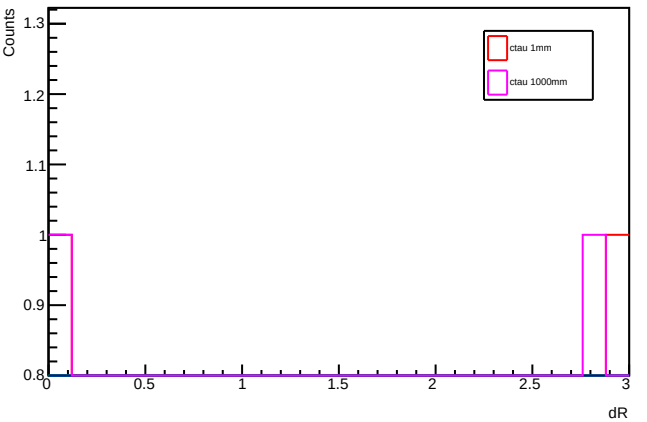
dR: gen leading mu and subleading mu: n_jet >=1, j1pt > 30 GeV



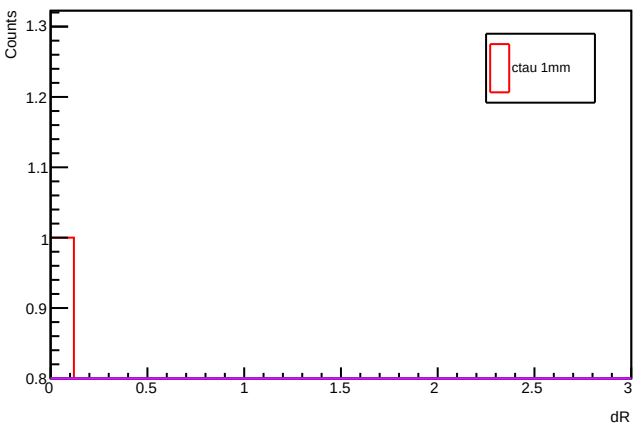
dR: gen leading mu and subleading mu: MET > 120 GeV



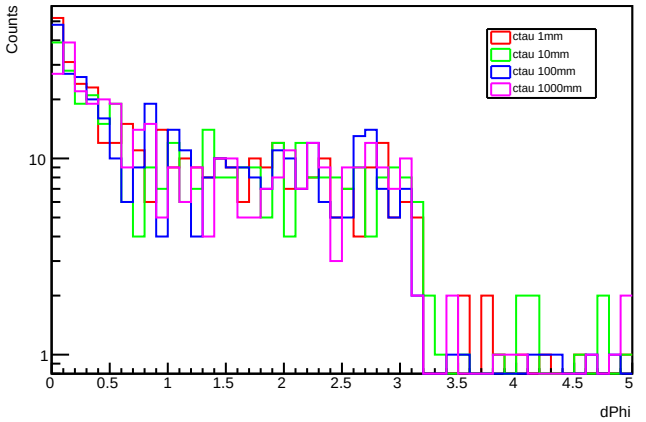
dR: gen leading mu and subleading mu: j1pt >120, at most 2 jets w/ pt >30 GeV



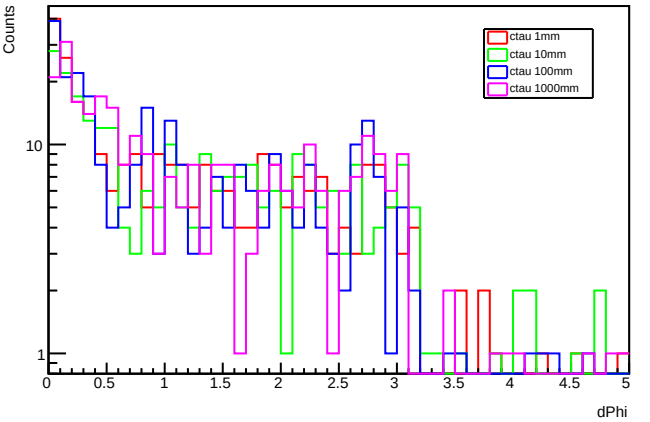
dR: gen leading mu and subleading mu: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



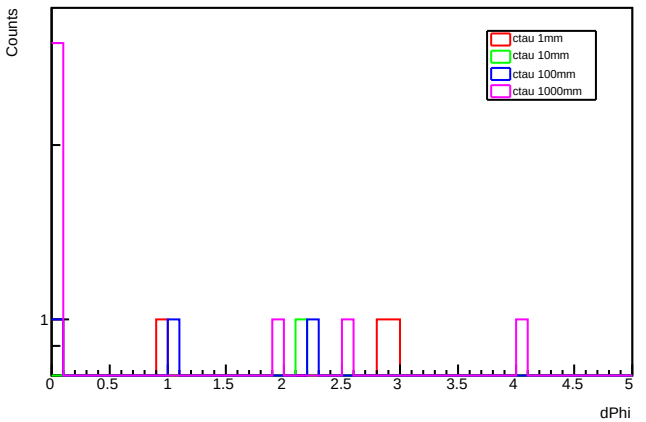
dPhi: gen MET and leading mu: no cuts



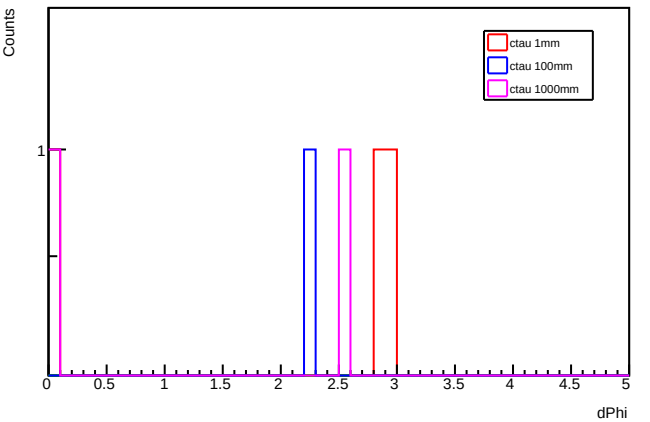
dPhi: gen MET and leading mu: n_jet >=1, j1pt > 30 GeV



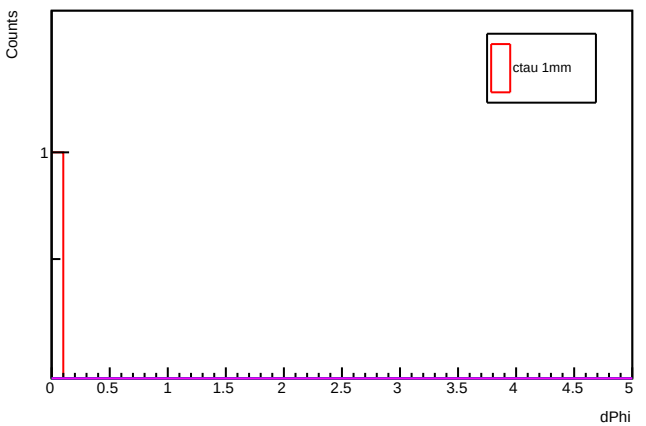
dPhi: gen MET and leading mu: MET > 120 GeV



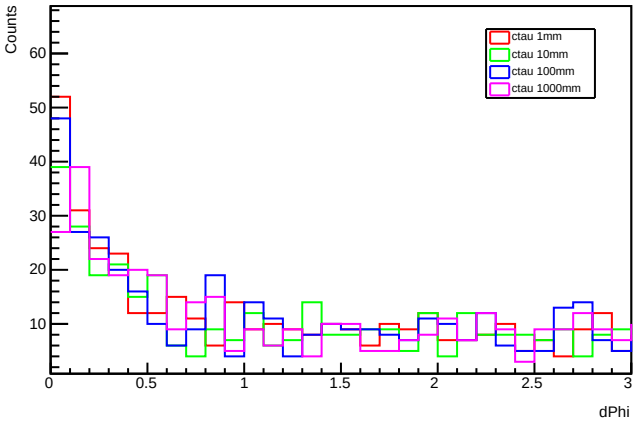
dPhi: gen MET and leading mu: j1pt >120, at most 2 jets w/ pt >30 GeV



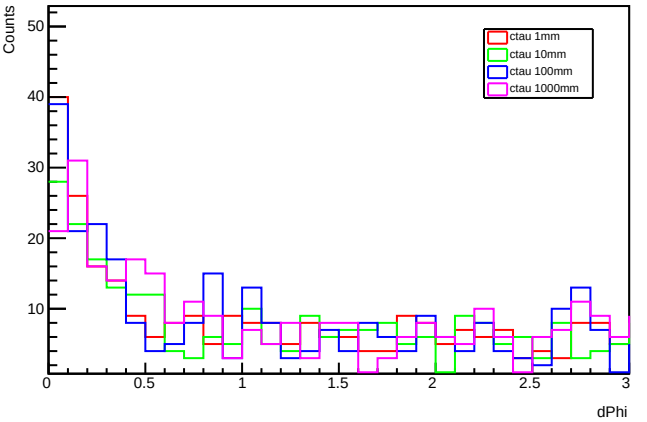
dPhi: gen MET and leading mu: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



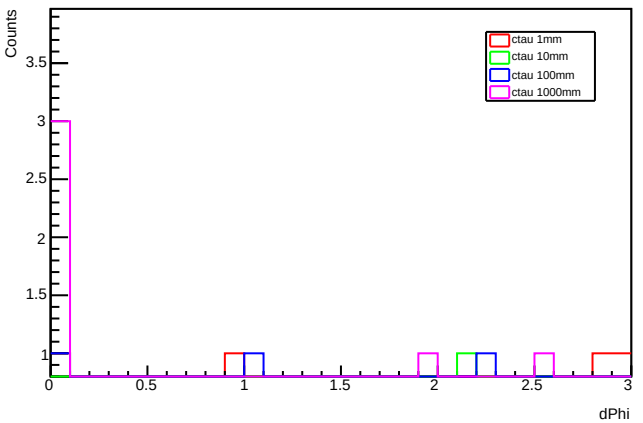
dPhi: gen MET and leading mu: no cuts



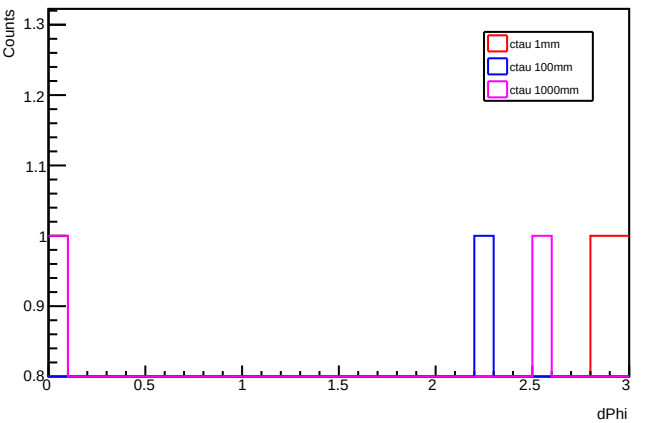
dPhi: gen MET and leading mu: n_jet >=1, j1pt > 30 GeV



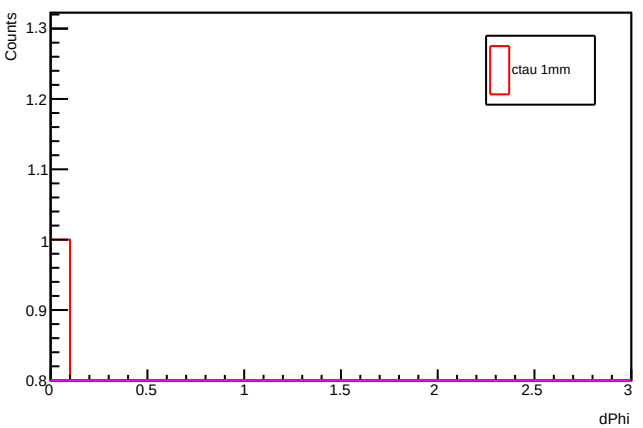
dPhi: gen MET and leading mu: MET > 120 GeV



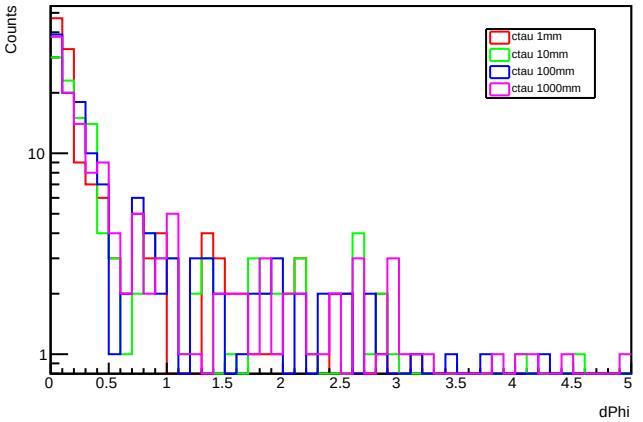
dPhi: gen MET and leading mu: j1pt >120, at most 2 jets w/ pt >30 GeV



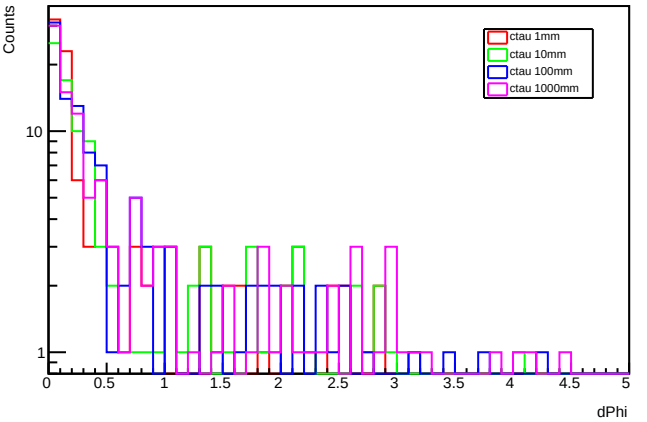
dPhi: gen MET and leading mu: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



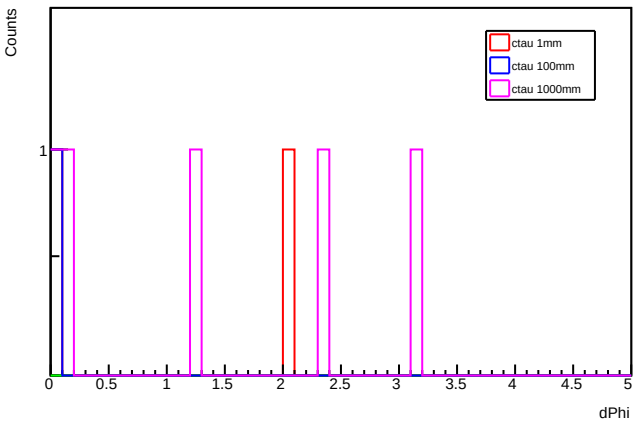
dPhi: gen leading mu and subleading mu: no cuts



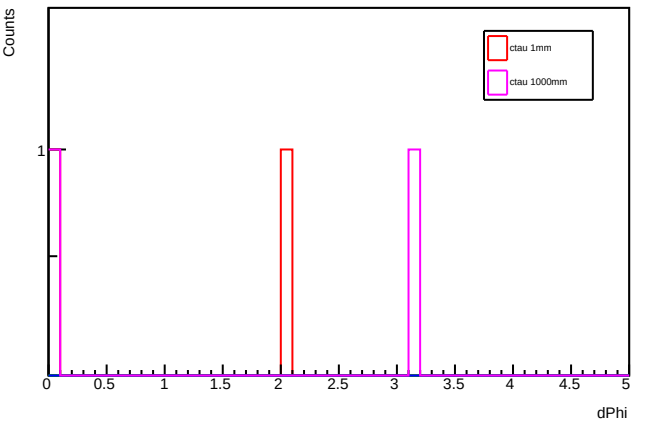
dPhi: gen leading mu and subleading mu: n_jet >=1, j1pt > 30 GeV



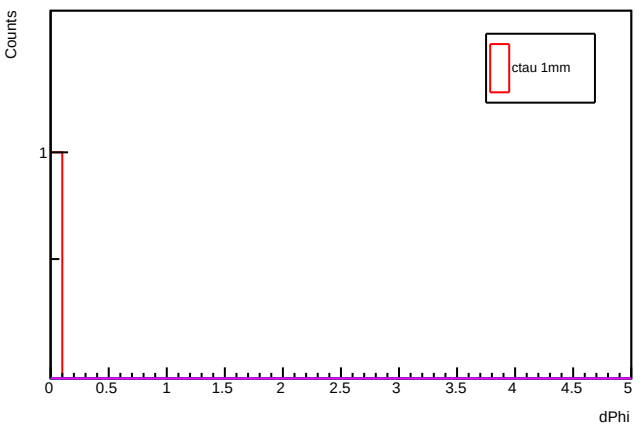
dPhi: gen leading mu and subleading mu: MET > 120 GeV



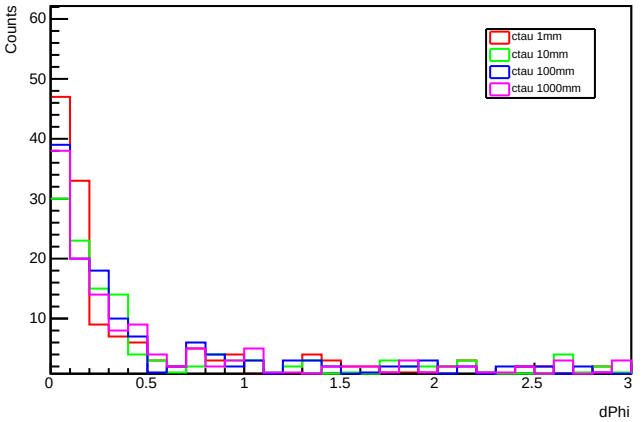
dPhi: gen leading mu and subleading mu: j1pt >120, at most 2 jets w/ pt >30 GeV



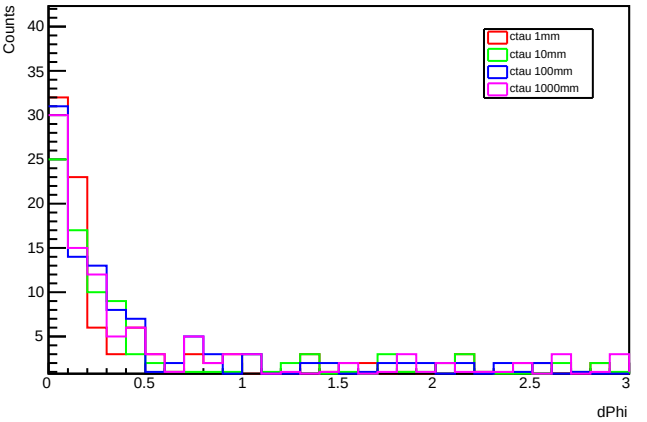
dPhi: gen leading mu and subleading mu: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



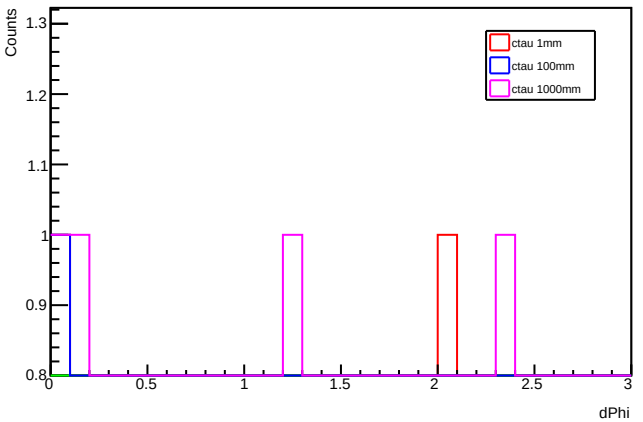
dPhi: gen leading mu and subleading mu: no cuts



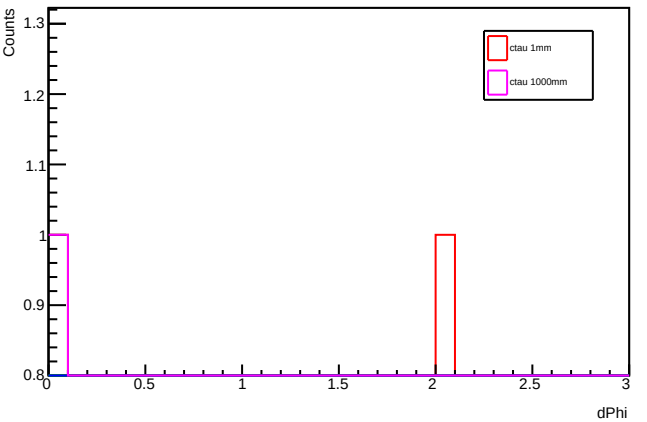
dPhi: gen leading mu and subleading mu: n_jet >=1, j1pt > 30 GeV



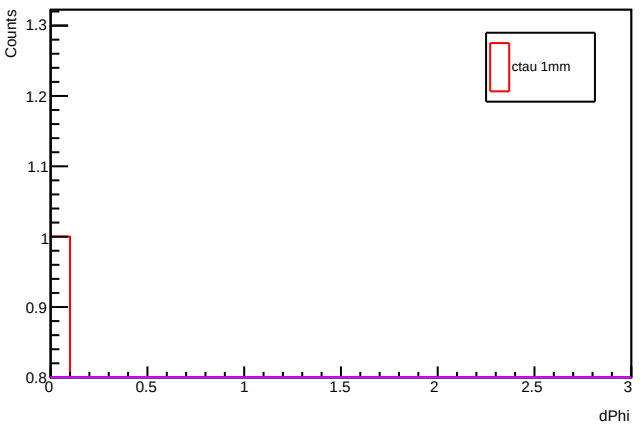
dPhi: gen leading mu and subleading mu: MET > 120 GeV



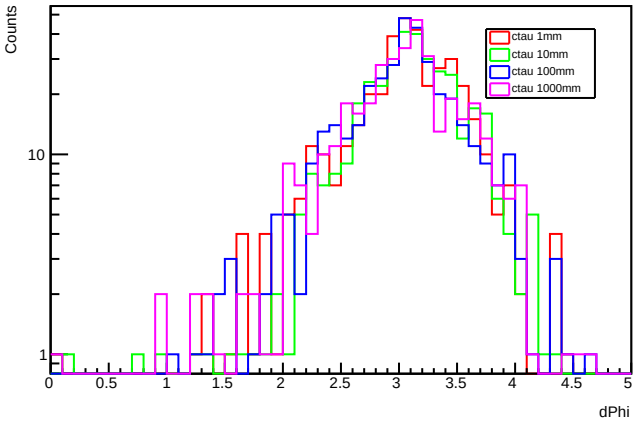
dPhi: gen leading mu and subleading mu: j1pt >120, at most 2 jets w/ pt >30 GeV



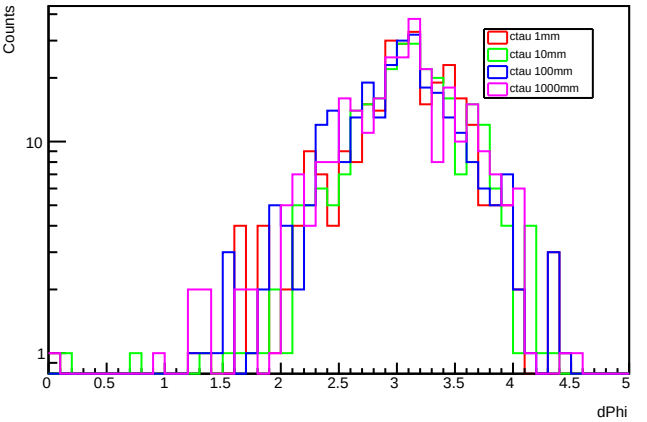
dPhi: gen leading mu and subleading mu: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



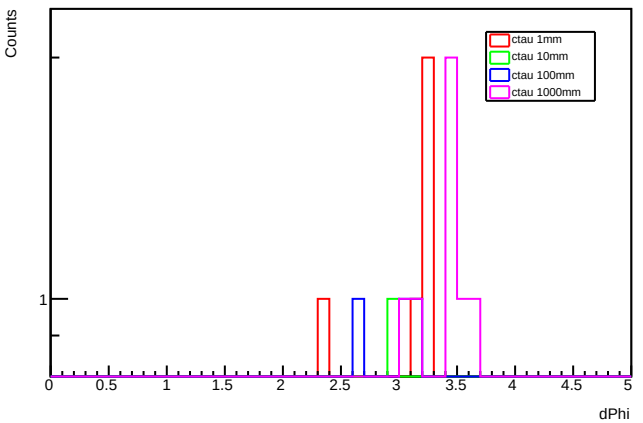
dPhi: gen MET and leading jet: no cuts



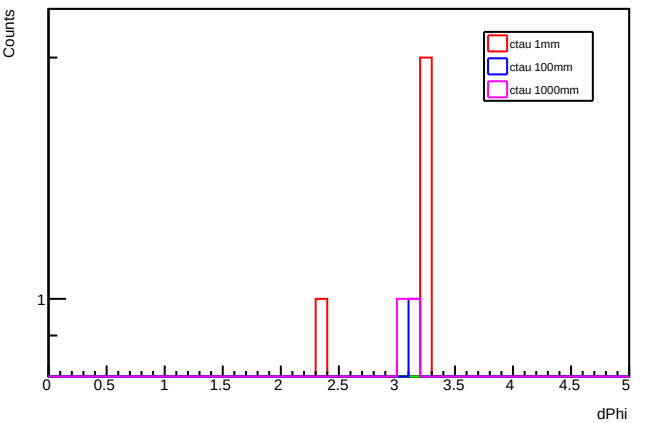
dPhi: gen MET and leading jet: n_jet >=1, j1pt > 30 GeV



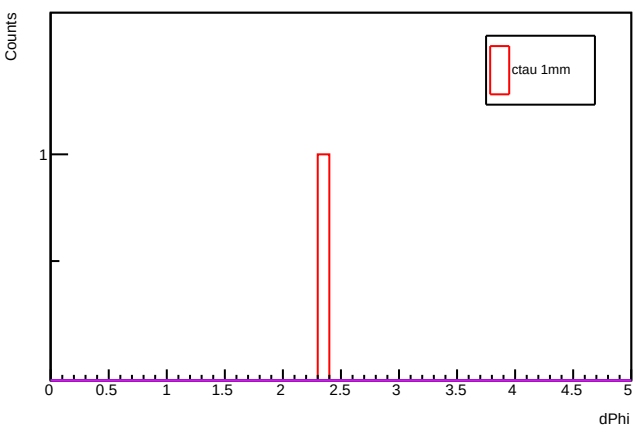
dPhi: gen MET and leading jet: MET > 120 GeV



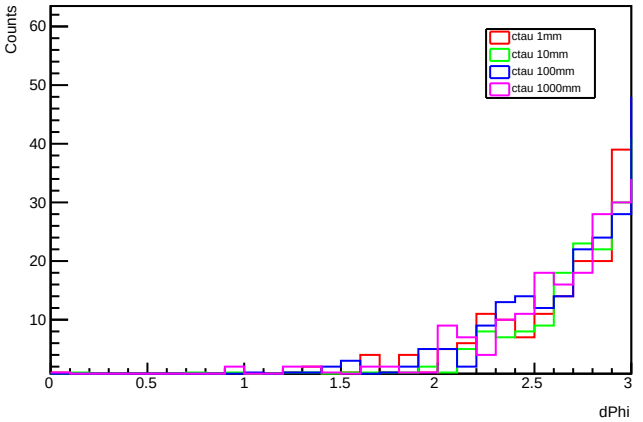
dPhi: gen MET and leading jet: j1pt >120, at most 2 jets w/ pt >30 GeV



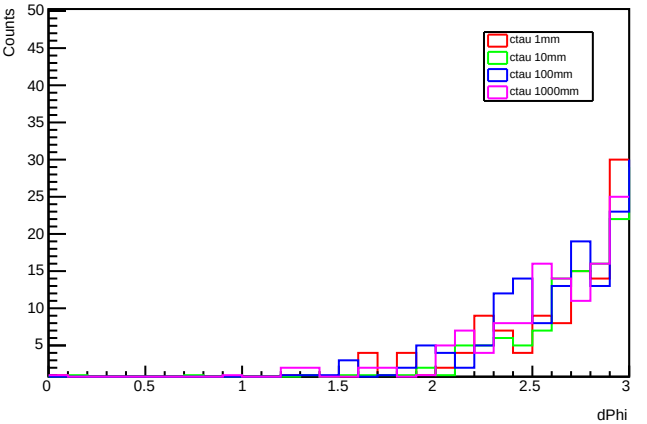
dPhi: gen MET and leading jet: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



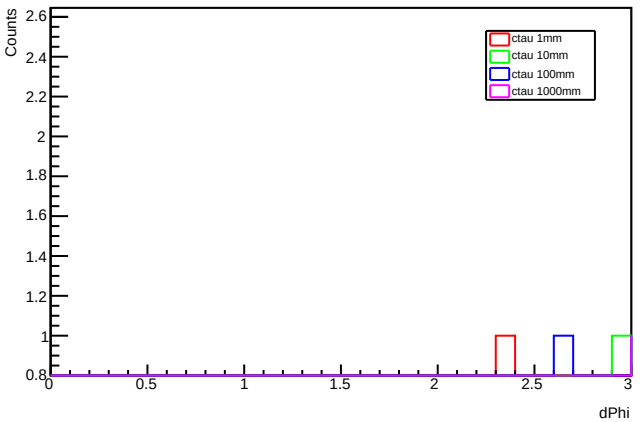
dPhi: gen MET and leading jet: no cuts



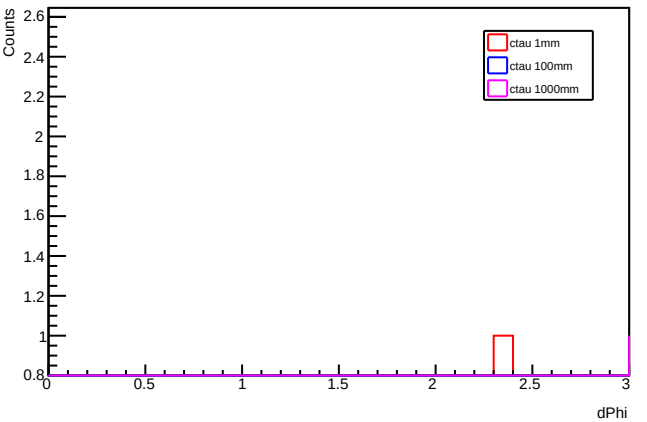
dPhi: gen MET and leading jet: n_jet >=1, j1pt > 30 GeV



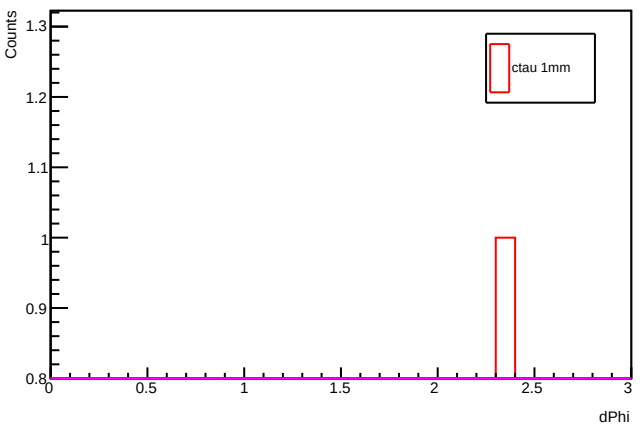
dPhi: gen MET and leading jet: MET > 120 GeV



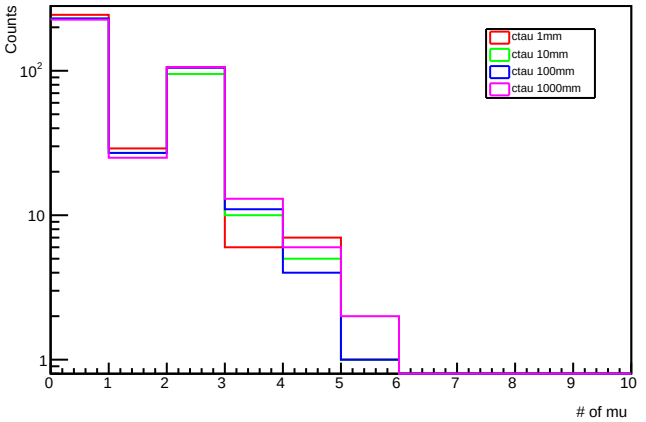
dPhi: gen MET and leading jet: j1pt >120, at most 2 jets w/ pt >30 GeV



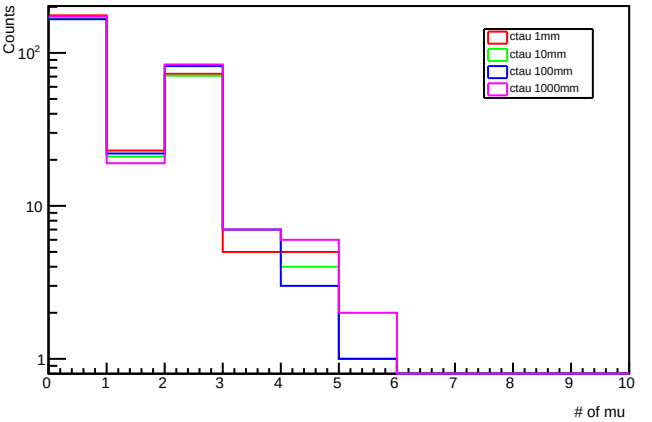
dPhi: gen MET and leading jet: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



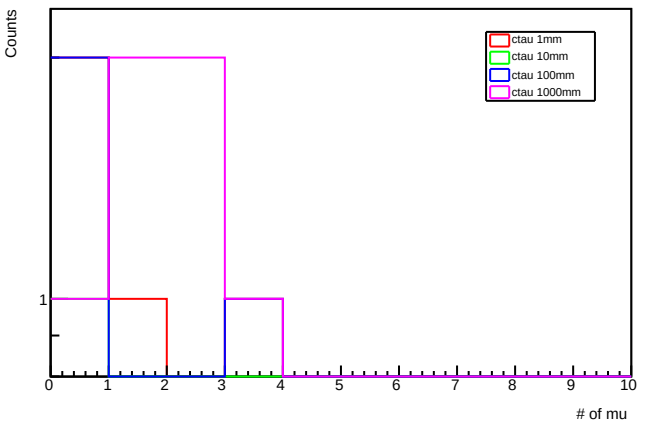
gen number of mu: no cuts



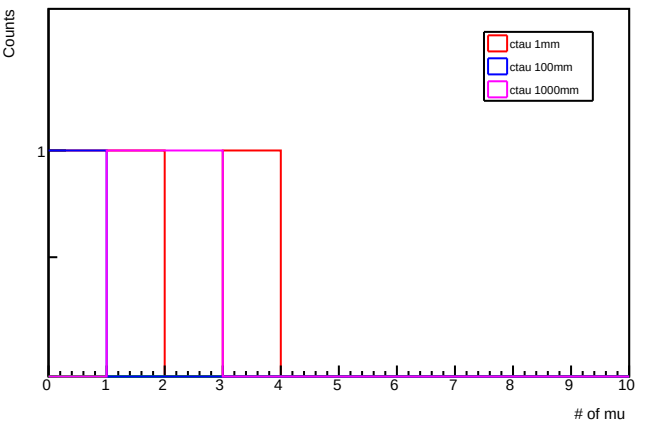
gen number of mu: n_jet >=1, j1pt > 30 GeV



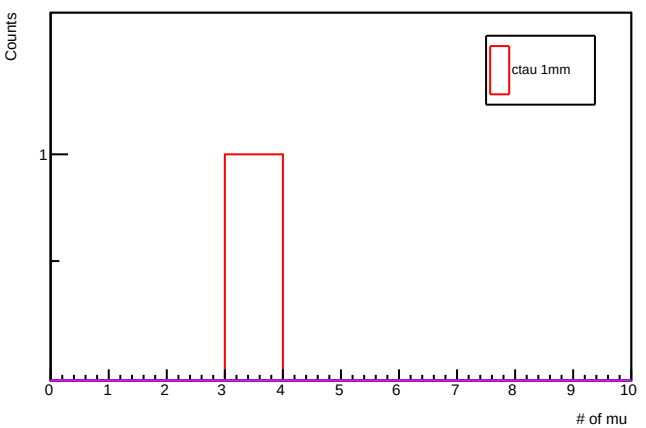
gen number of mu: MET > 120 GeV



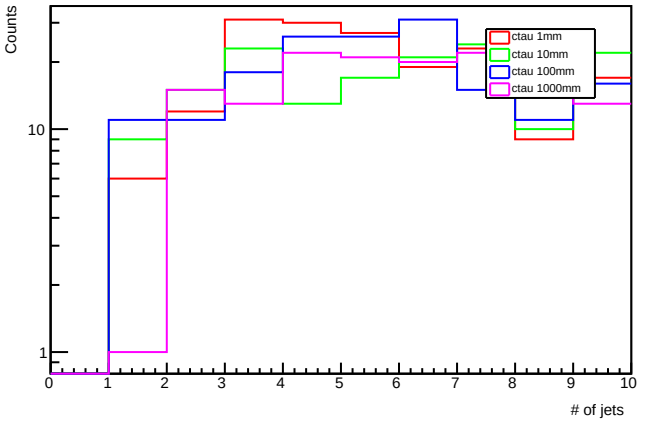
gen number of mu: j1pt >120, at most 2 jets w/ pt >30 GeV



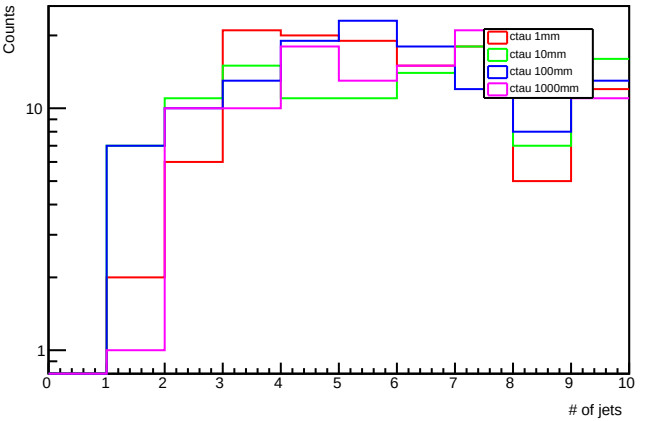
gen number of mu: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



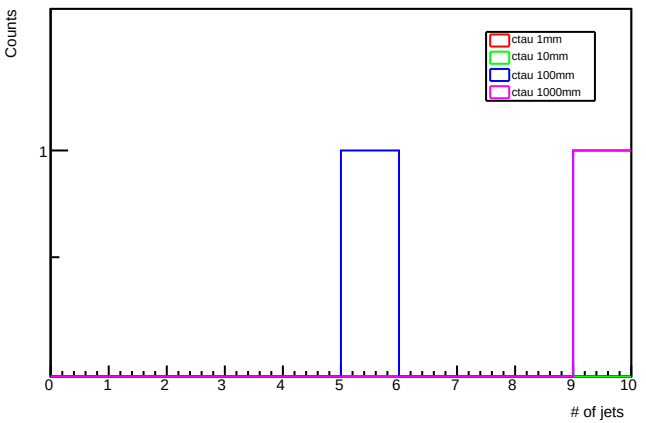
gen number of jets: no cuts



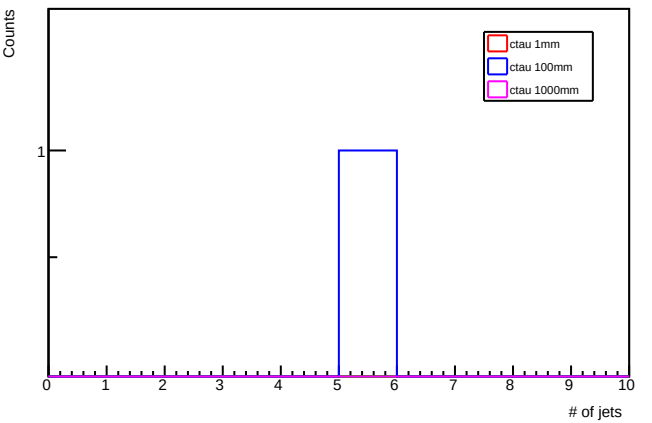
gen number of jets: n_jet >=1, j1pt > 30 GeV



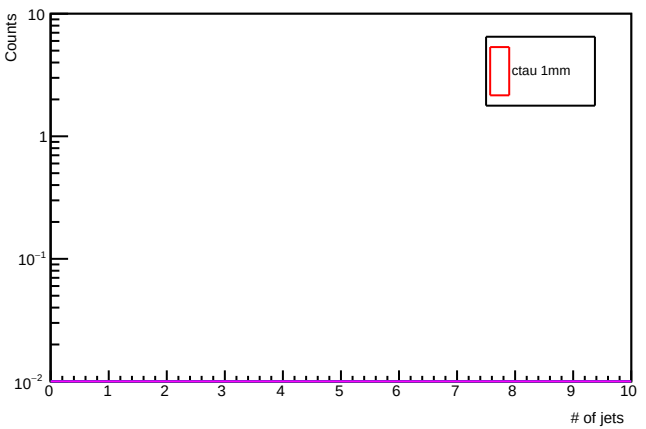
gen number of jets: MET > 120 GeV



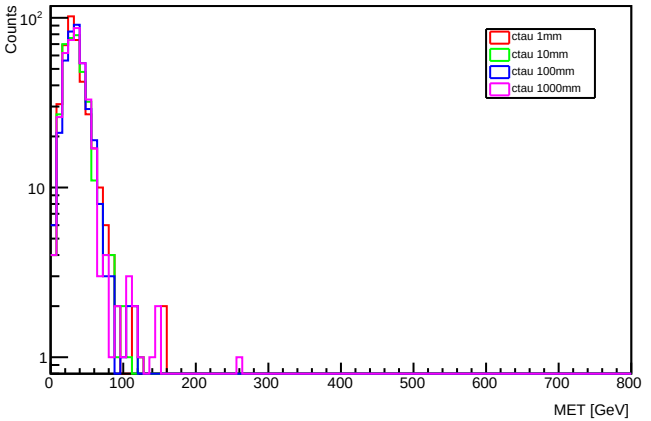
gen number of jets: j1pt >120, at most 2 jets w/ pt >30 GeV



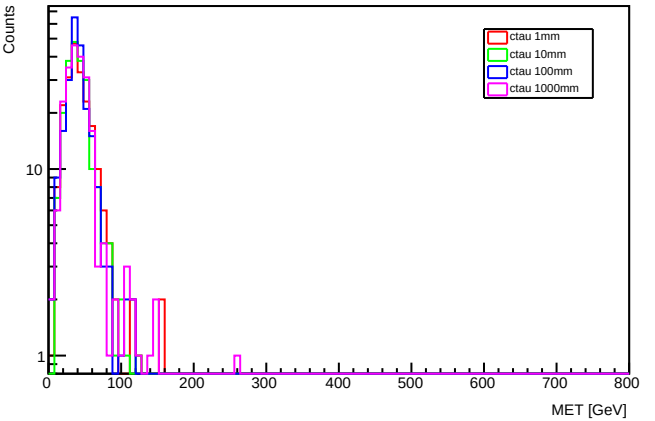
gen number of jets: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



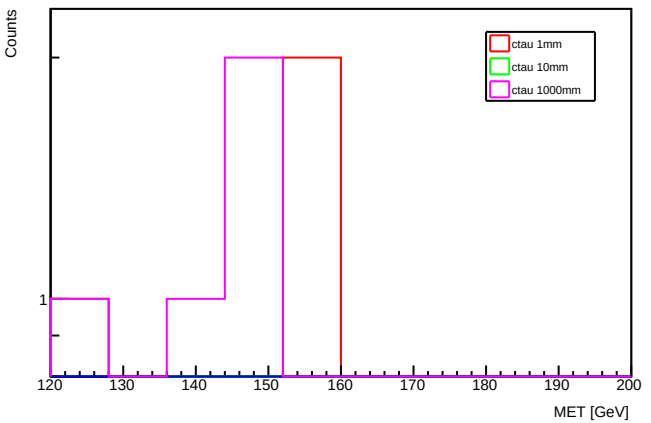
reco leading MET: no cuts



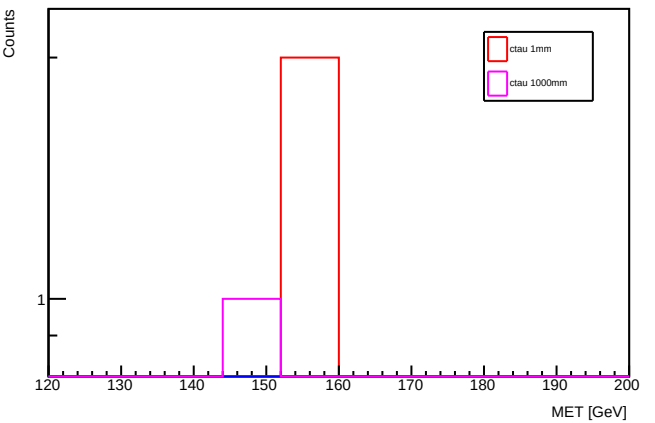
reco leading MET: n_jet >=1, j1pt > 30 GeV



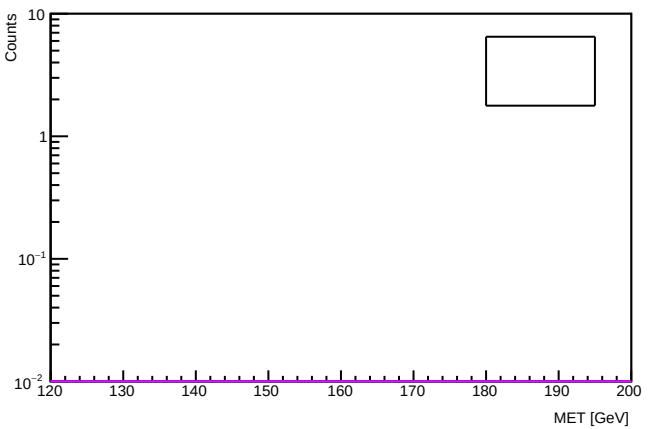
reco leading MET: MET > 120 GeV



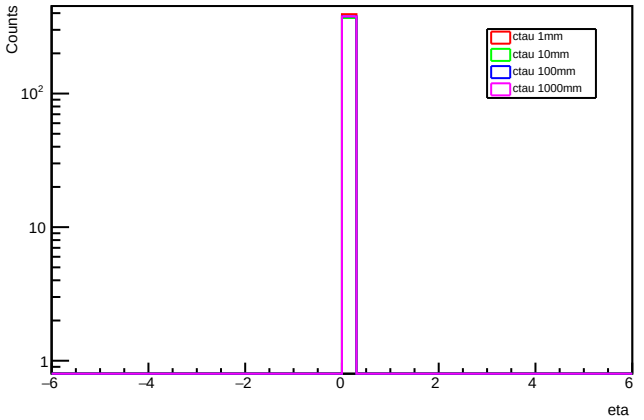
reco leading MET: j1pt >120, at most 2 jets w/ pt >30 GeV



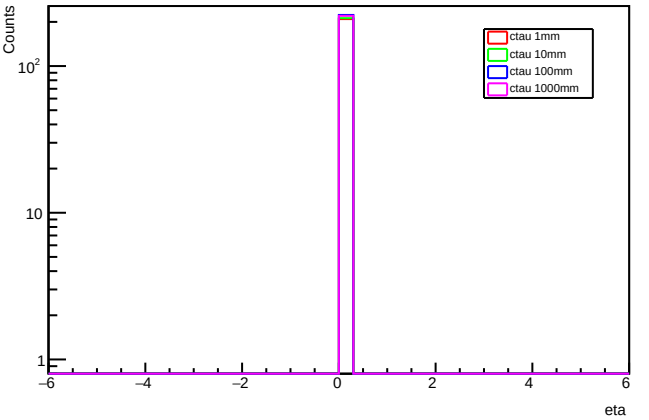
reco leading MET: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



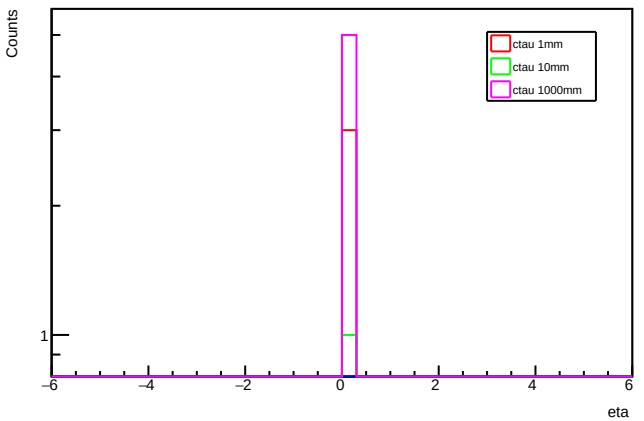
reco leading Met eta: no cuts



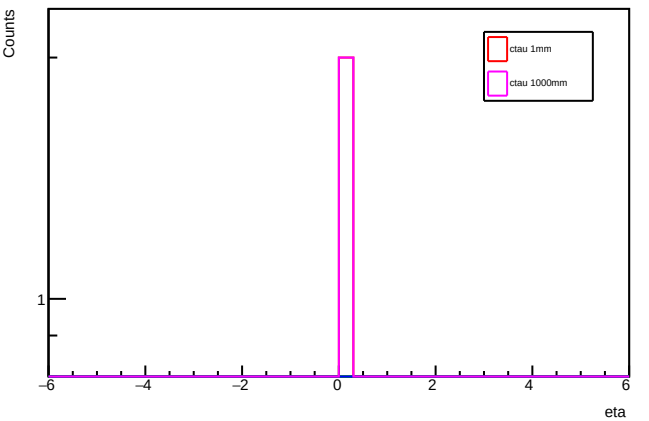
reco leading Met eta: n_jet >=1, j1pt > 30 GeV



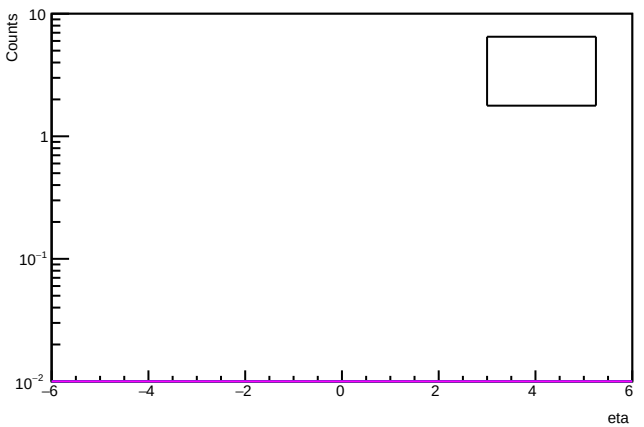
reco leading Met eta: MET > 120 GeV



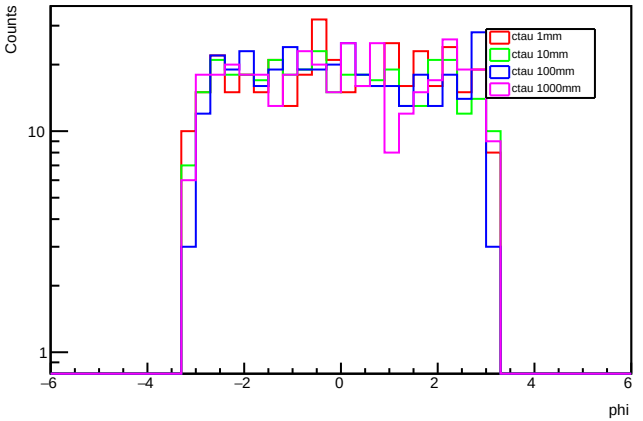
reco leading Met eta: j1pt >120, at most 2 jets w/ pt >30 GeV



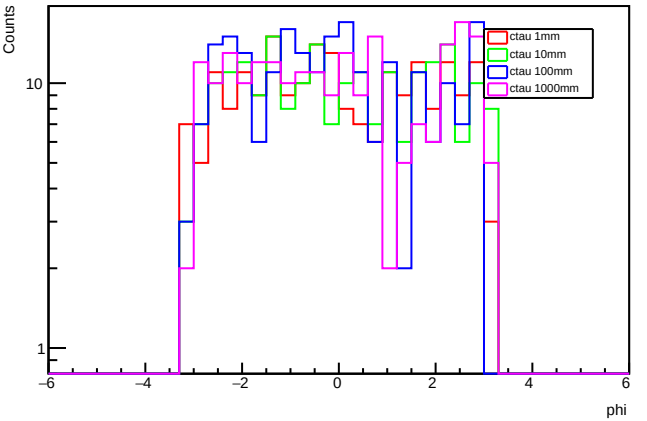
reco leading Met eta: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



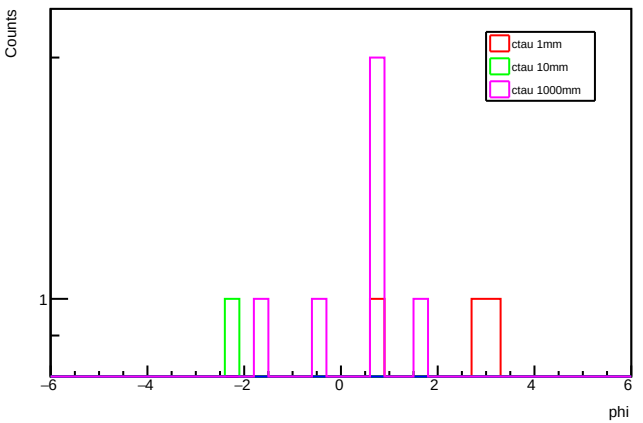
reco leading Met phi: no cuts



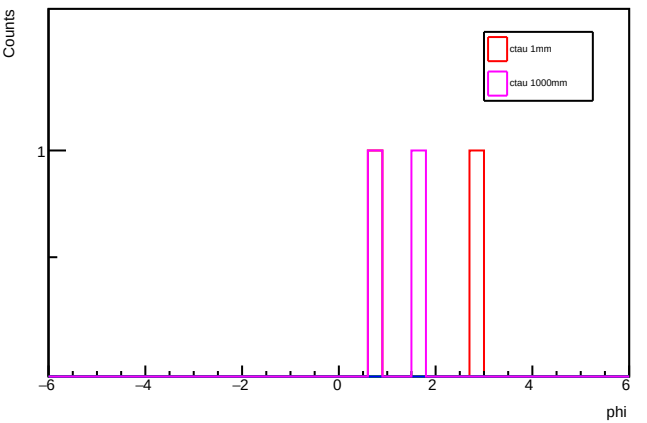
reco leading Met phi: n_jet >=1, j1pt > 30 GeV



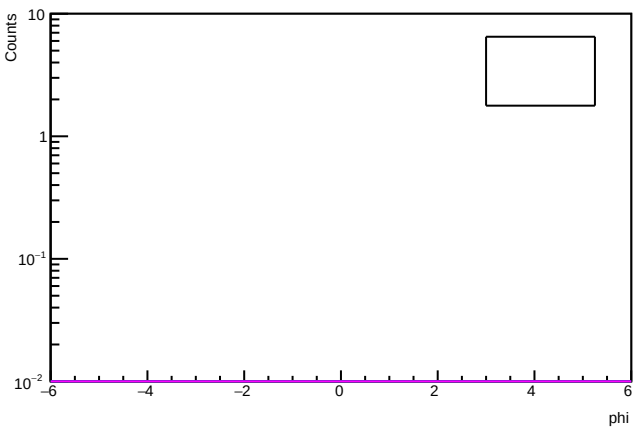
reco leading Met phi: MET > 120 GeV



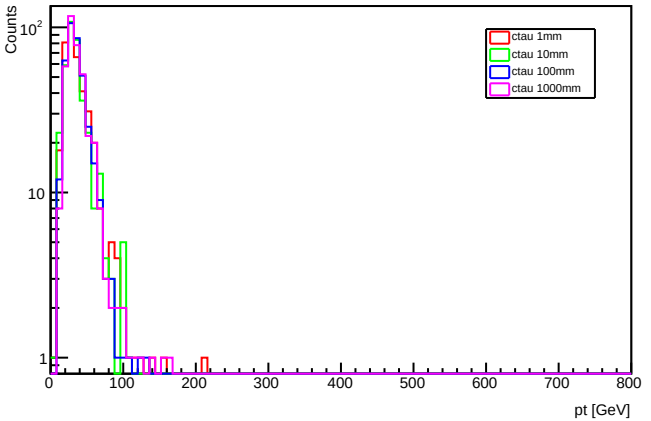
reco leading Met phi: j1pt >120, at most 2 jets w/ pt >30 GeV



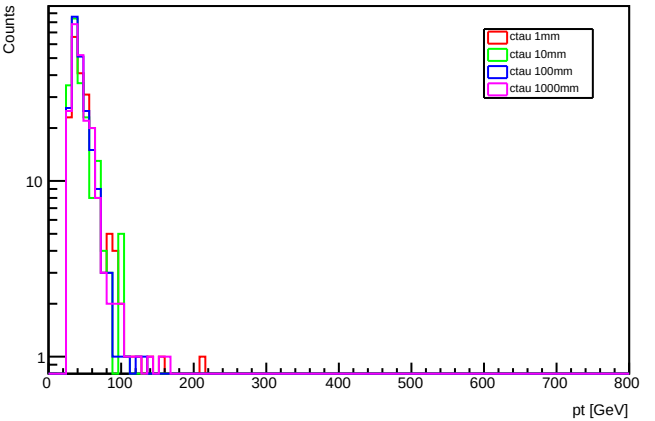
reco leading Met phi: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



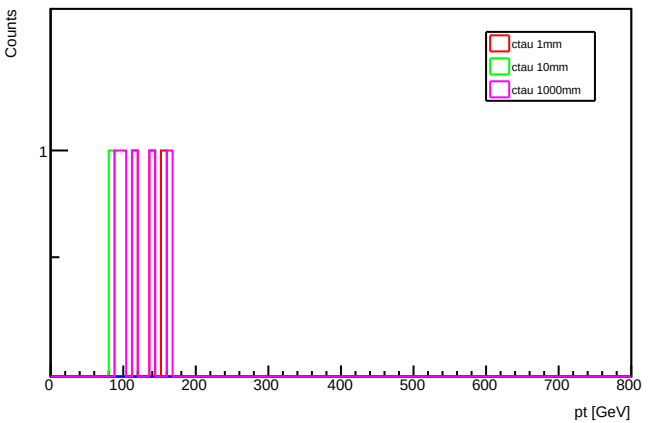
reco leading Jet pt: no cuts



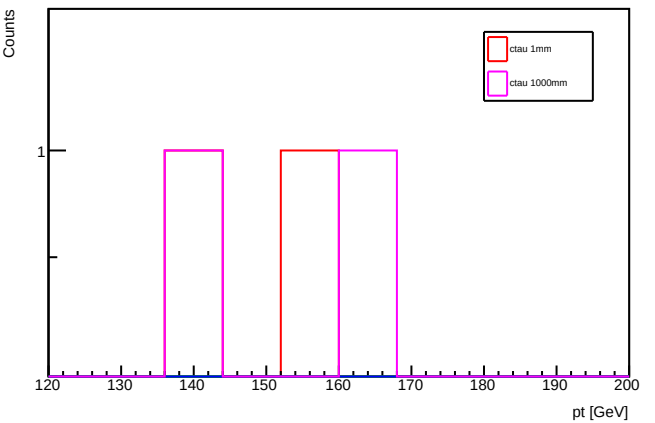
reco leading Jet pt: n_jet >=1, j1pt > 30 GeV



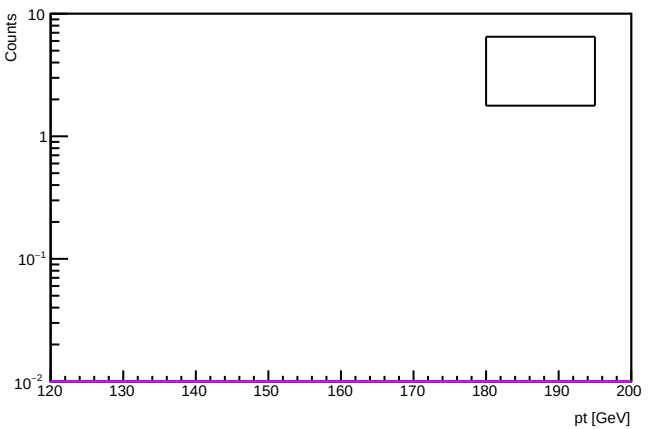
reco leading Jet pt: MET > 120 GeV



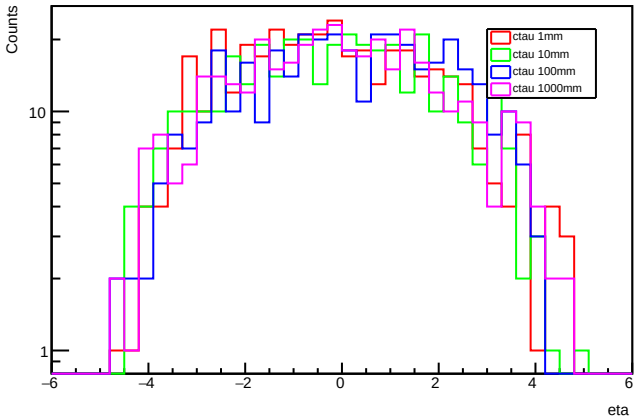
reco leading Jet pt: j1pt >120, at most 2 jets w/ pt >30 GeV



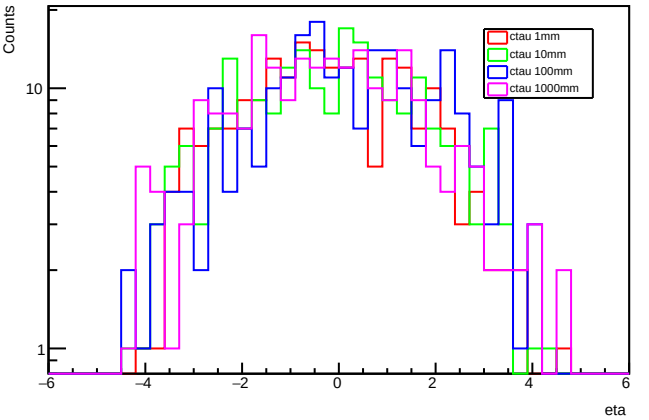
reco leading Jet pt: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



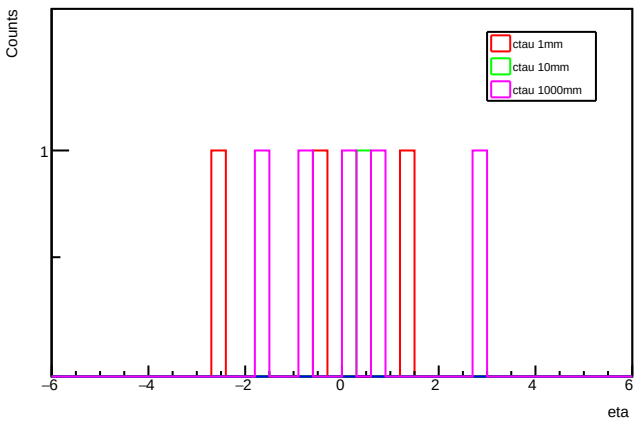
reco leading Jet eta: no cuts



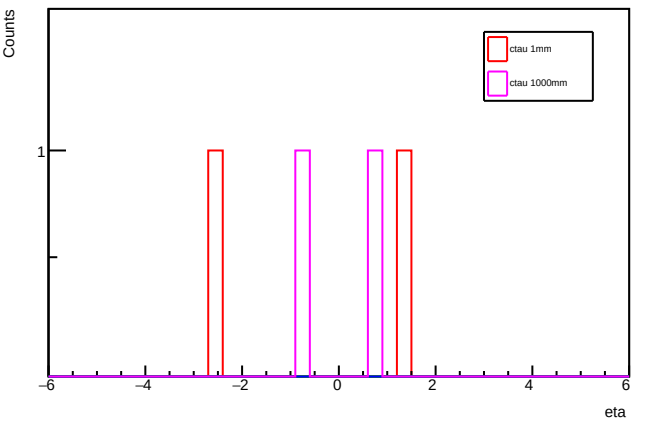
reco leading Jet eta: n_jet >=1, j1pt > 30 GeV



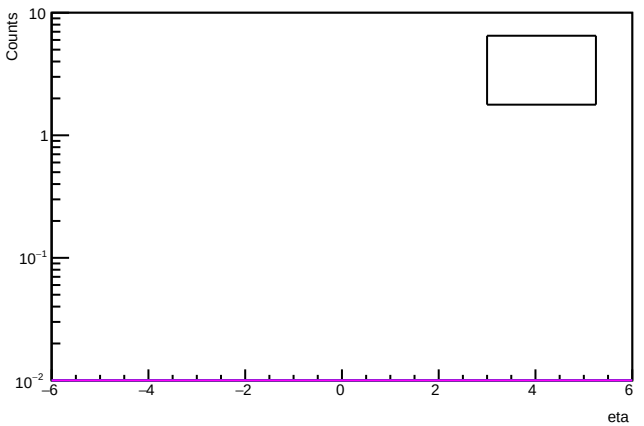
reco leading Jet eta: MET > 120 GeV



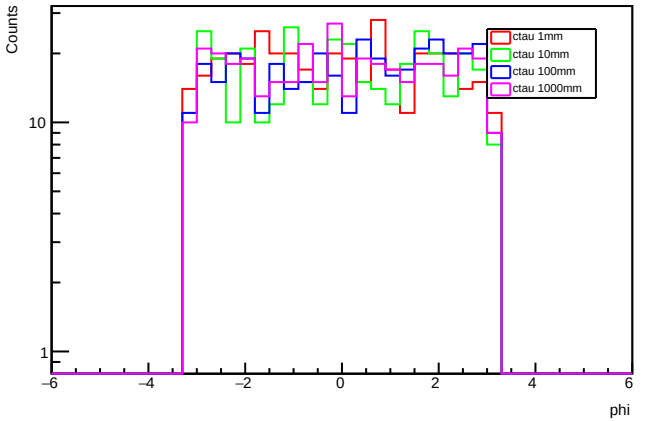
reco leading Jet eta: j1pt >120, at most 2 jets w/ pt >30 GeV



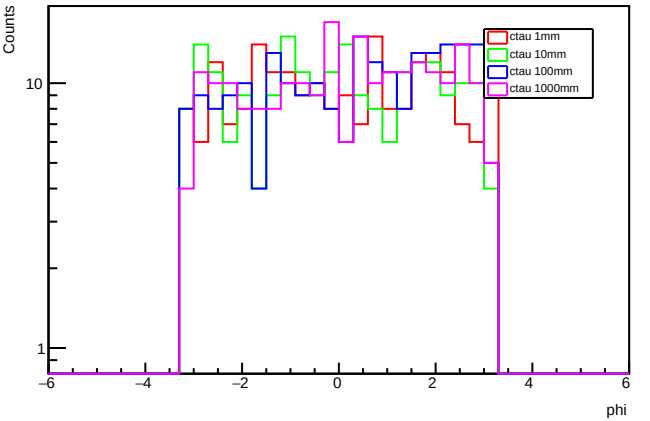
reco leading Jet eta: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



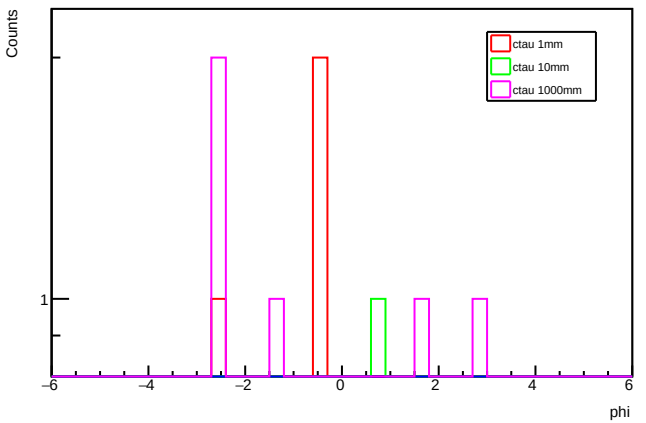
reco leading Jet phi: no cuts



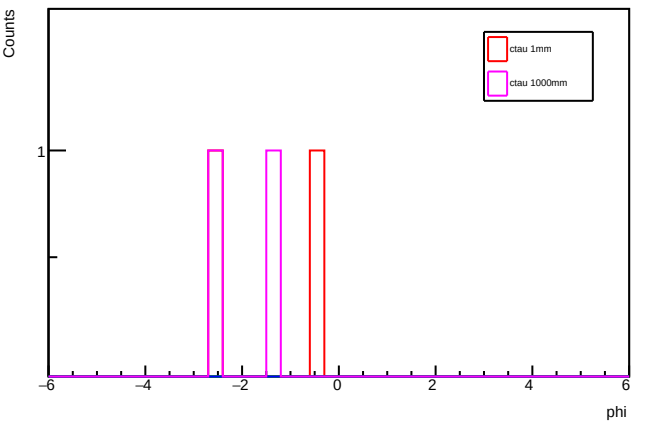
reco leading Jet phi: n_jet >=1, j1pt > 30 GeV



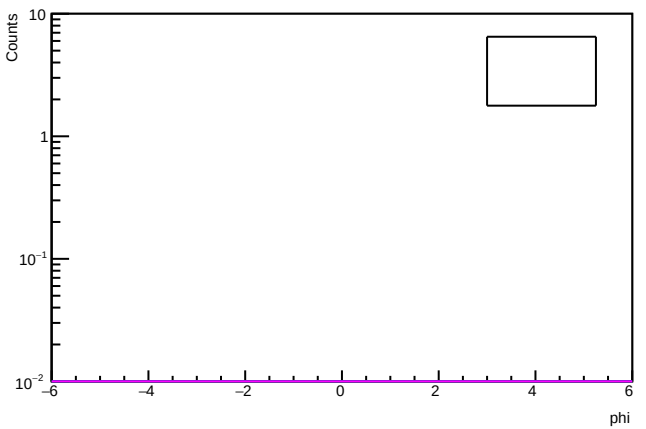
reco leading Jet phi: MET > 120 GeV



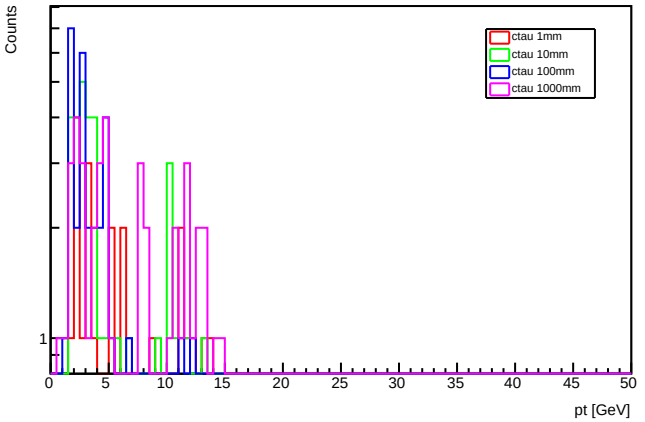
reco leading Jet phi: j1pt >120, at most 2 jets w/ pt >30 GeV



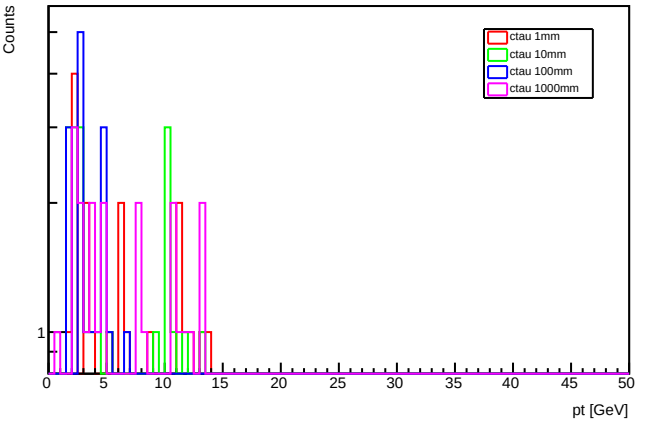
reco leading Jet phi: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



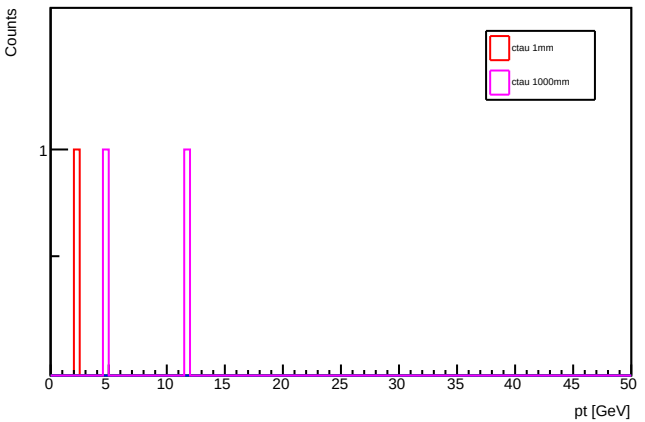
reco leading Mu pt: no cuts



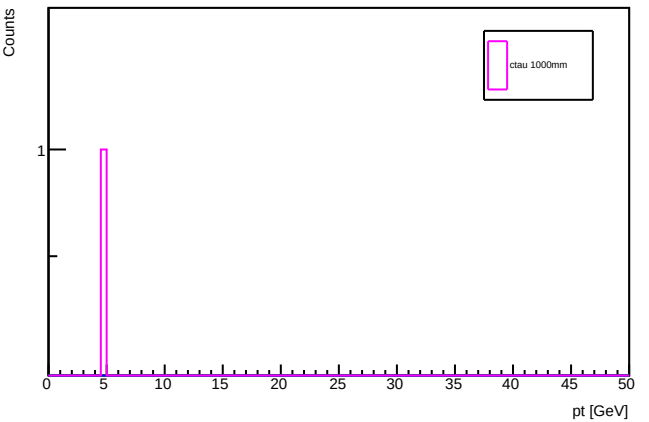
reco leading Mu pt: n_jet >=1, j1pt > 30 GeV



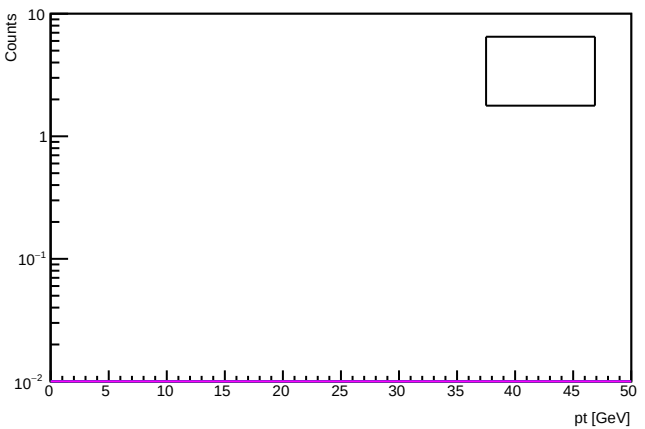
reco leading Mu pt: MET > 120 GeV



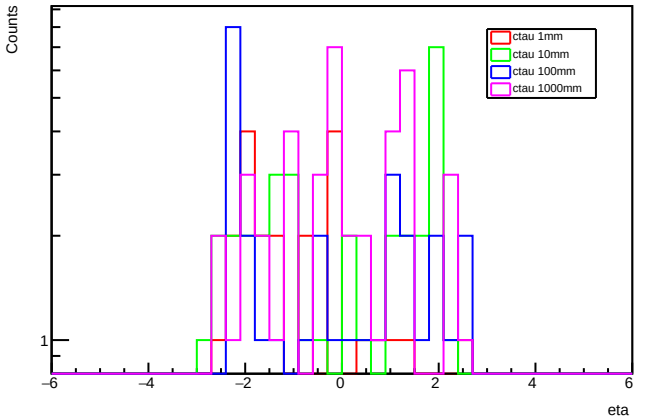
reco leading Mu pt: j1pt >120, at most 2 jets w/ pt >30 GeV



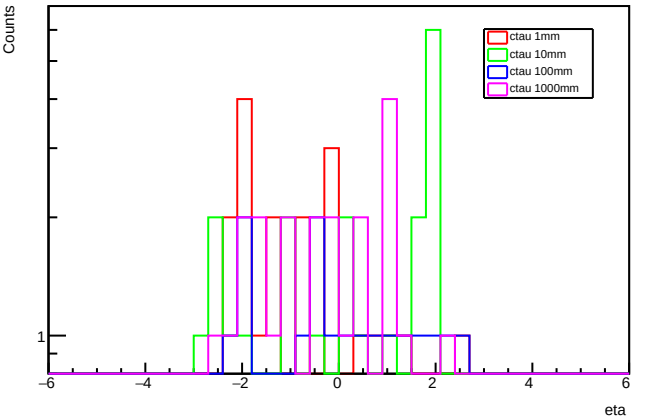
reco leading Mu pt: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



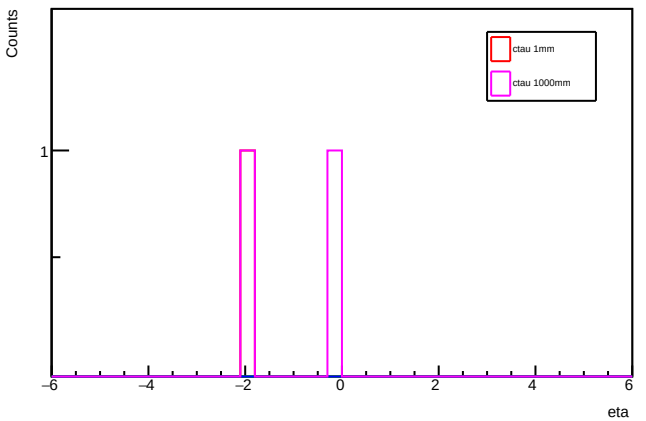
reco leading Mu eta: no cuts



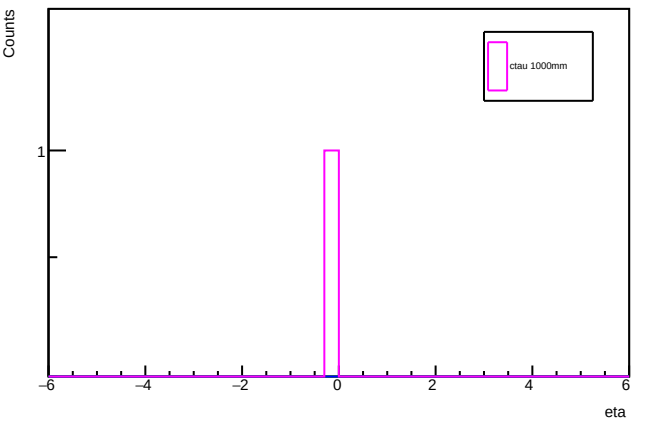
reco leading Mu eta: n_jet >=1, j1pt > 30 GeV



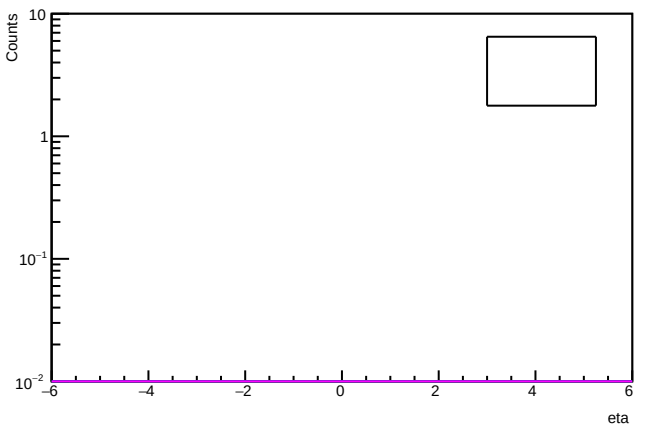
reco leading Mu eta: MET > 120 GeV



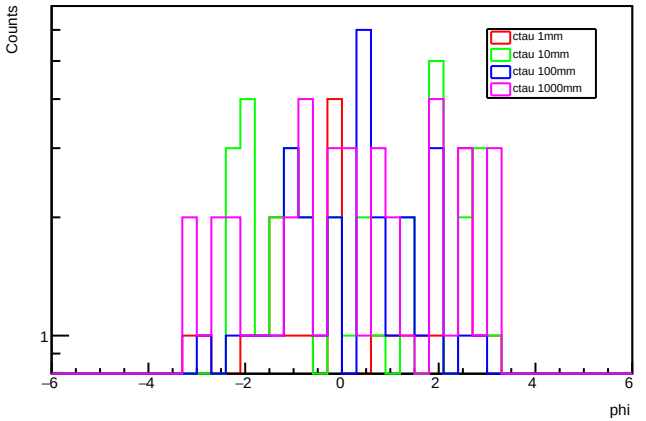
reco leading Mu eta: j1pt >120, at most 2 jets w/ pt >30 GeV



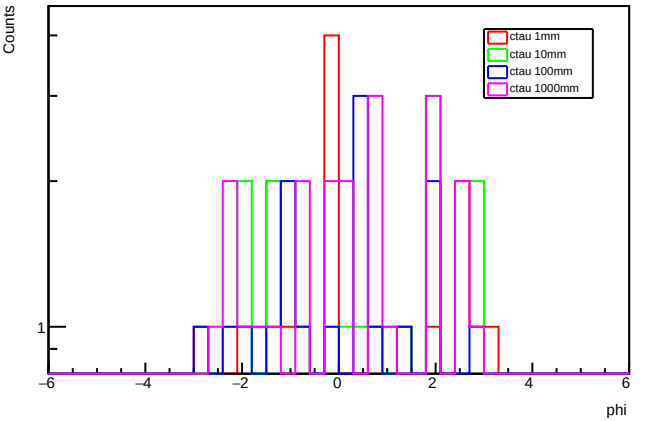
reco leading Mu eta: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



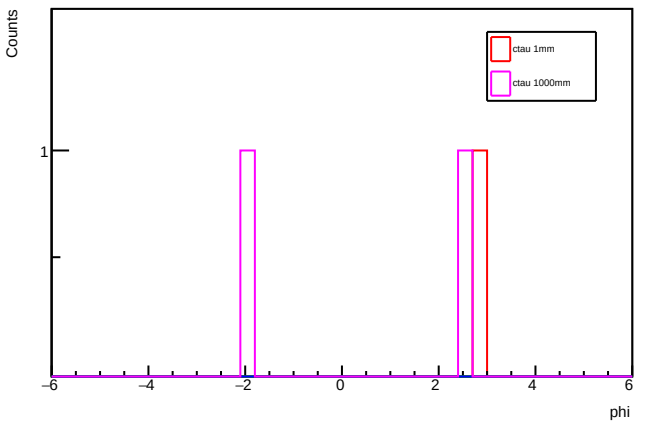
reco leading Mu phi: no cuts



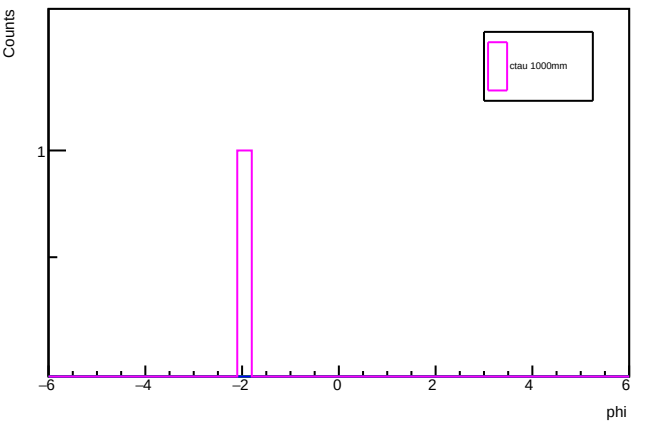
reco leading Mu phi: n_jet >=1, j1pt > 30 GeV



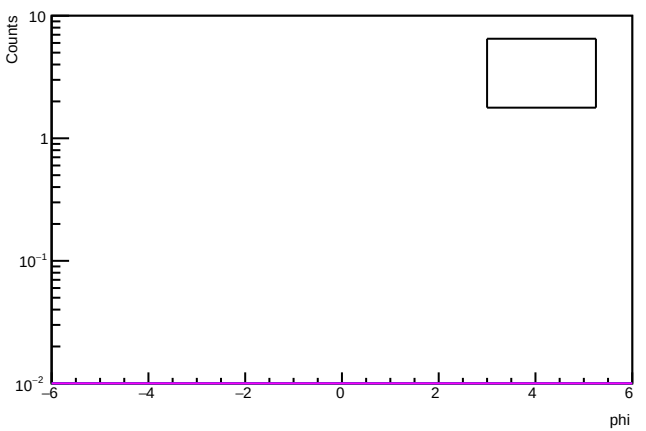
reco leading Mu phi: MET > 120 GeV



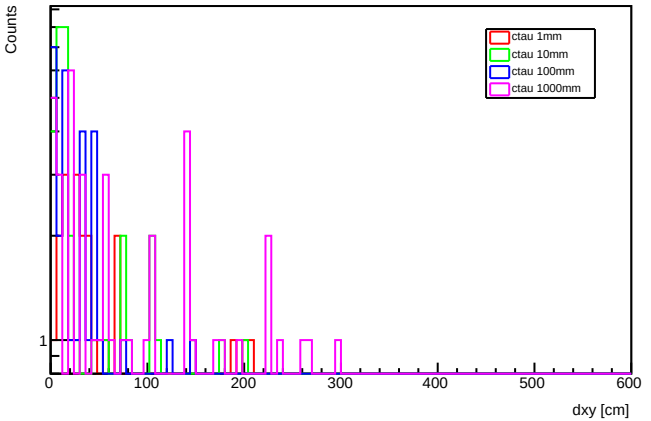
reco leading Mu phi: j1pt >120, at most 2 jets w/ pt >30 GeV



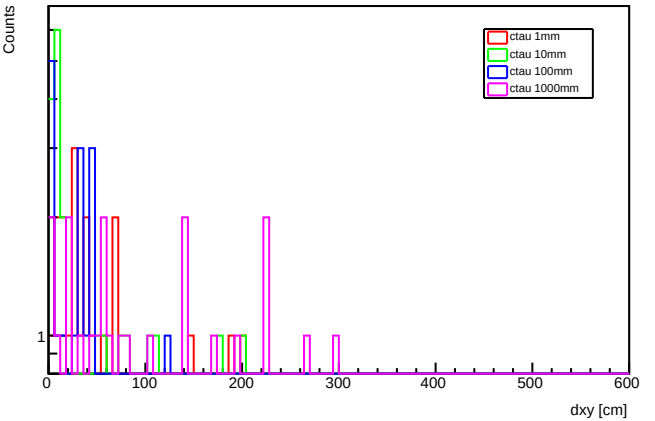
reco leading Mu phi: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



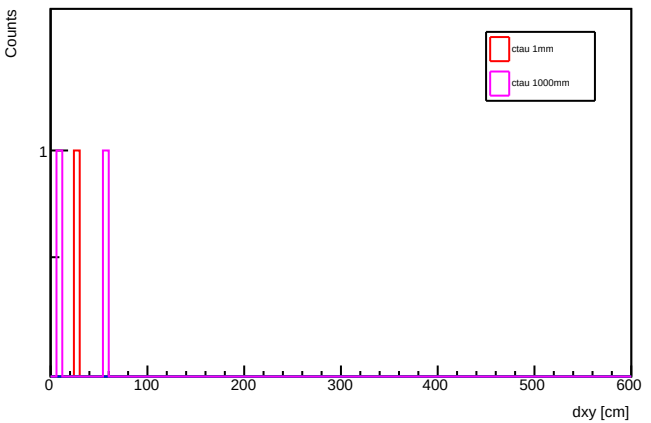
reco leading Mu vxy: no cuts



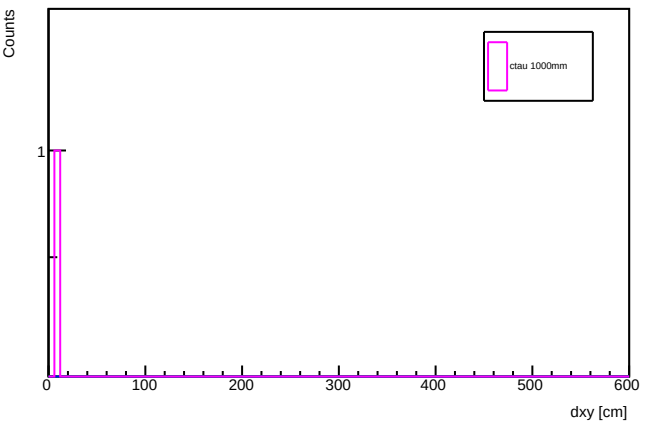
reco leading Mu vxy: n_jet >=1, j1pt > 30 GeV



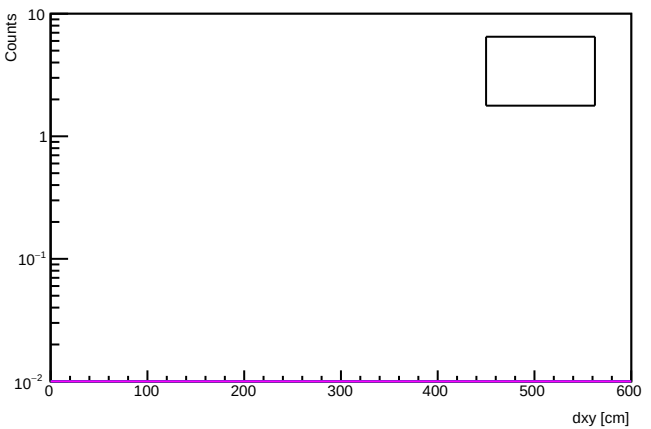
reco leading Mu vxy: MET > 120 GeV



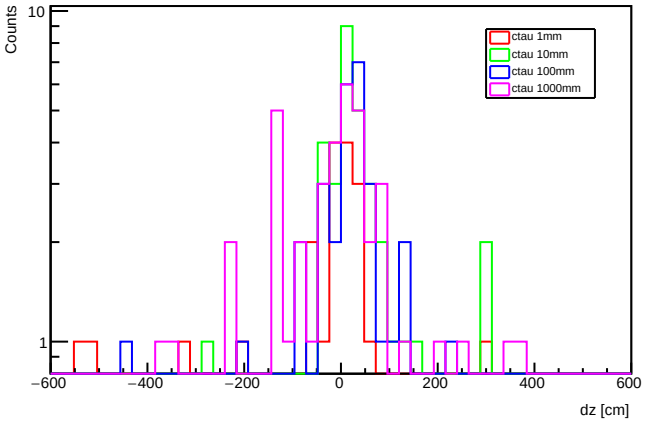
reco leading Mu vxy: j1pt >120, at most 2 jets w/ pt >30 GeV



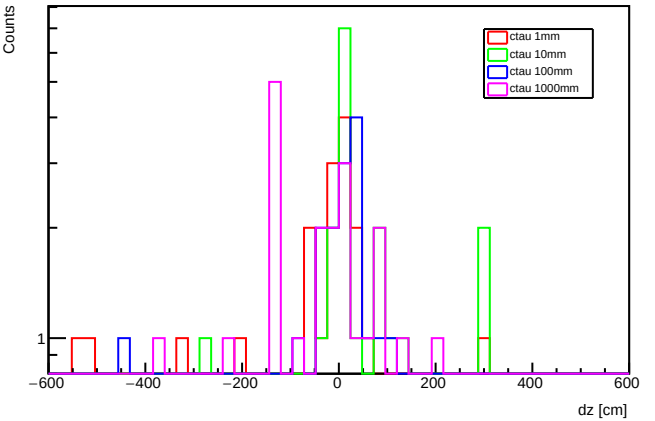
reco leading Mu vxy: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



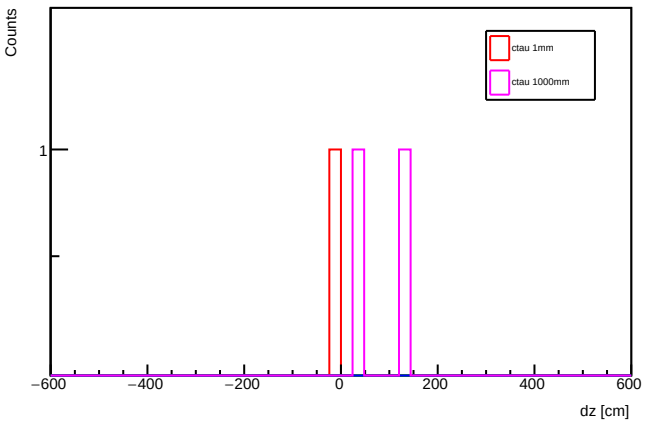
reco leading Mu vz: no cuts



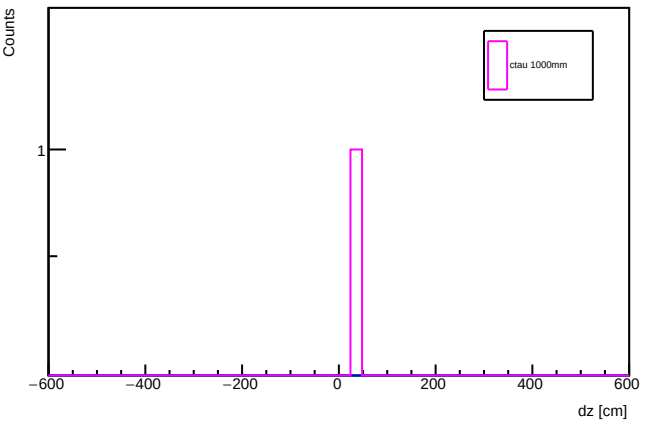
reco leading Mu vz: n_jet >=1, j1pt > 30 GeV



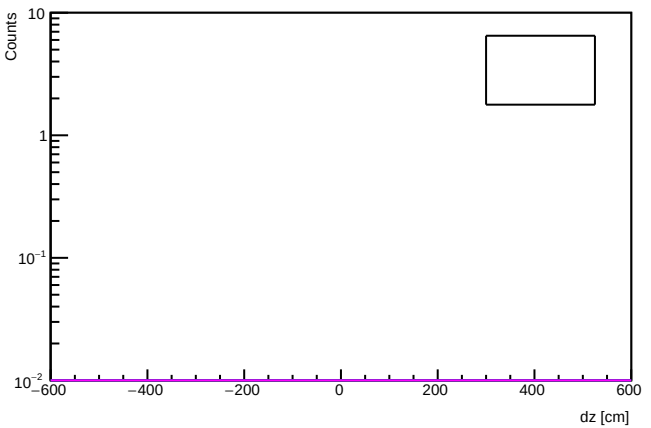
reco leading Mu vz: MET > 120 GeV



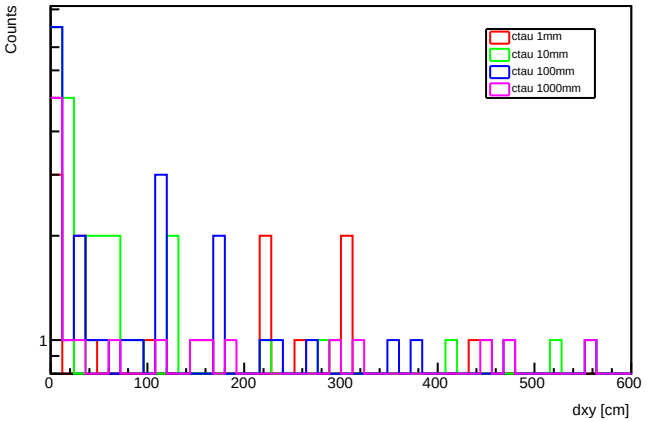
reco leading Mu vz: j1pt >120, at most 2 jets w/ pt >30 GeV



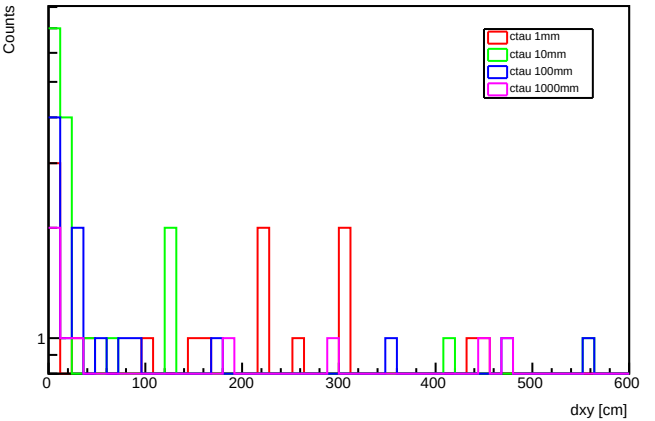
reco leading Mu vz: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



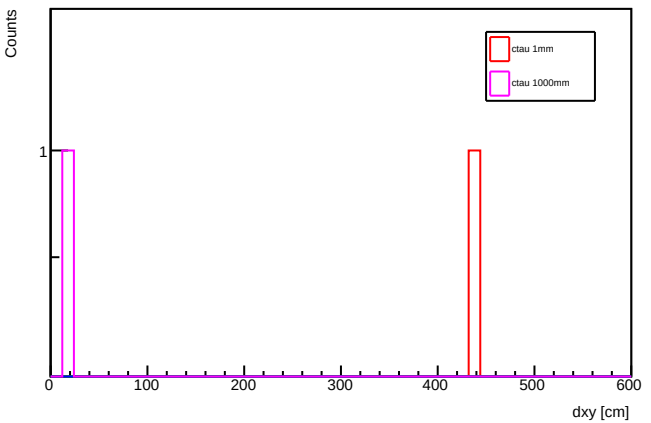
reco all Mu vxy: no cuts



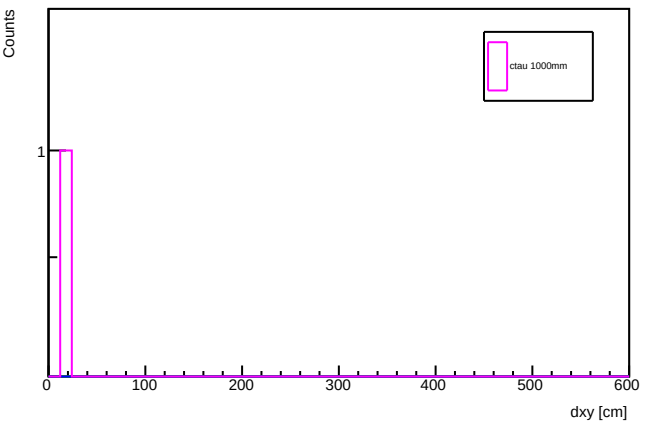
reco all Mu vxy: n_jet >=1, j1pt > 30 GeV



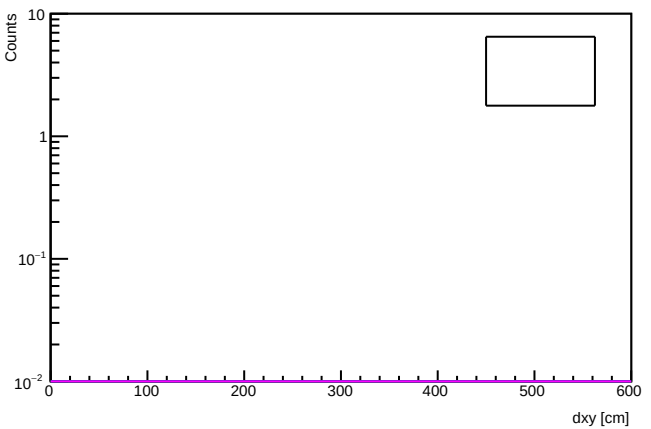
reco all Mu vxy: MET > 120 GeV



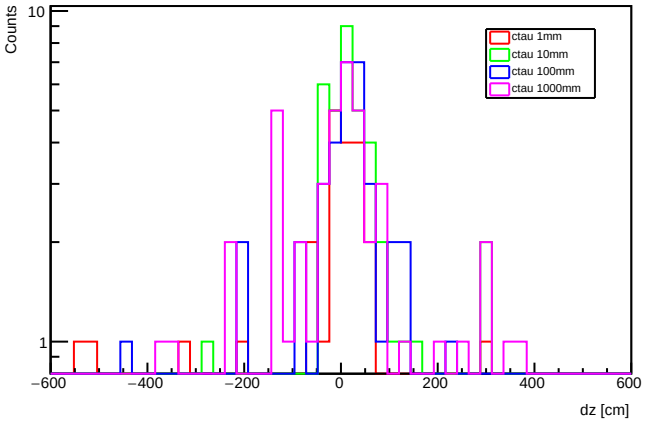
reco all Mu vxy: j1pt >120, at most 2 jets w/ pt >30 GeV



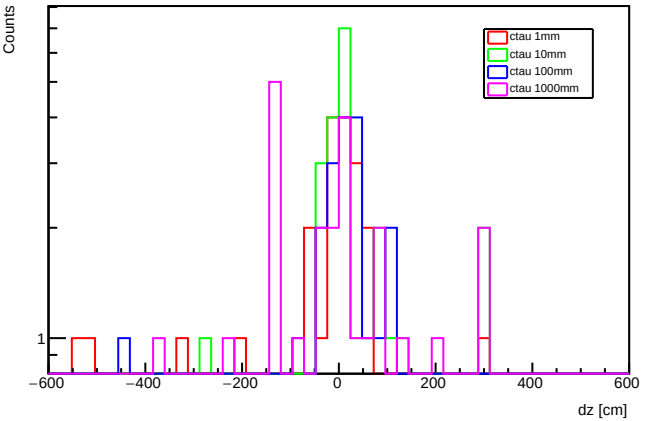
reco all Mu vxy: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



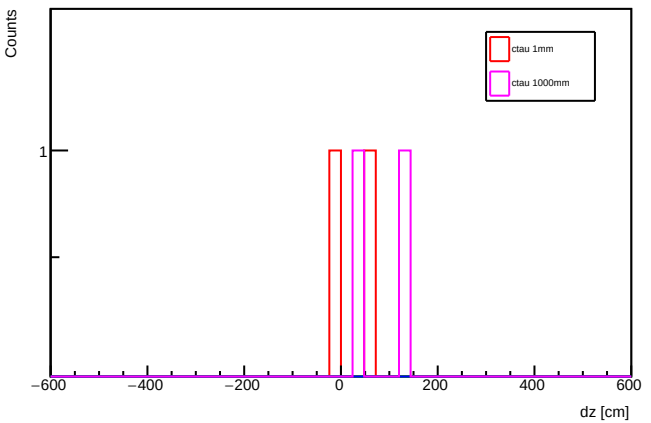
reco all Mu vz: no cuts



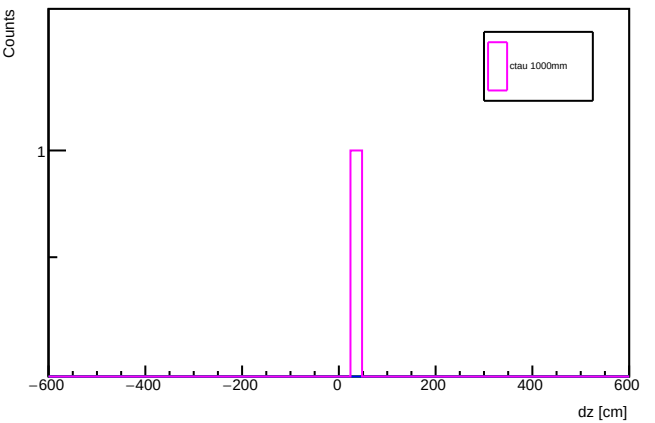
reco all Mu vz: n_jet >=1, j1pt > 30 GeV



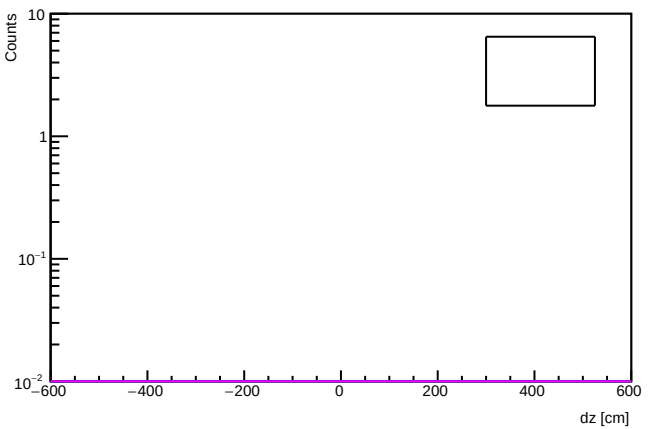
reco all Mu vz: MET > 120 GeV



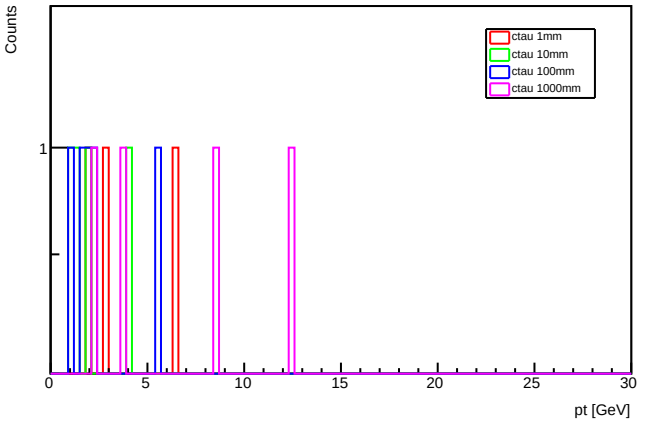
reco all Mu vz: j1pt >120, at most 2 jets w/ pt >30 GeV



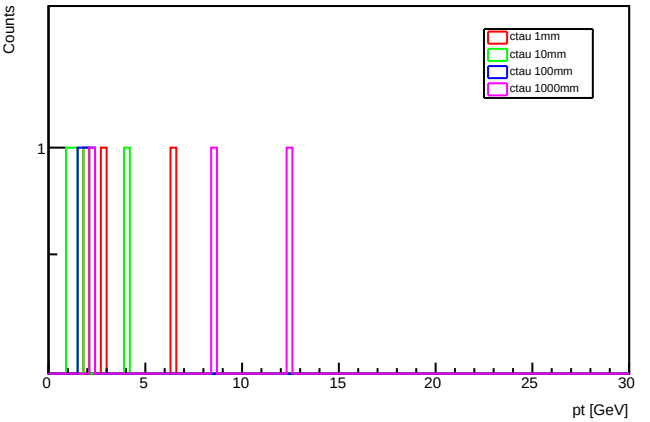
reco all Mu vz: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



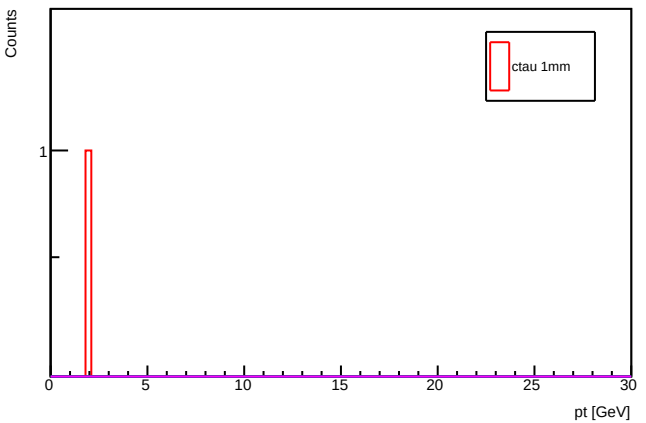
reco subleading Mu pt: no cuts



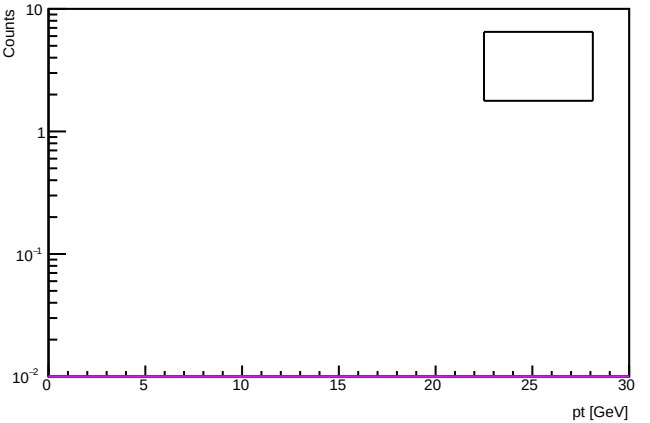
reco subleading Mu pt: n_jet >=1, j1pt > 30 GeV



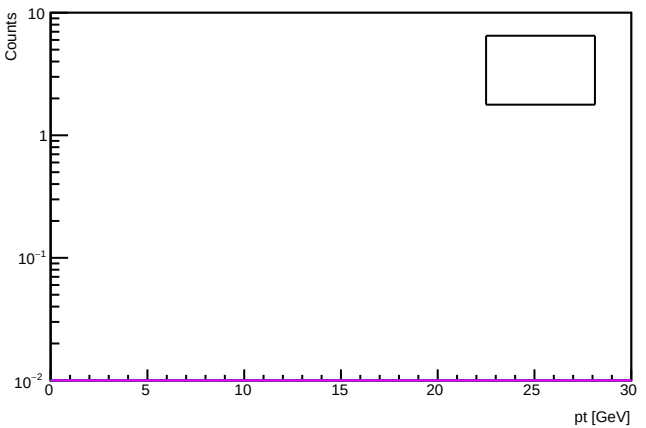
5 Gev (10%) leading vs subleading Mu pt: MET > 120 GeV



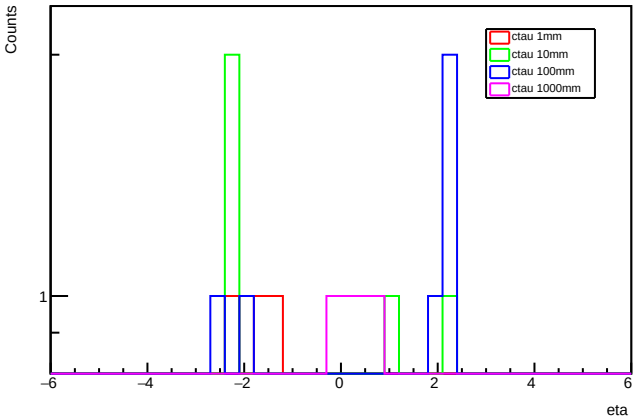
5 Gev (10%) leading vs subleading Mu pt: j1pt >120, at most 2 jets w/ pt >30 GeV



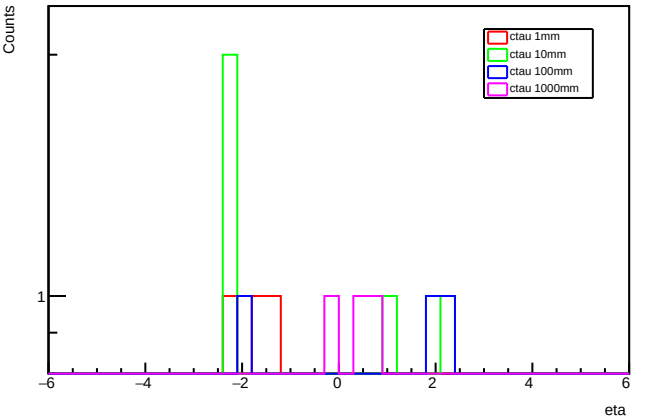
5 Gev (10%) leading vs subleading Mu pt: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



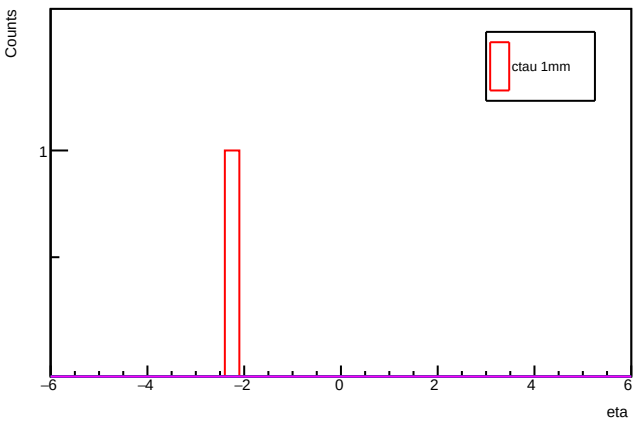
reco subleading Mu eta: no cuts



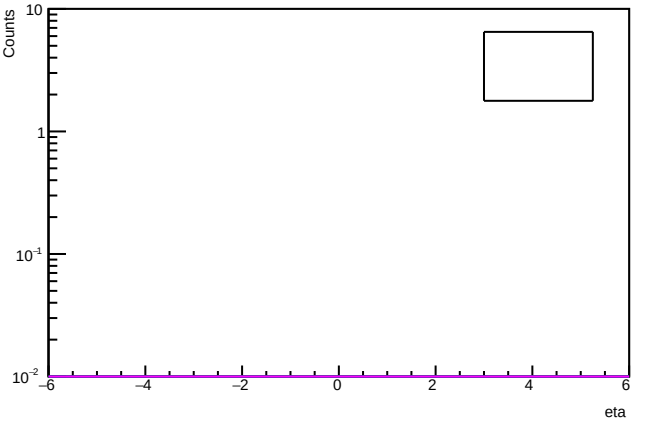
reco subleading Mu eta: n_jet >=1, j1pt > 30 GeV



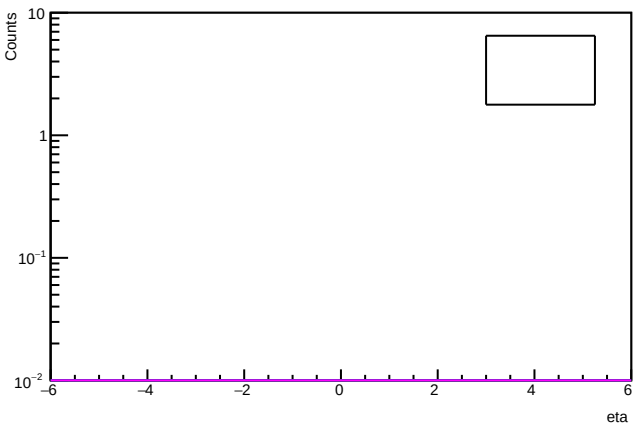
reco subleading Mu eta: MET > 120 GeV



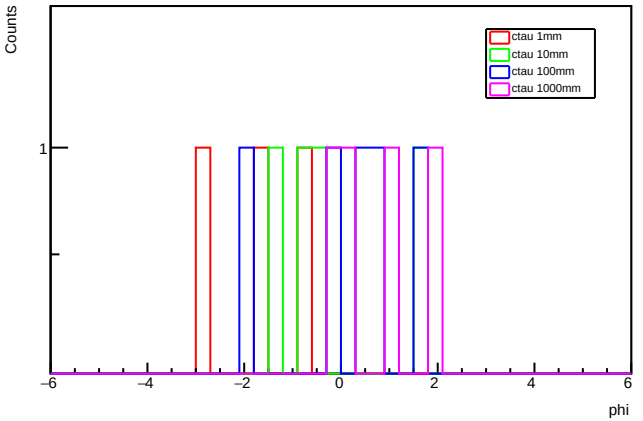
reco subleading Mu eta: j1pt >120, at most 2 jets w/ pt >30 GeV



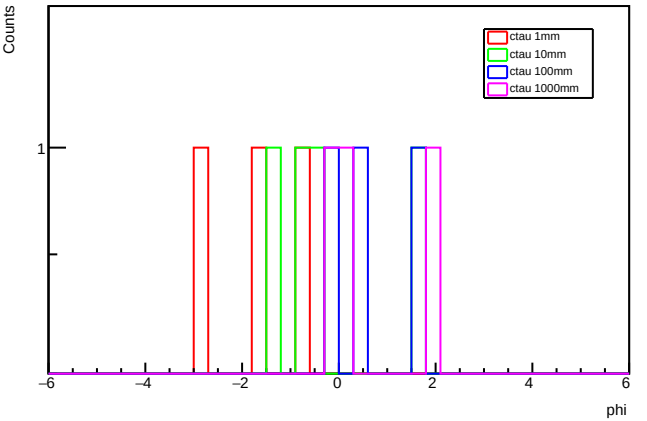
reco subleading Mu eta: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



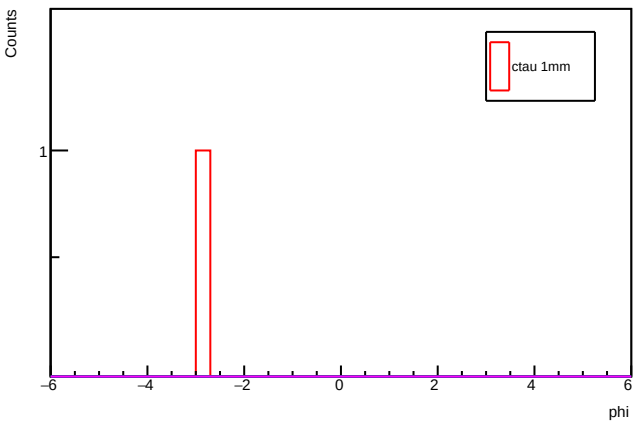
reco subleading Mu phi: no cuts



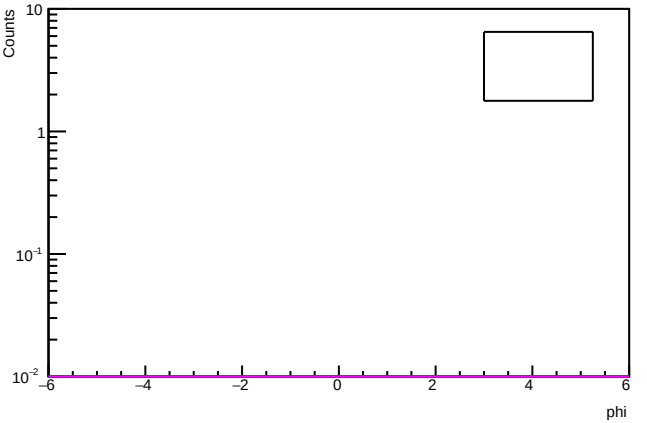
reco subleading Mu phi: n_jet >=1, j1pt > 30 GeV



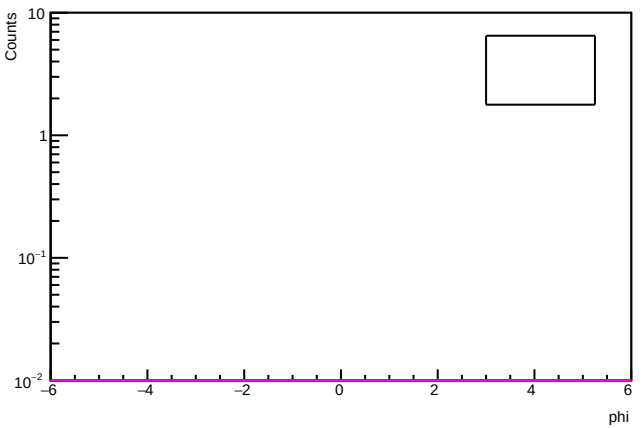
reco subleading Mu phi: MET > 120 GeV



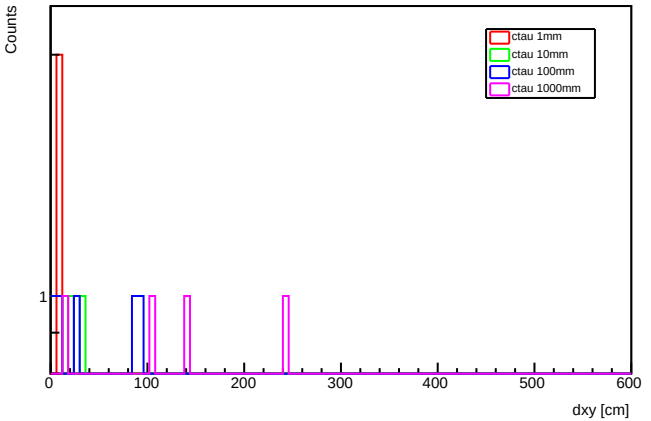
reco subleading Mu phi: j1pt >120, at most 2 jets w/ pt >30 GeV



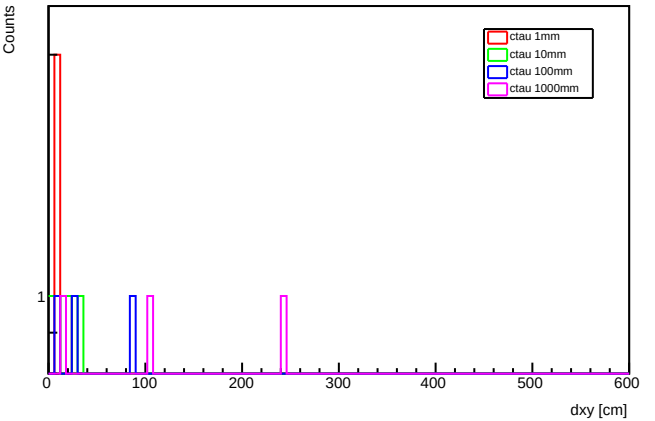
reco subleading Mu phi: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



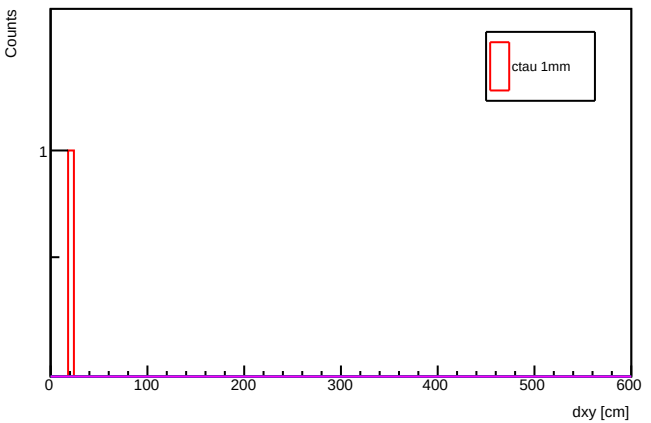
reco subleading Mu vxy: no cuts



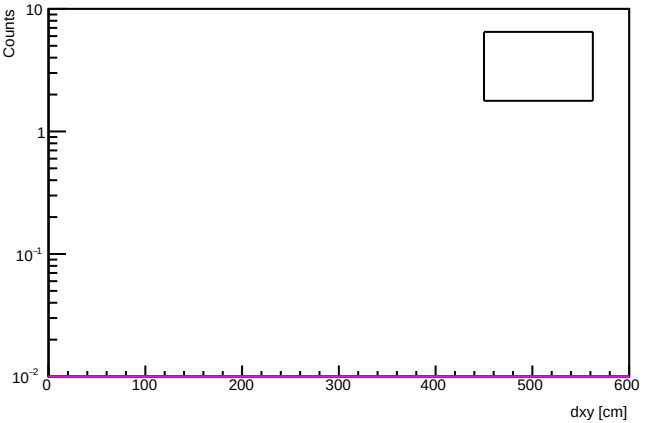
reco subleading Mu vxy: n_jet >=1, j1pt > 30 GeV



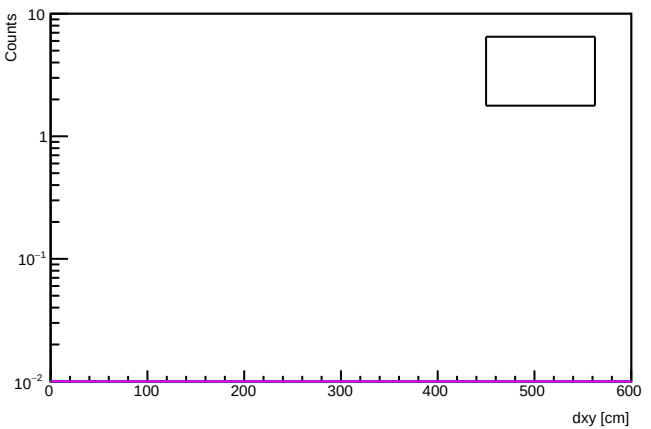
reco subleading Mu vxy: MET > 120 GeV



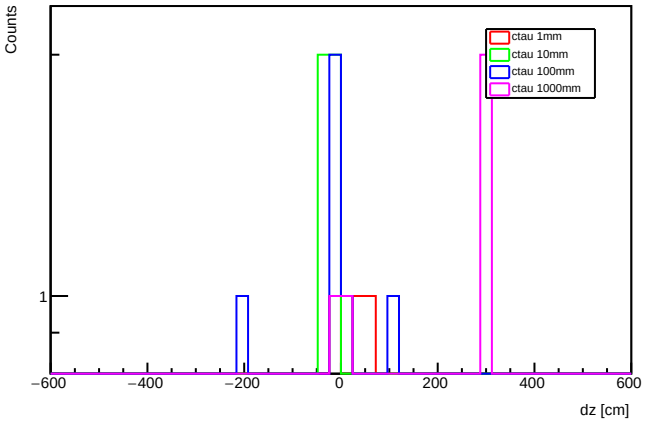
reco subleading Mu vxy: j1pt >120, at most 2 jets w/ pt >30 GeV



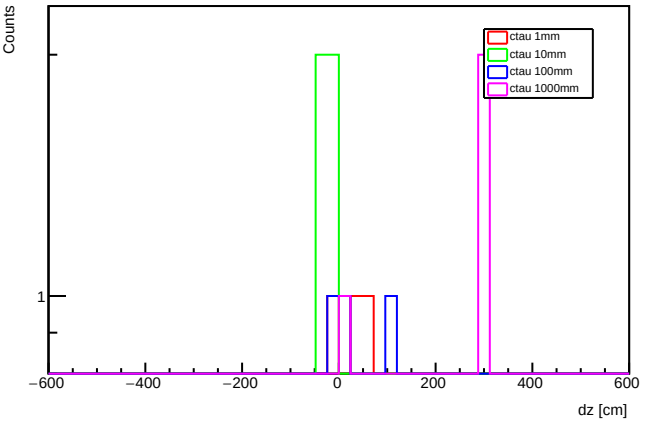
reco subleading Mu vxy: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



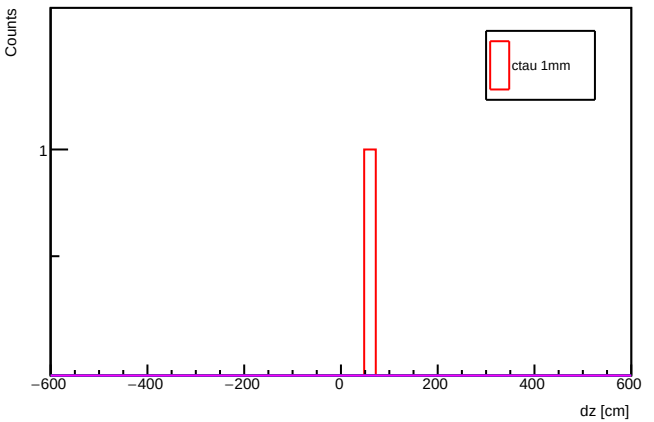
reco subleading Mu vz: no cuts



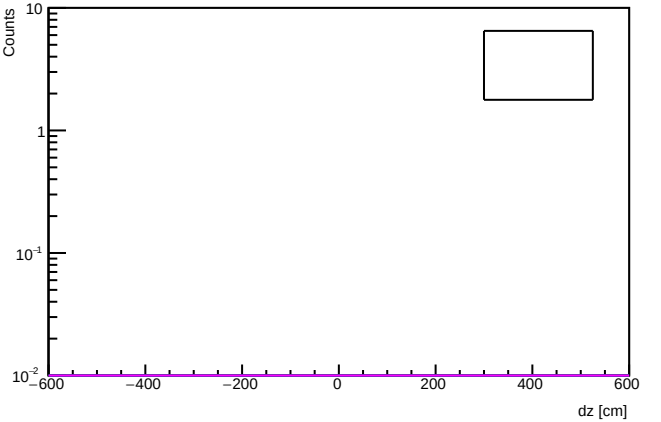
reco subleading Mu vz: n_jet >=1, j1pt > 30 GeV



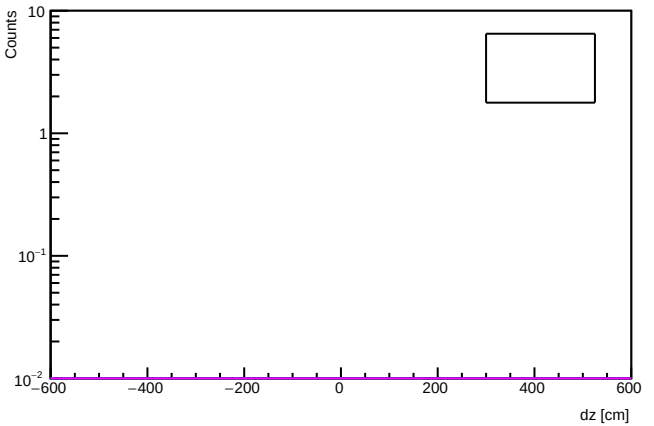
reco subleading Mu vz: MET > 120 GeV



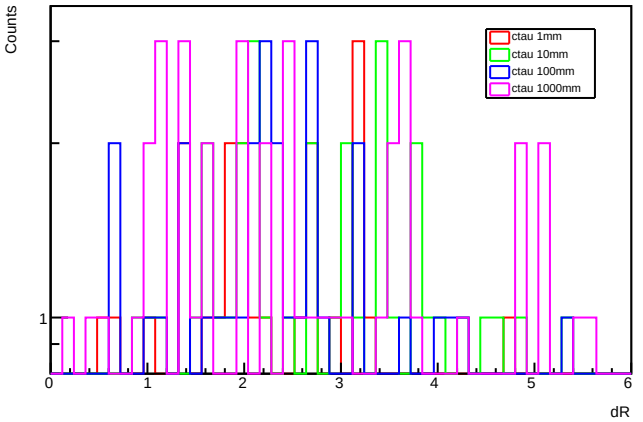
reco subleading Mu vz: j1pt >120, at most 2 jets w/ pt >30 GeV



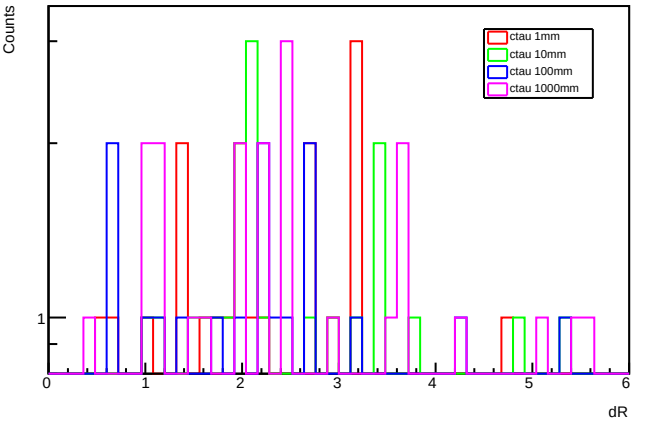
reco subleading Mu vz: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



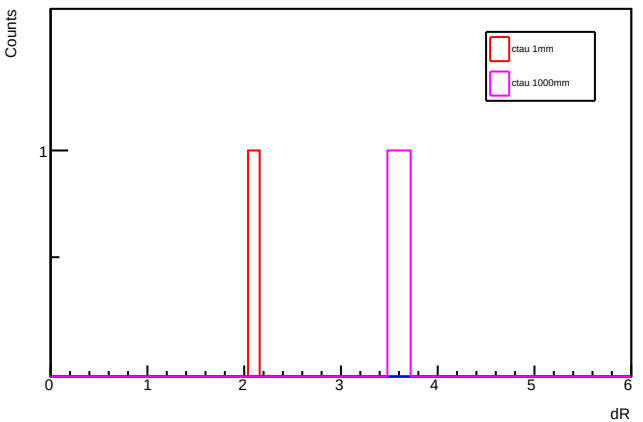
dR: reco leading mu and subleading mu: no cuts



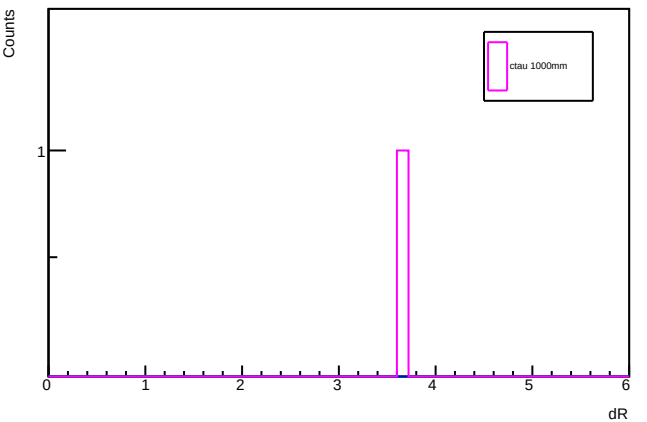
dR: reco leading mu and subleading mu: n_jet >=1, j1pt > 30 GeV



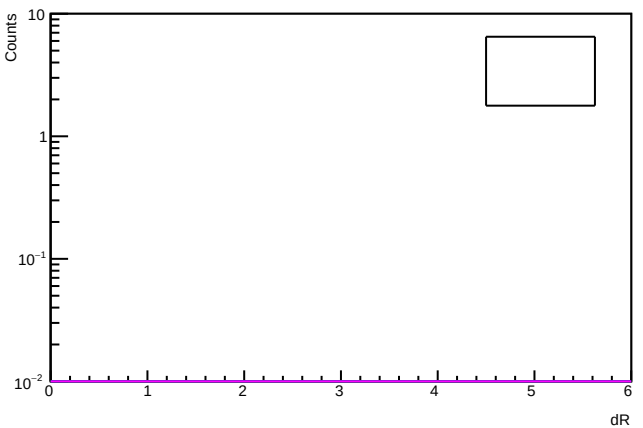
dR: reco leading mu and subleading mu: MET > 120 GeV



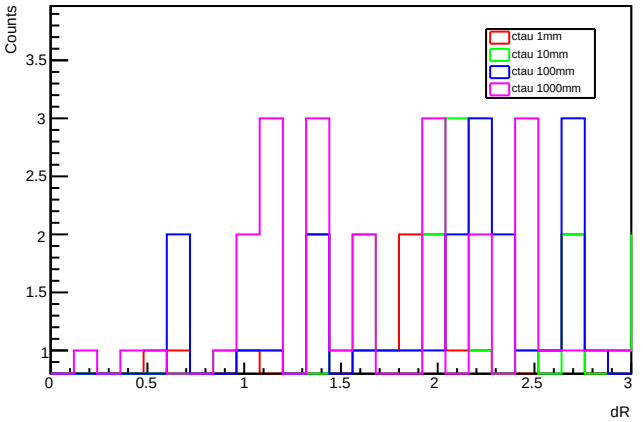
dR: reco leading mu and subleading mu: j1pt >120, at most 2 jets w/ pt >30 GeV



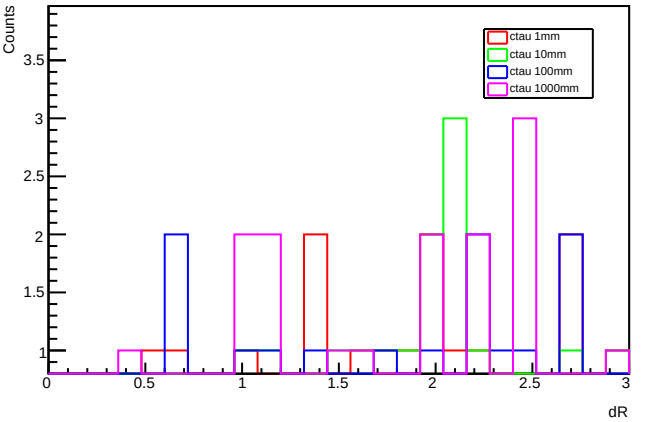
dR: reco leading mu and subleading mu: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



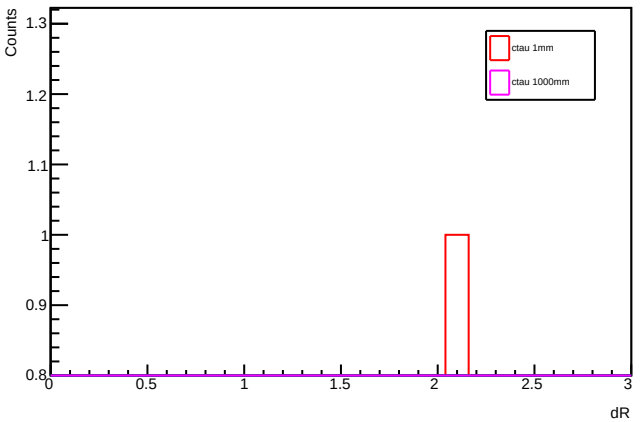
dR: reco leading mu and subleading mu: no cuts



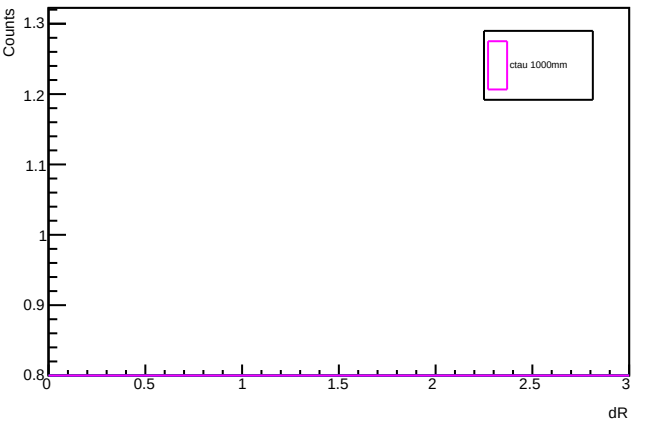
dR: reco leading mu and subleading mu: n_jet >=1, j1pt > 30 GeV



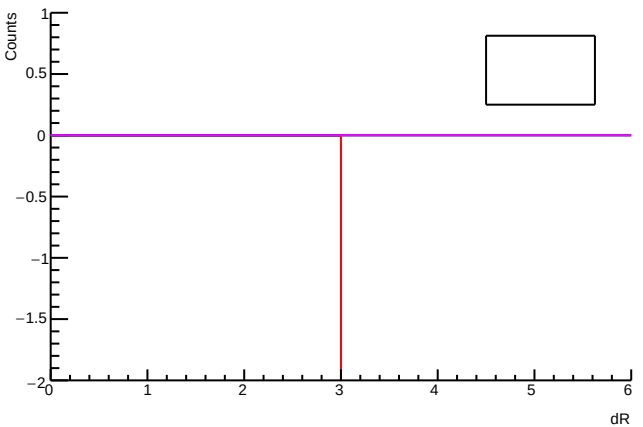
dR: reco leading mu and subleading mu: MET > 120 GeV



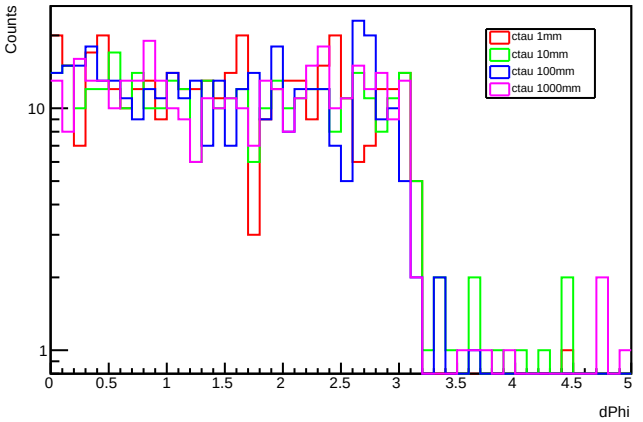
dR: reco leading mu and subleading mu: j1pt >120, at most 2 jets w/ pt >30 GeV



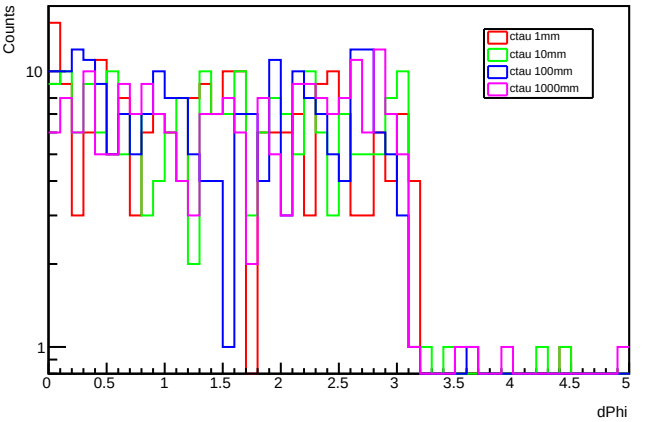
dR: reco leading mu and subleading mu: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



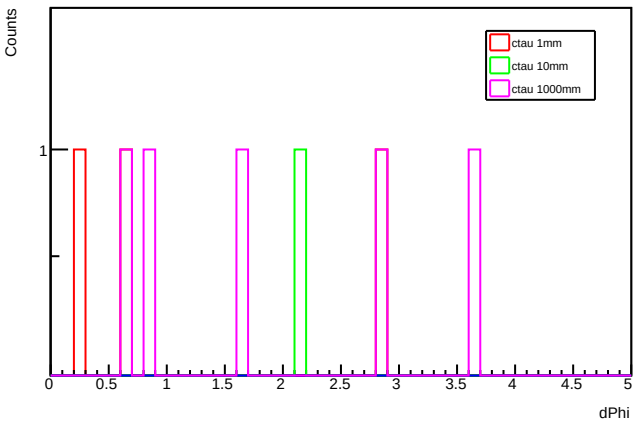
dPhi: reco MET and leading mu: no cuts



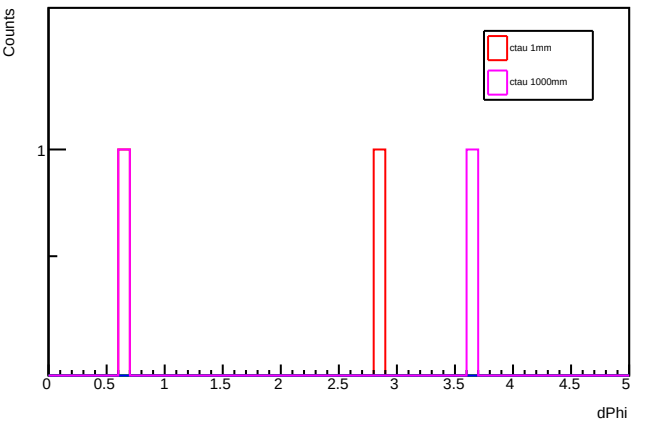
dPhi: reco MET and leading mu: n_jet >=1, j1pt > 30 GeV



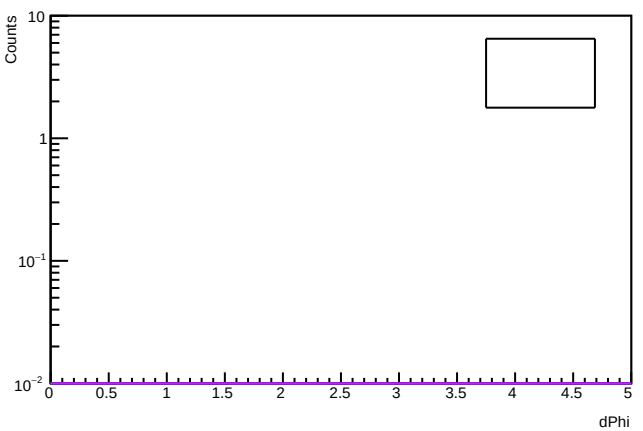
dPhi: reco MET and leading mu: MET > 120 GeV



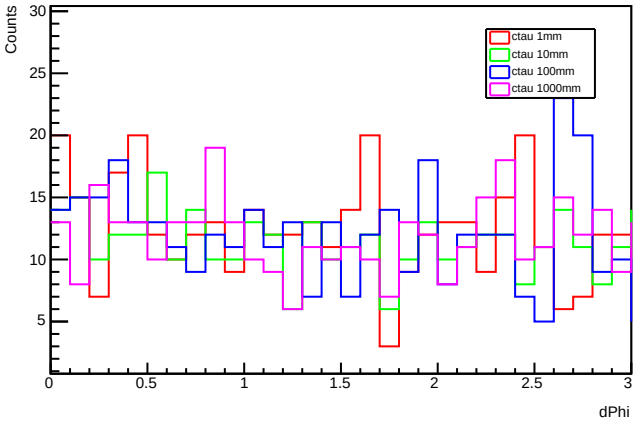
dPhi: reco MET and leading mu: j1pt >120, at most 2 jets w/ pt >30 GeV



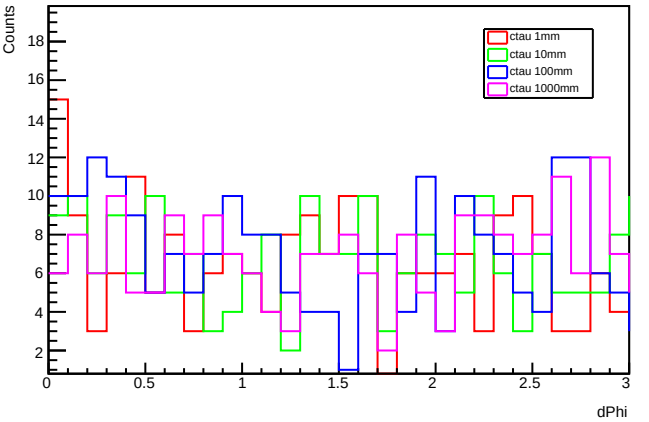
dPhi: reco MET and leading mu: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



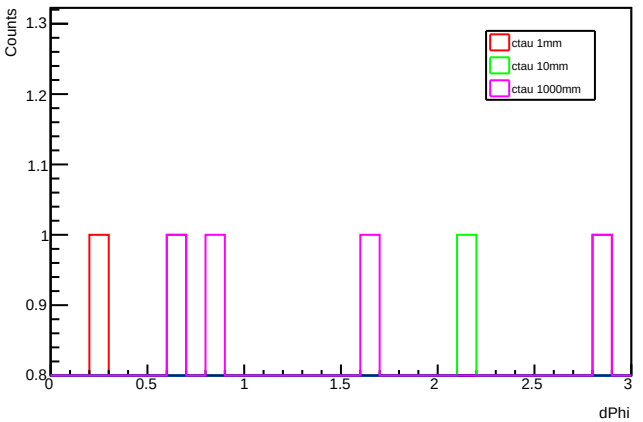
dPhi: reco MET and leading mu: no cuts



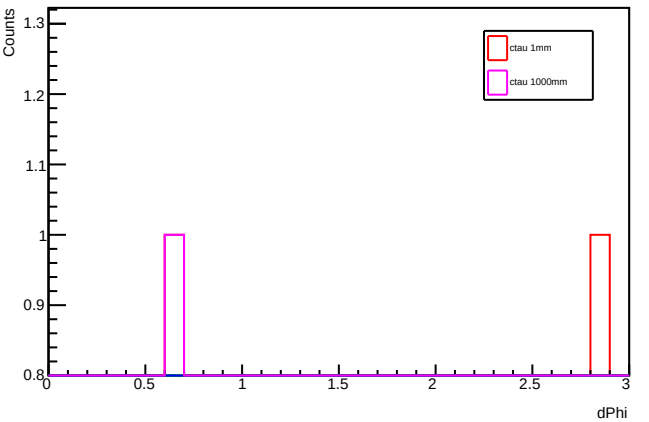
dPhi: reco MET and leading mu: n_jet >=1, j1pt > 30 GeV



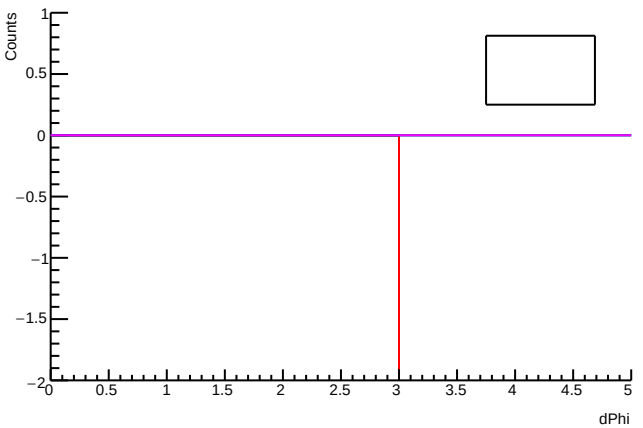
dPhi: reco MET and leading mu: MET > 120 GeV



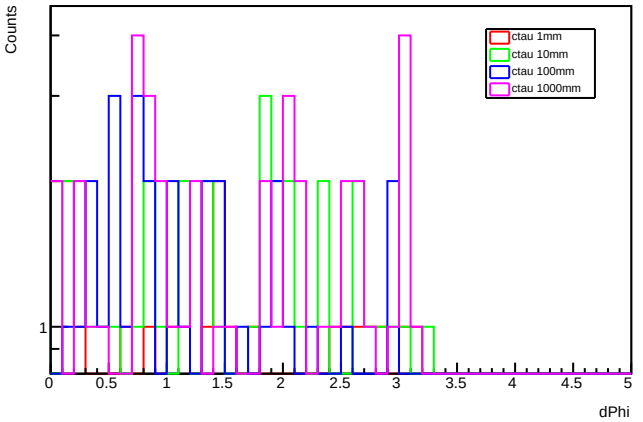
dPhi: reco MET and leading mu: j1pt >120, at most 2 jets w/ pt >30 GeV



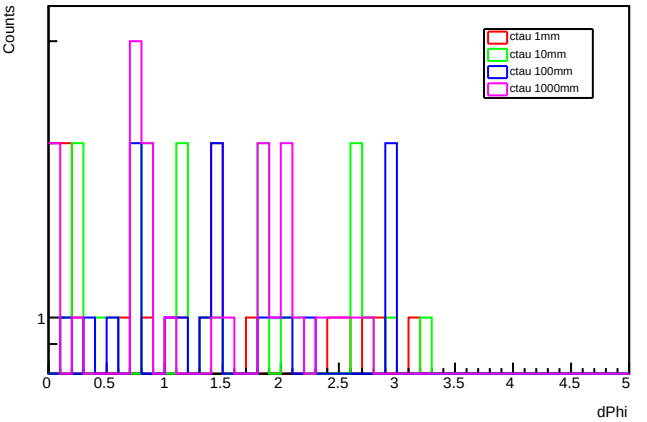
dPhi: reco MET and leading mu: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



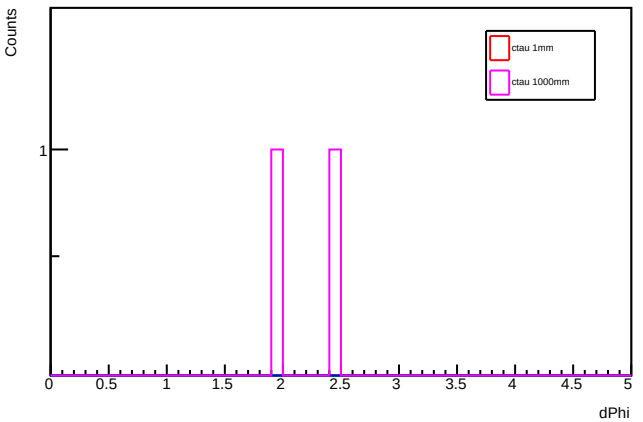
dPhi: reco leading mu and subleading mu: no cuts



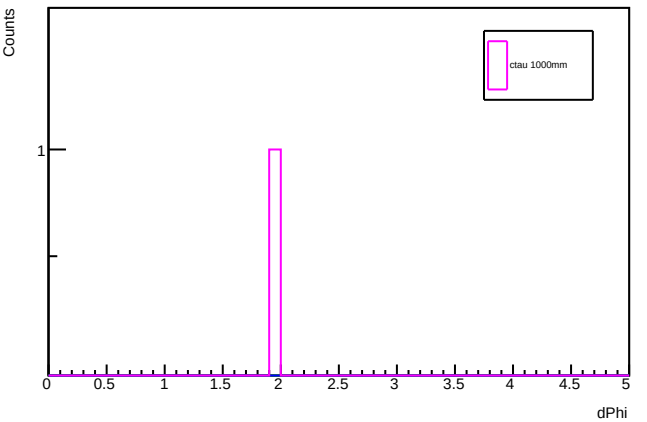
dPhi: reco leading mu and subleading mu: n_jet >=1, j1pt > 30 GeV



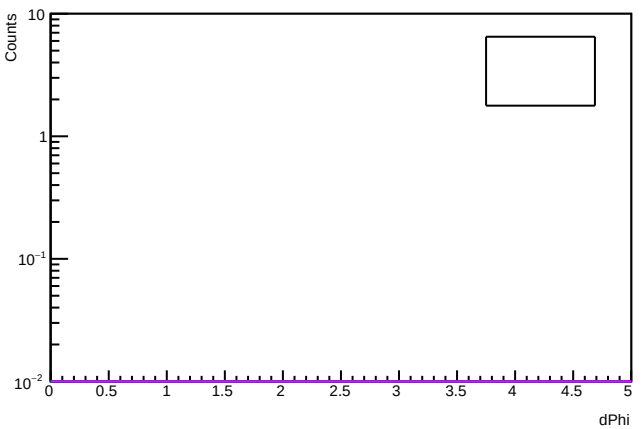
dPhi: reco leading mu and subleading mu: MET > 120 GeV



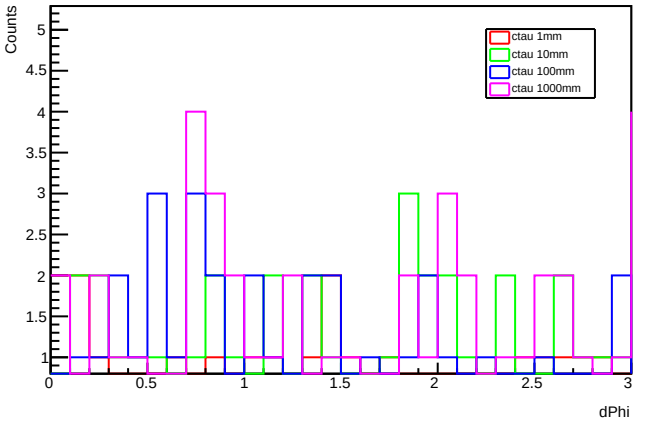
dPhi: reco leading mu and subleading mu: j1pt >120, at most 2 jets w/ pt >30 GeV



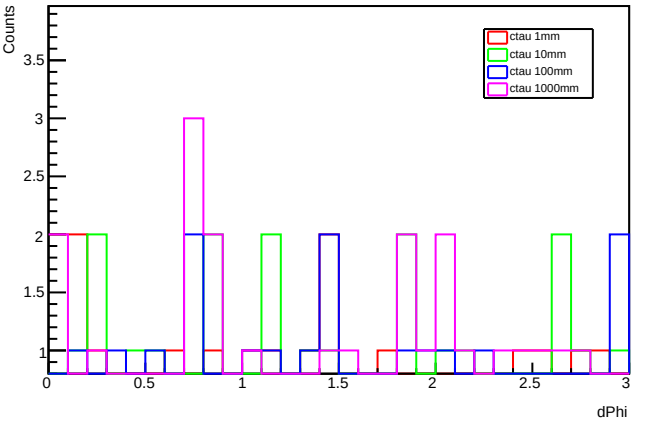
dPhi: reco leading mu and subleading mu: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



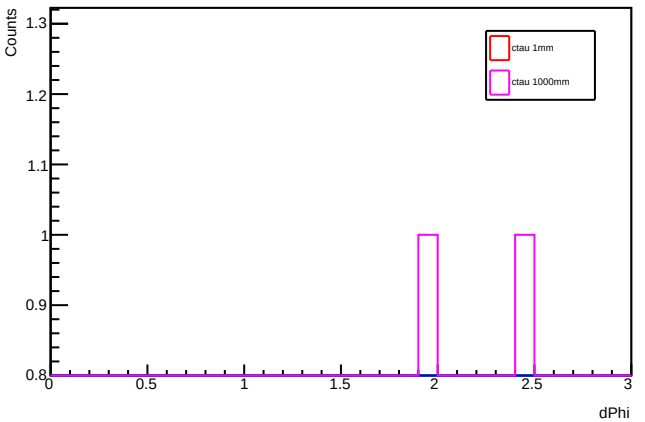
dPhi: reco leading mu and subleading mu: no cuts



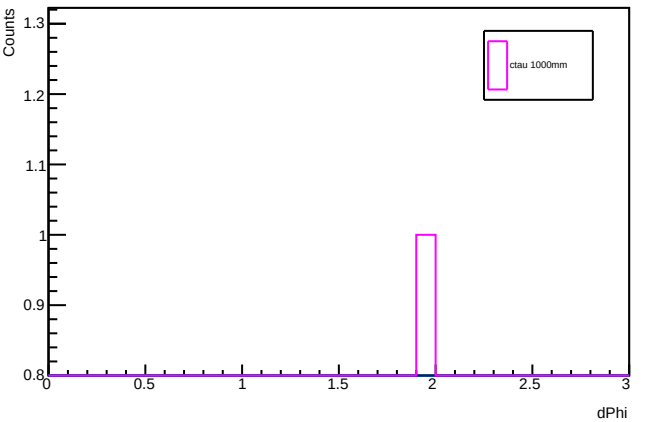
dPhi: reco leading mu and subleading mu: n_jet >=1, j1pt > 30 GeV



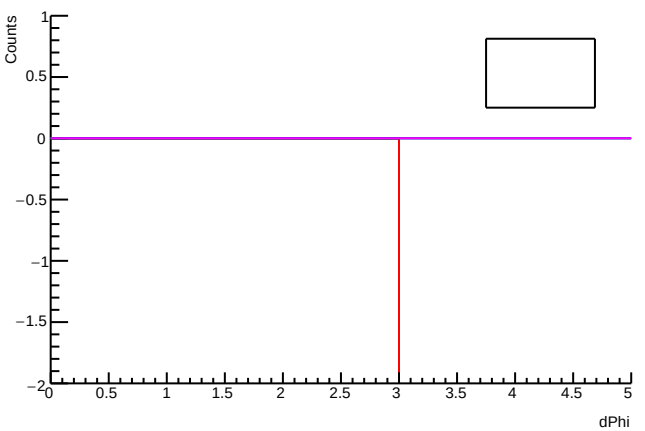
dPhi: reco leading mu and subleading mu: MET > 120 GeV



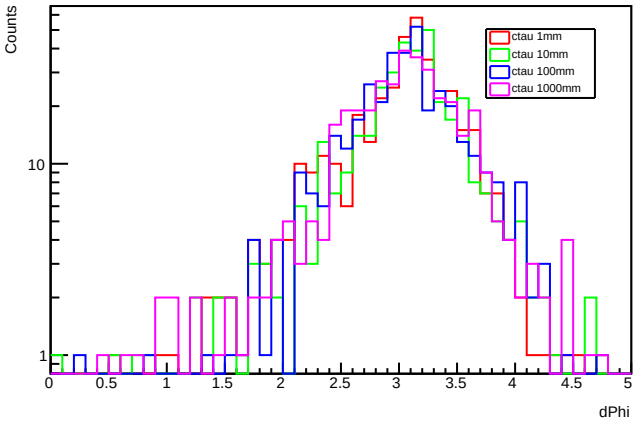
dPhi: reco leading mu and subleading mu: j1pt >120, at most 2 jets w/ pt >30 GeV



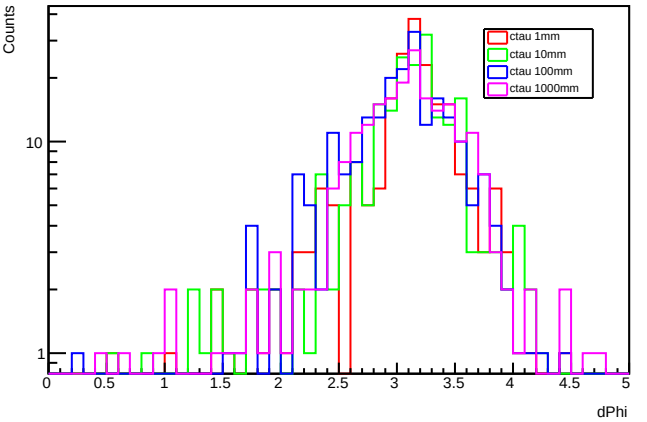
dPhi: reco leading mu and subleading mu: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



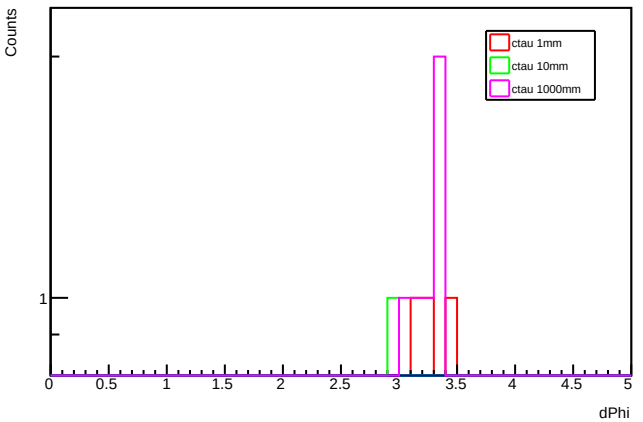
dPhi: reco MET and leading jet: no cuts



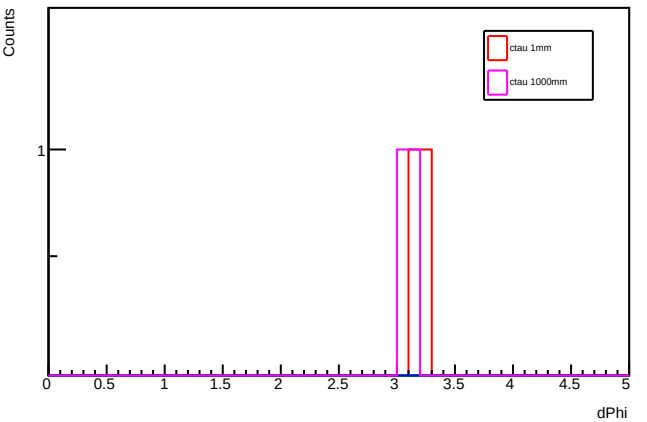
dPhi: reco MET and leading jet: n_jet >=1, j1pt > 30 GeV



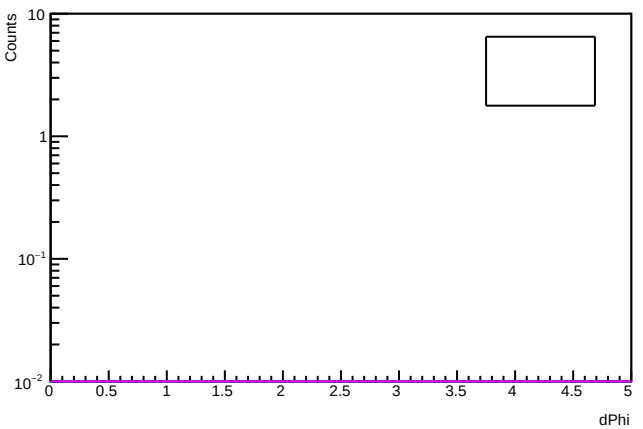
dPhi: reco MET and leading jet: MET > 120 GeV



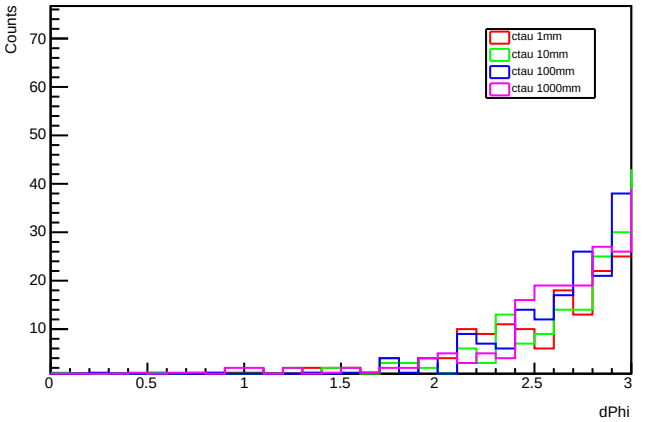
dPhi: reco MET and leading jet: j1pt >120, at most 2 jets w/ pt >30 GeV



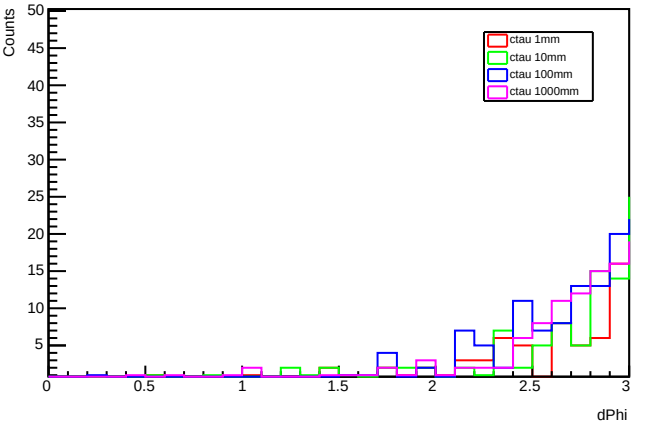
dPhi: reco MET and leading jet: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



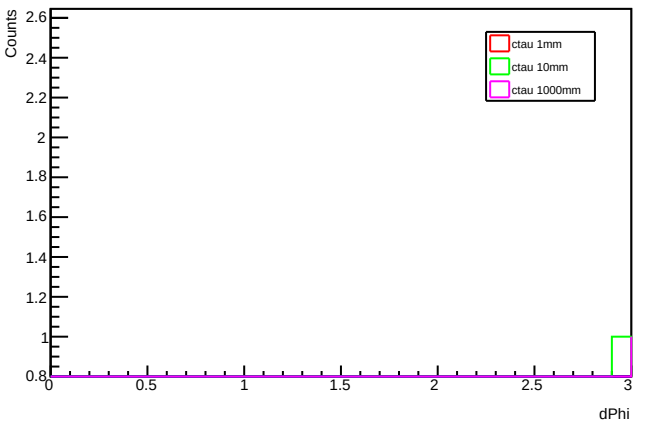
dPhi: reco MET and leading jet: no cuts



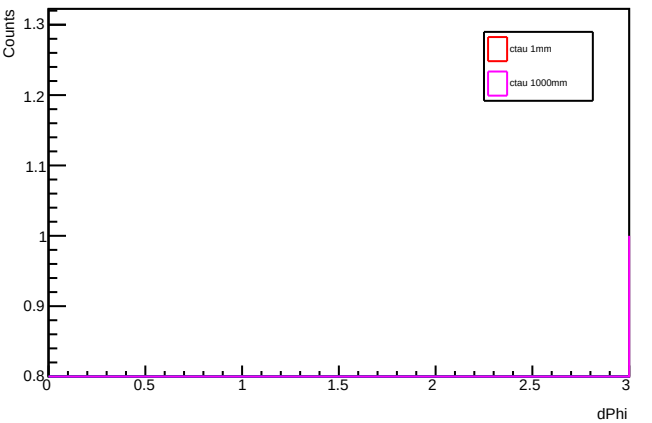
dPhi: reco MET and leading jet: n_jet >=1, j1pt > 30 GeV



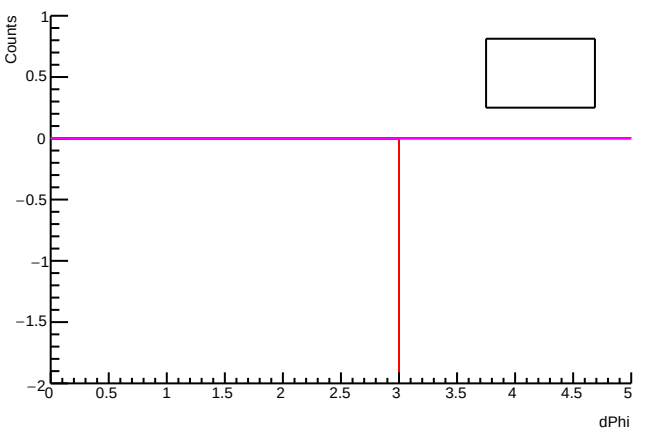
dPhi: reco MET and leading jet: MET > 120 GeV



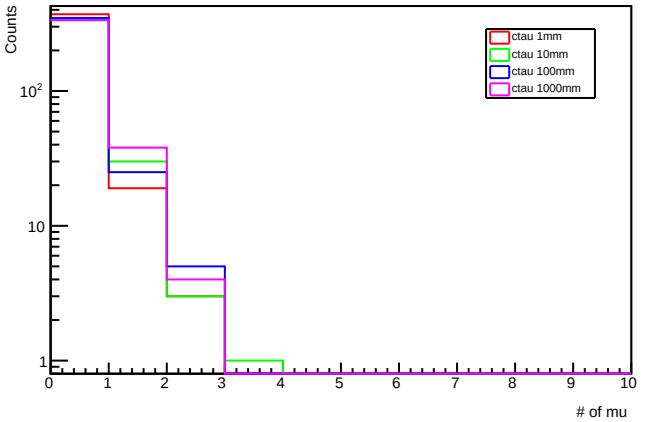
dPhi: reco MET and leading jet: j1pt >120, at most 2 jets w/ pt >30 GeV



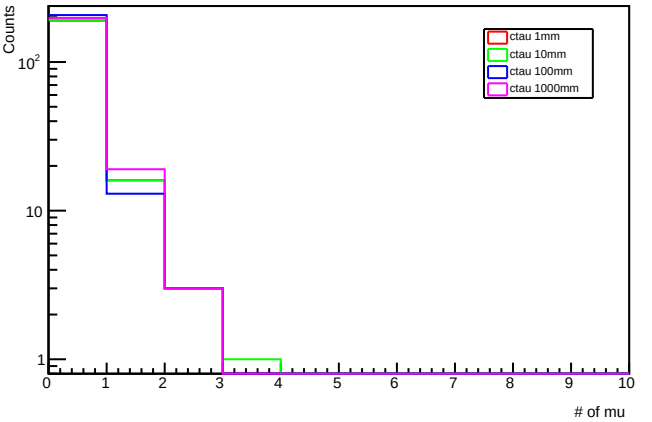
dPhi: reco MET and leading jet: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



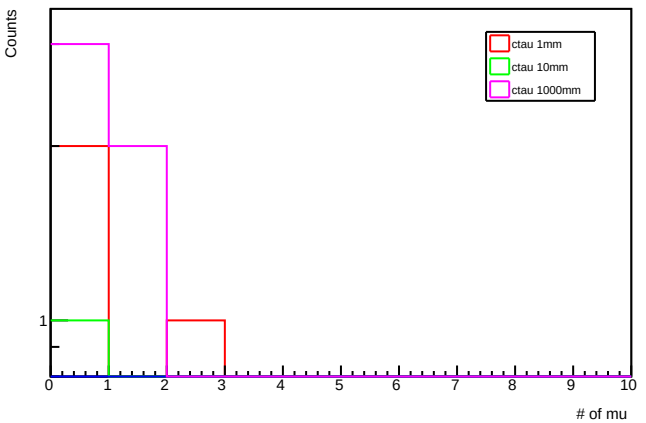
reco number of mu: no cuts



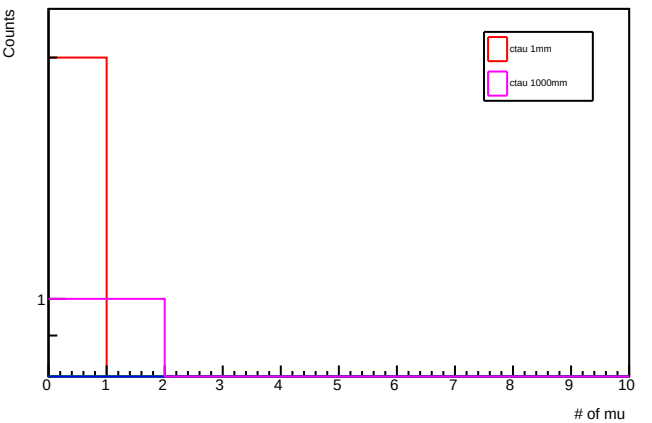
reco number of mu: n_jet >=1, j1pt > 30 GeV



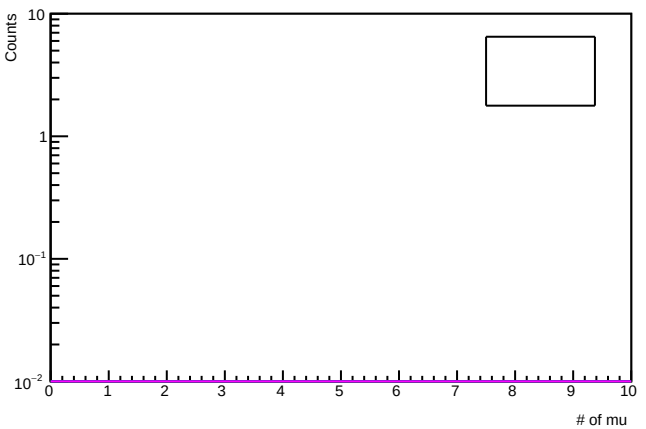
reco number of mu: MET > 120 GeV



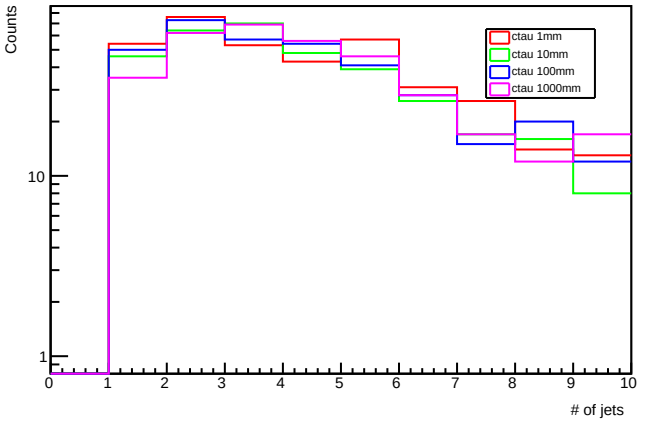
reco number of mu: j1pt >120, at most 2 jets w/ pt >30 GeV



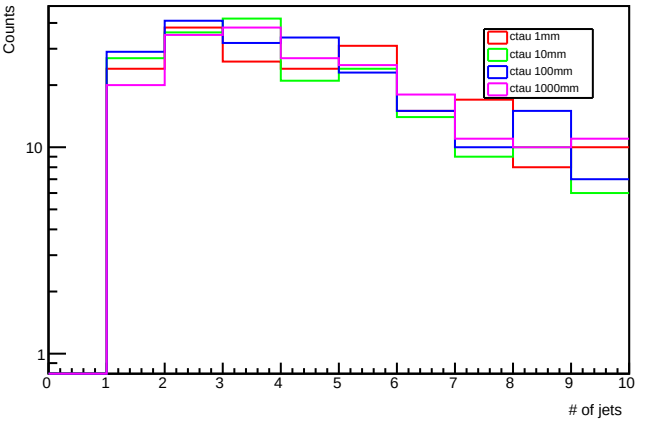
reco number of mu: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



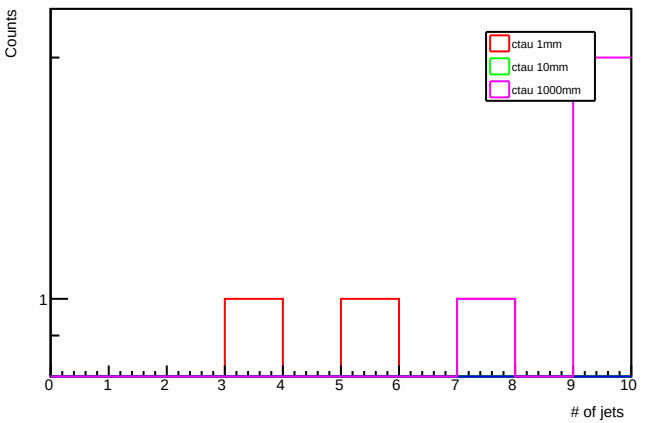
reco number of jets: no cuts



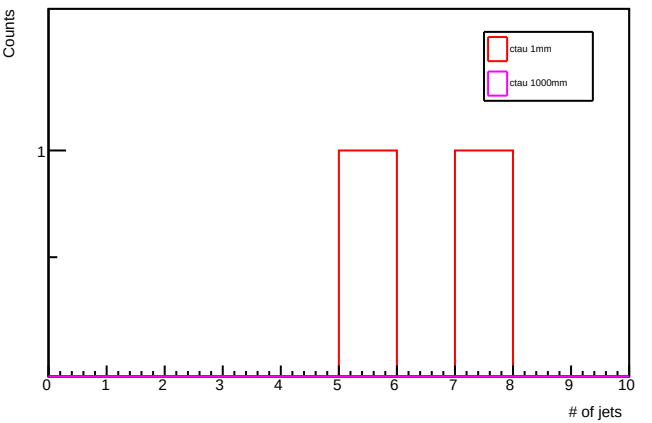
reco number of jets: n_jet >=1, j1pt > 30 GeV



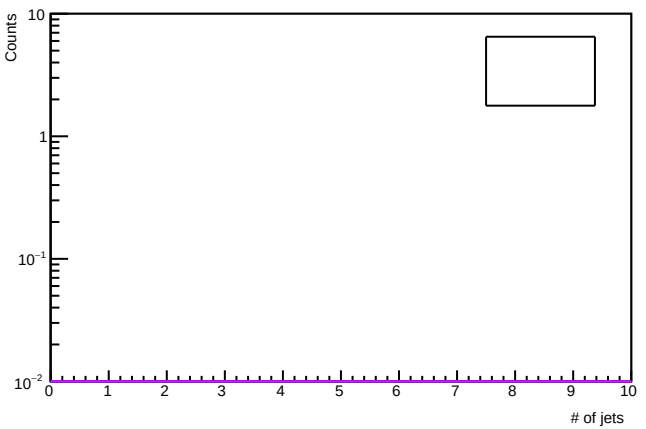
reco number of jets: MET > 120 GeV

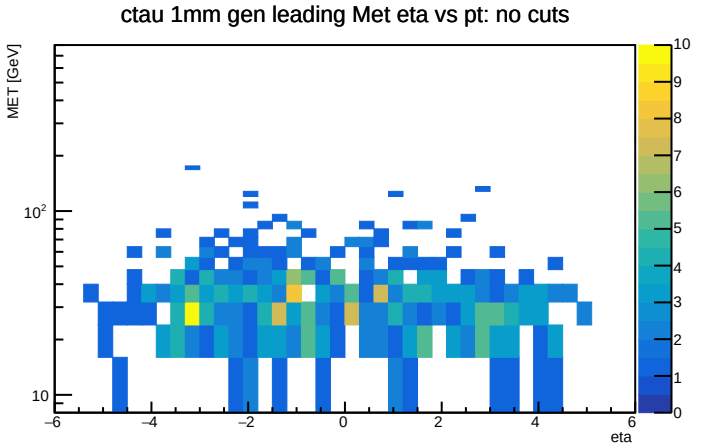


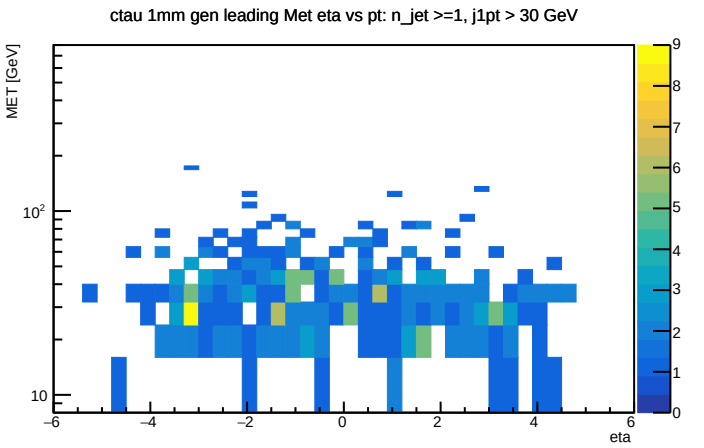
reco number of jets: j1pt >120, at most 2 jets w/ pt >30 GeV

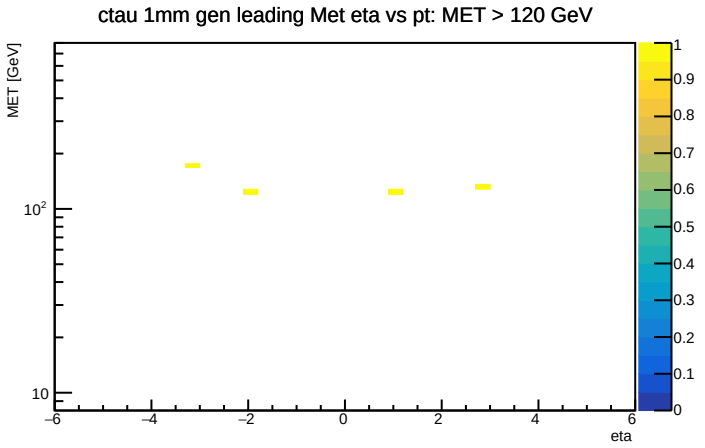


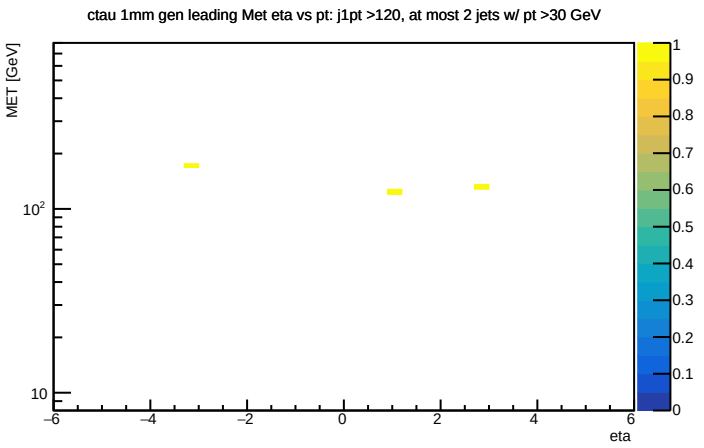
reco number of jets: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4

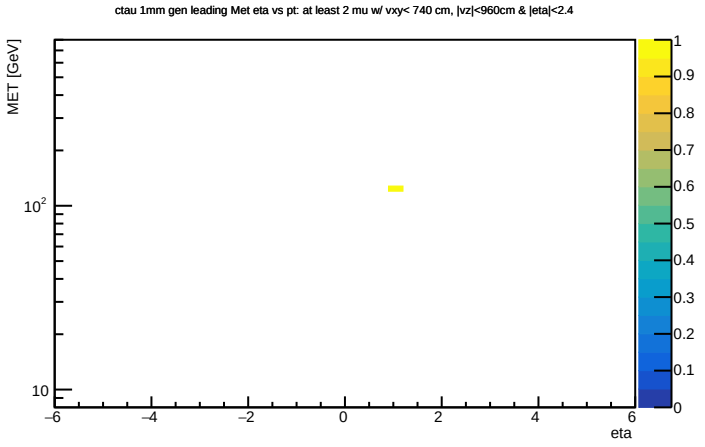


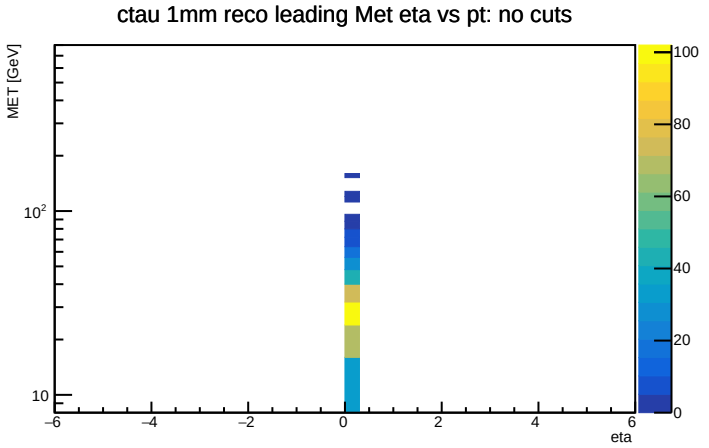

ctau 1mm gen leading Met eta vs pt: no cuts
MET [GeV]
eta

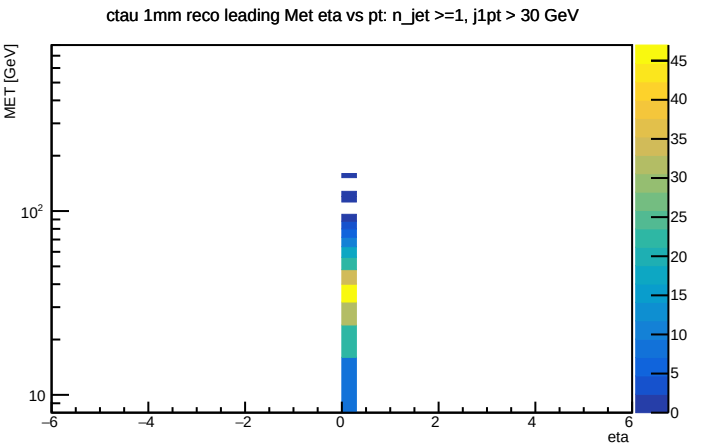

ctau 1mm gen leading Met eta vs pt: n_jet >=1, j1pt > 30 GeV
MET [GeV]
eta

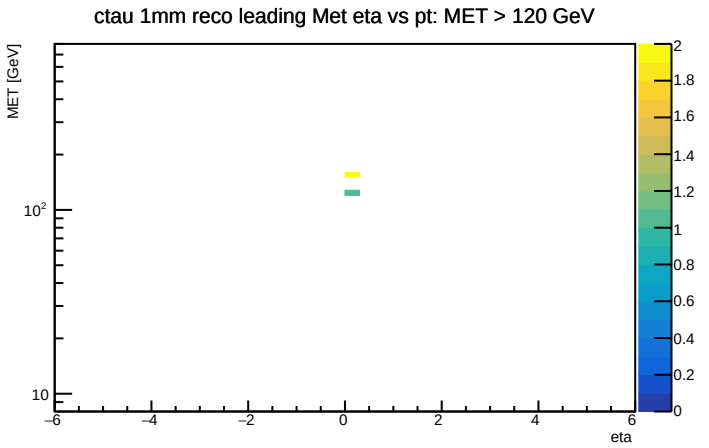

ctau 1mm gen leading Met eta vs pt: MET > 120 GeV
MET [GeV]
eta

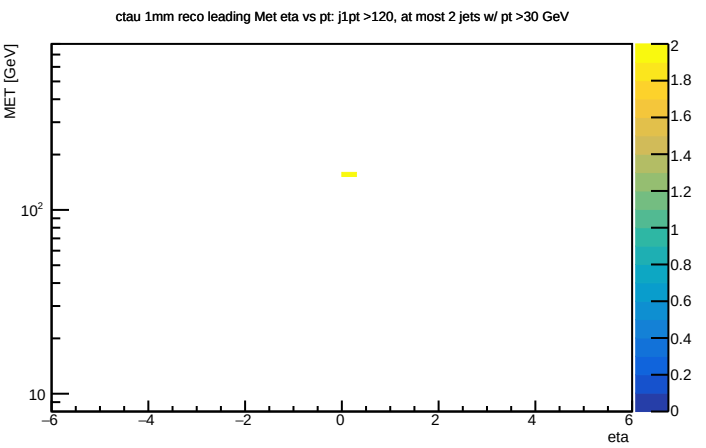

ctau 1mm gen leading Met eta vs pt: j1pt >120, at most 2 jets w/ pt >30 GeV
MET [GeV]
eta

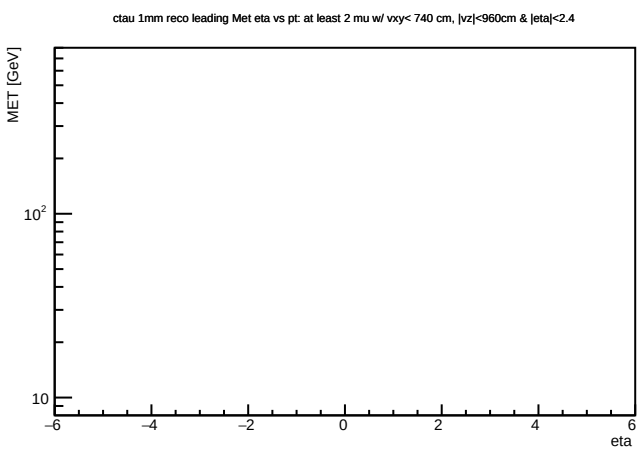

ctau 1mm gen leading Met eta vs pt: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4
MET [GeV]
eta

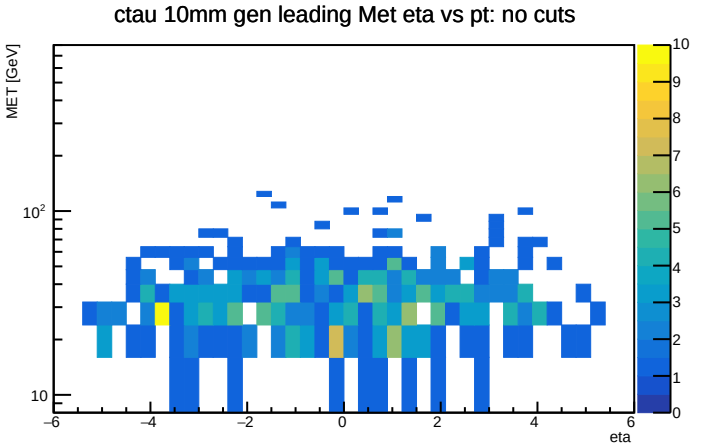

ctau 1mm reco leading Met eta vs pt: no cuts
MET [GeV]
eta

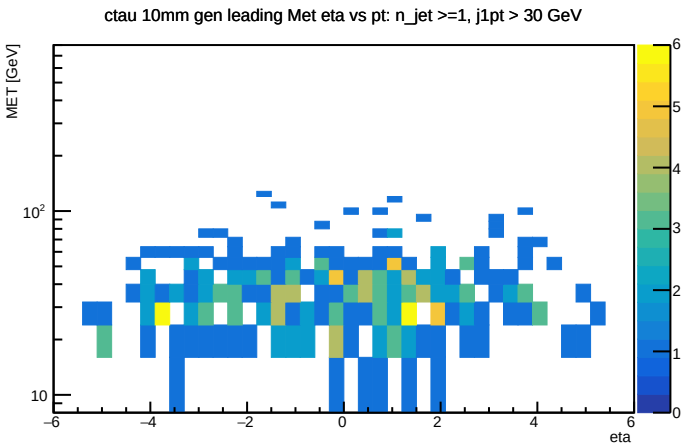

ctau 1mm reco leading Met eta vs pt: n_jet >=1, j1pt > 30 GeV
MET [GeV]
eta

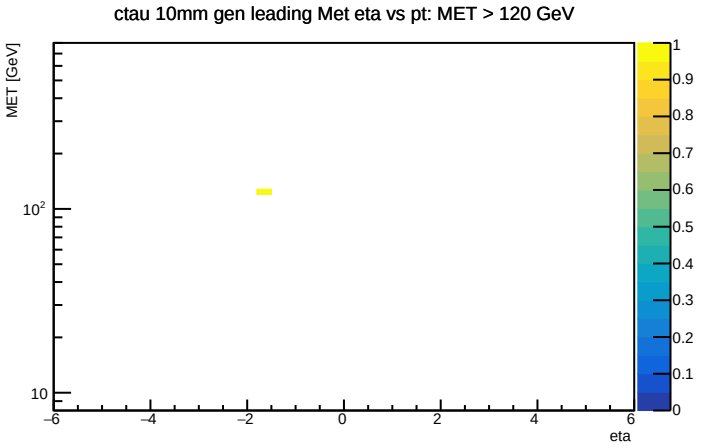

ctau 1mm reco leading Met eta vs pt: MET > 120 GeV
MET [GeV]
eta

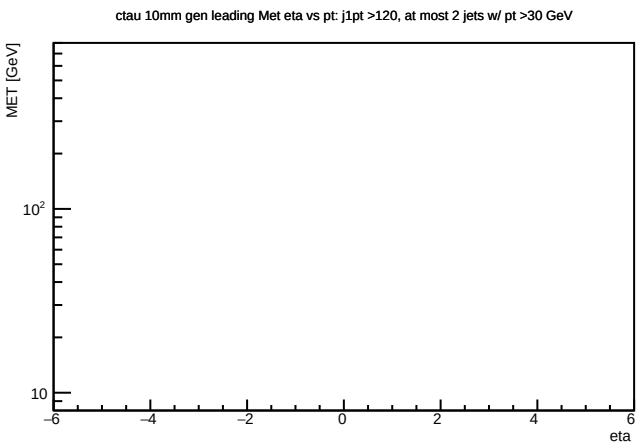

ctau 1mm reco leading Met eta vs pt: j1pt >120, at most 2 jets w/ pt >30 GeV
MET [GeV]
eta

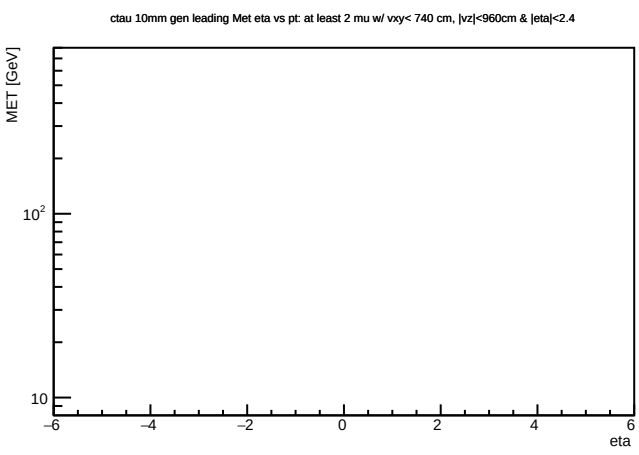

ctau 1mm reco leading Met eta vs pt: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4
MET [GeV]
eta


ctau 10mm gen leading Met eta vs pt: no cuts
MET [GeV]
eta

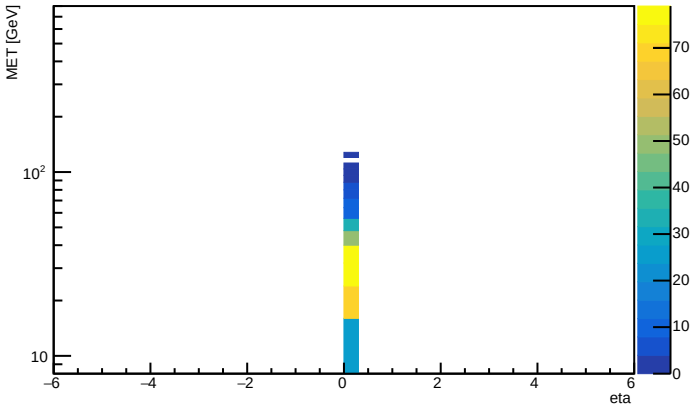

ctau 10mm gen leading Met eta vs pt: n_jet >=1, j1pt > 30 GeV
MET [GeV]
eta


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

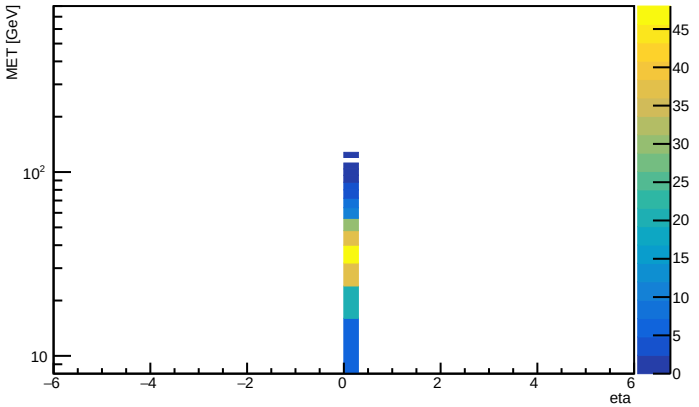

ctau 10mm gen leading Met eta vs pt: j1pt >120, at most 2 jets w/ pt >30 GeV
MET [GeV]
eta


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

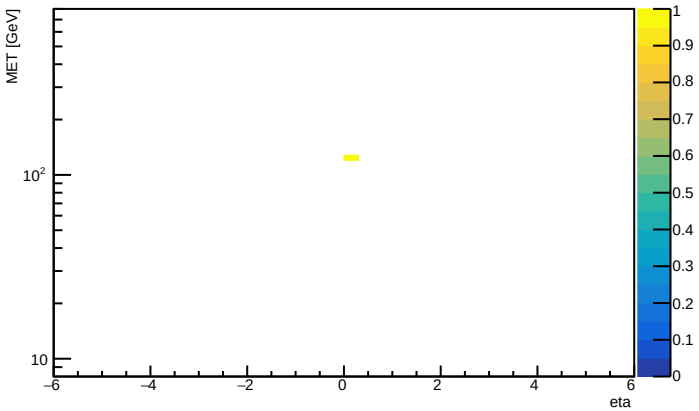
ctau 10mm reco leading Met eta vs pt: no cuts



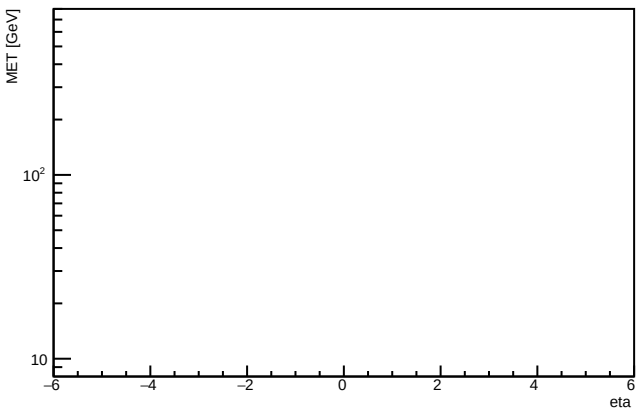
ctau 10mm reco leading Met eta vs pt: n_jet >=1, j1pt > 30 GeV



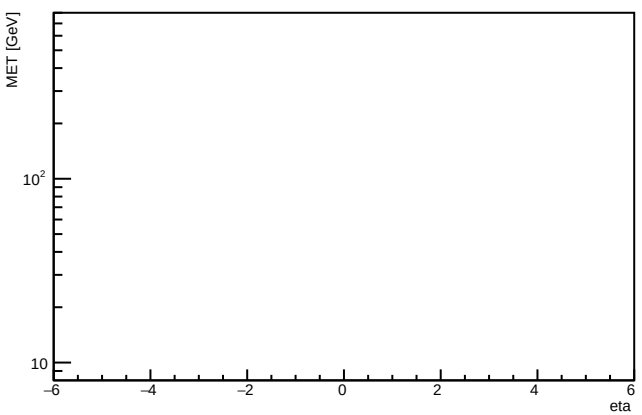
ctau 10mm reco leading Met eta vs pt: MET > 120 GeV



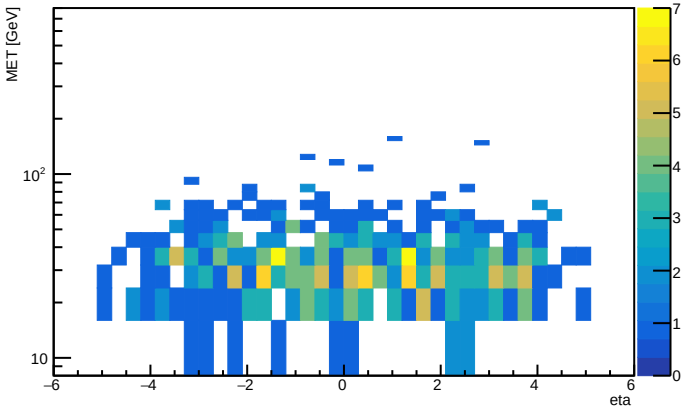
ctau 10mm reco leading Met eta vs pt: j1pt >120, at most 2 jets w/ pt >30 GeV



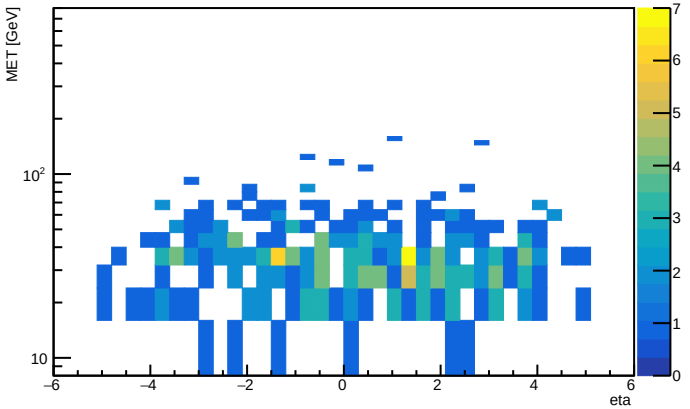
ctau 10mm reco leading Met eta vs pt: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



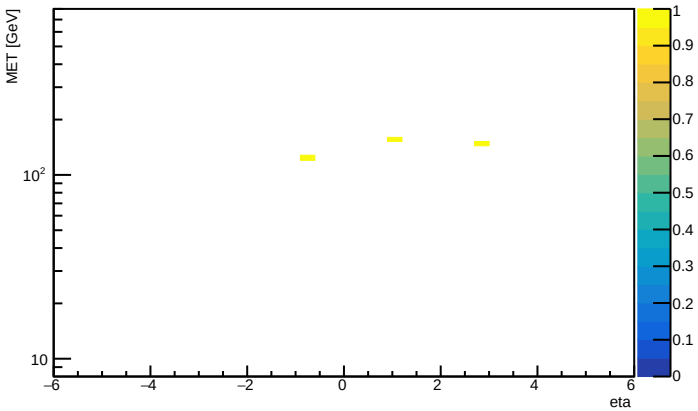
ctau 100mm gen leading Met eta vs pt: no cuts



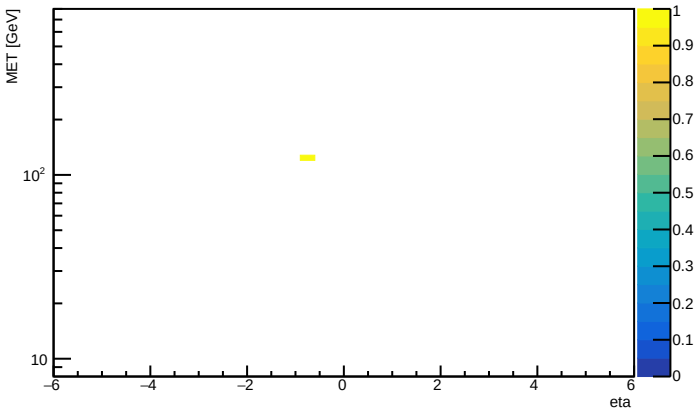
ctau 100mm gen leading Met eta vs pt: n_jet >=1, j1pt > 30 GeV



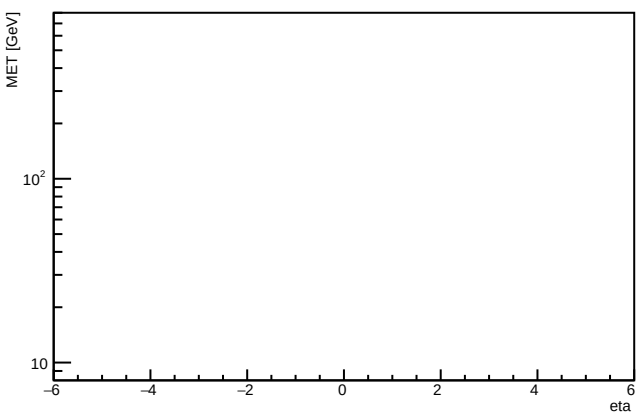
ctau 100mm gen leading Met eta vs pt: MET > 120 GeV

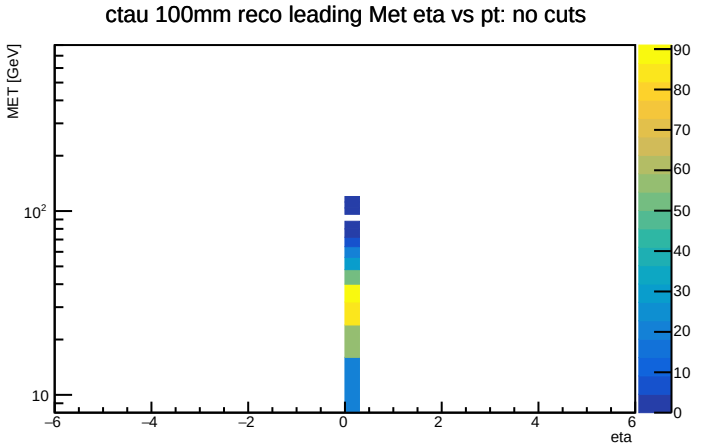


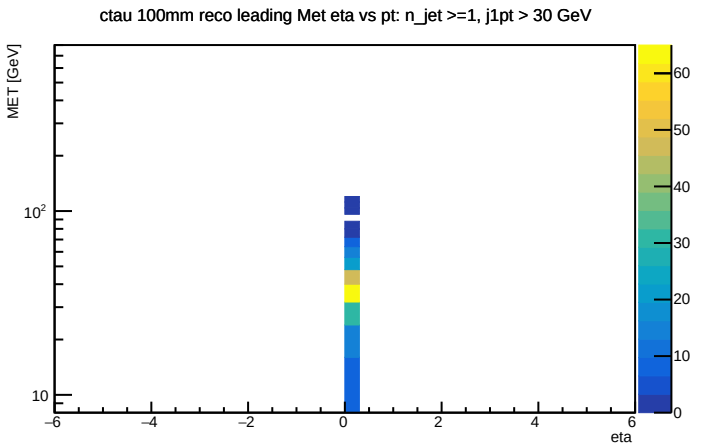
ctau 100mm gen leading Met eta vs pt: j1pt >120, at most 2 jets w/ pt >30 GeV

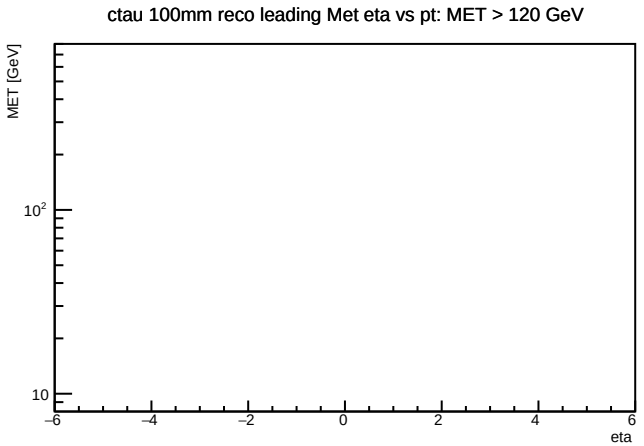


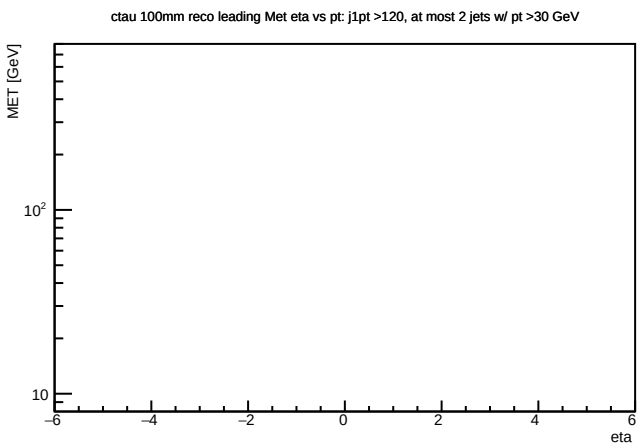
ctau 100mm gen leading Met eta vs pt: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4

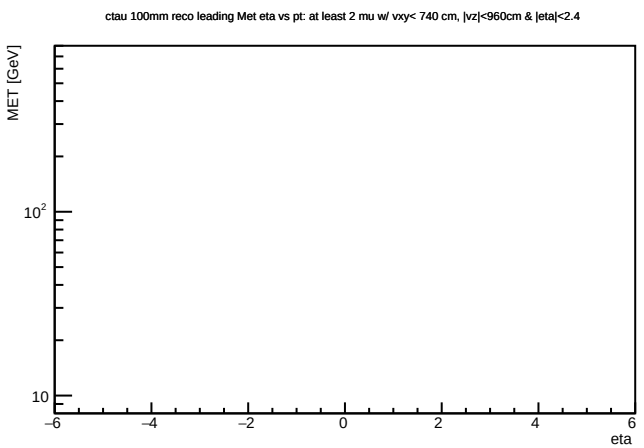


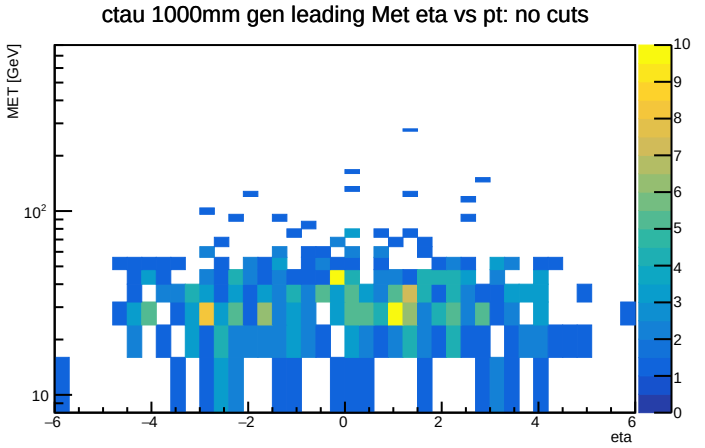

ctau 100mm reco leading Met eta vs pt: no cuts
MET [GeV]
10^2
10
−6
−4
−2
0
2
4
6
eta
90
80
70
60
50
40
30
20
10
0

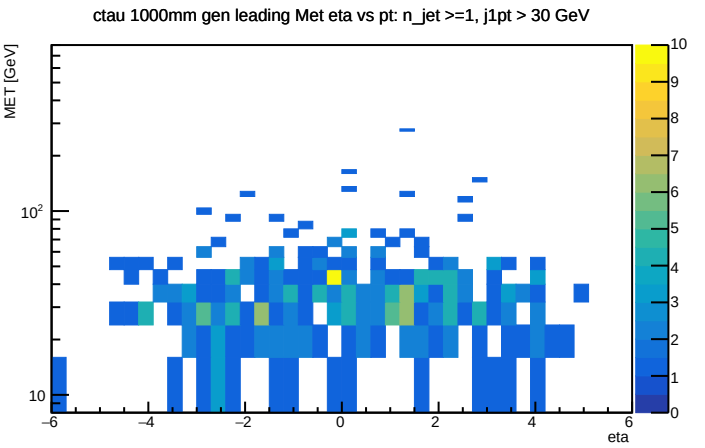

ctau 100mm reco leading Met eta vs pt: n_jet >=1, j1pt > 30 GeV
MET [GeV]
10^2
10
−6
−4
−2
0
2
4
6
eta
60
50
40
30
20
10
0

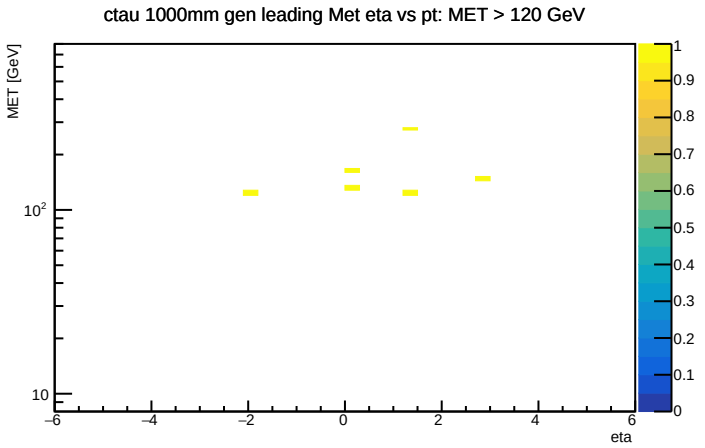

ctau 100mm reco leading Met eta vs pt: MET > 120 GeV
MET [GeV]
10^2
10
−6
−4
−2
0
2
4
6
eta

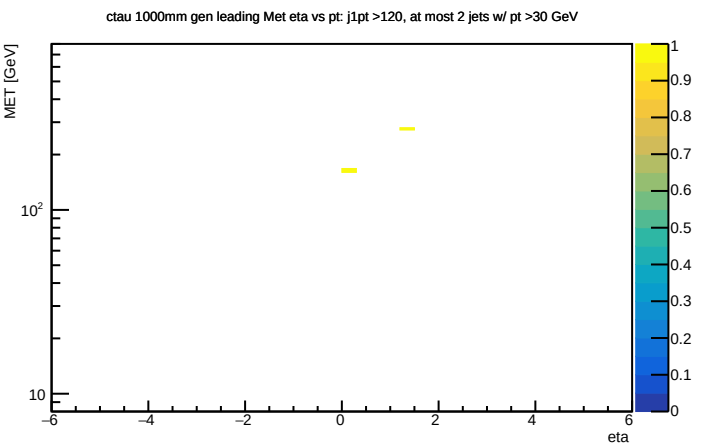

ctau 100mm reco leading Met eta vs pt: j1pt >120, at most 2 jets w/ pt >30 GeV
MET [GeV]
10^2
10
−6
−4
−2
0
2
4
6
eta

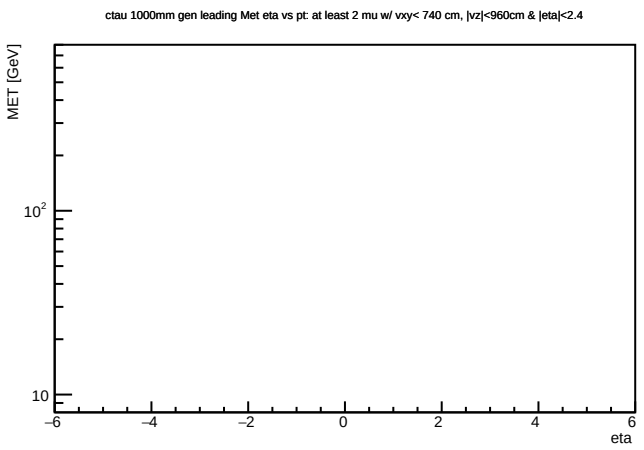

ctau 100mm reco leading Met eta vs pt: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4
MET [GeV]
10^2
10
−6
−4
−2
0
2
4
6
eta


ctau 1000mm gen leading Met eta vs pt: no cuts
MET [GeV]
eta

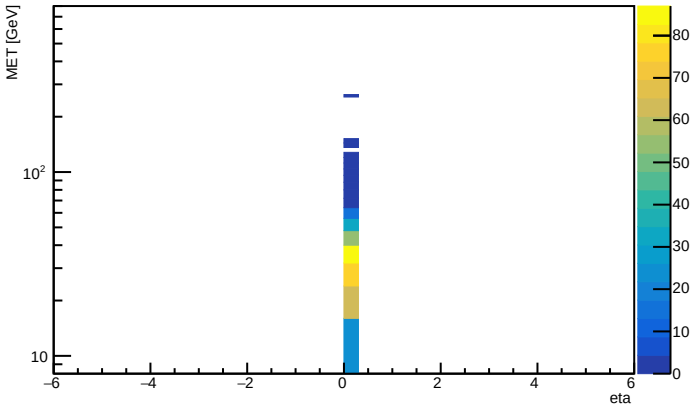

ctau 1000mm gen leading Met eta vs pt: n_jet >=1, j1pt > 30 GeV
MET [GeV]
eta


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

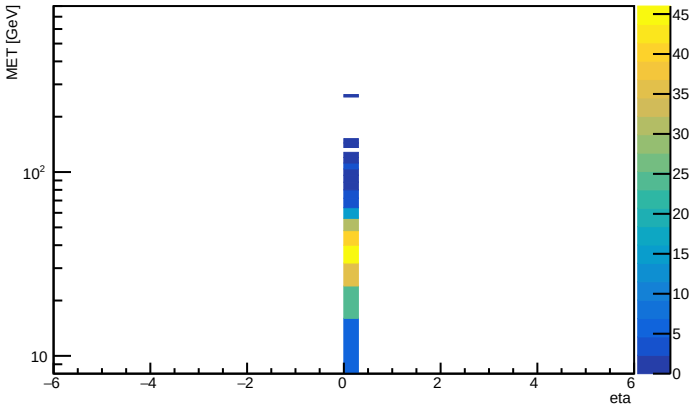

ctau 1000mm gen leading Met eta vs pt: j1pt >120, at most 2 jets w/ pt >30 GeV
MET [GeV]
eta


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

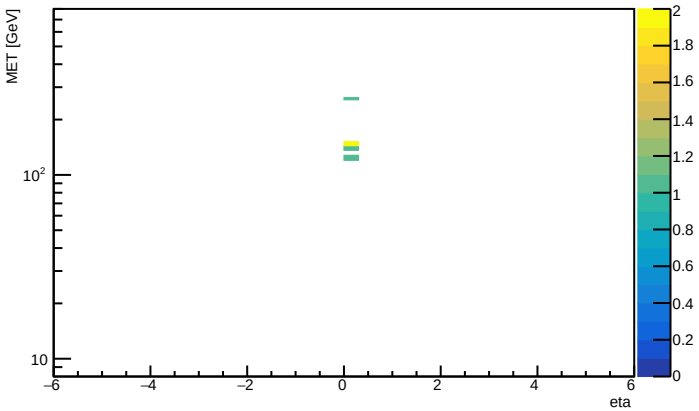
ctau 1000mm reco leading Met eta vs pt: no cuts



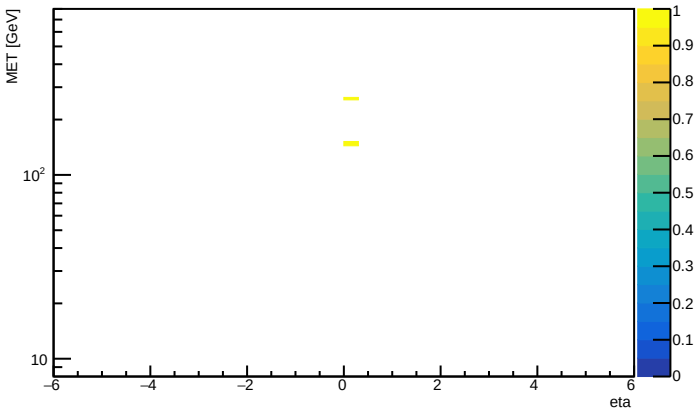
ctau 1000mm reco leading Met eta vs pt: n_jet >=1, j1pt > 30 GeV



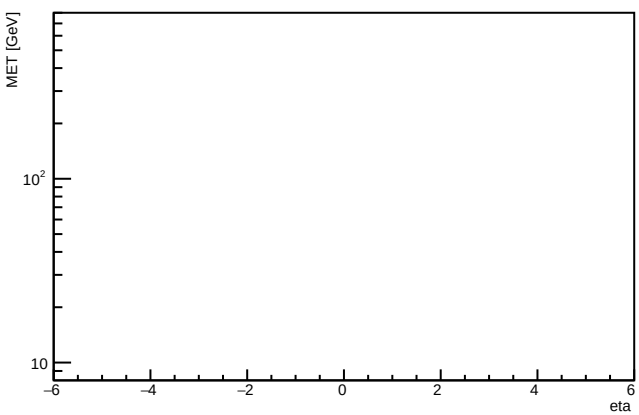
ctau 1000mm reco leading Met eta vs pt: MET > 120 GeV



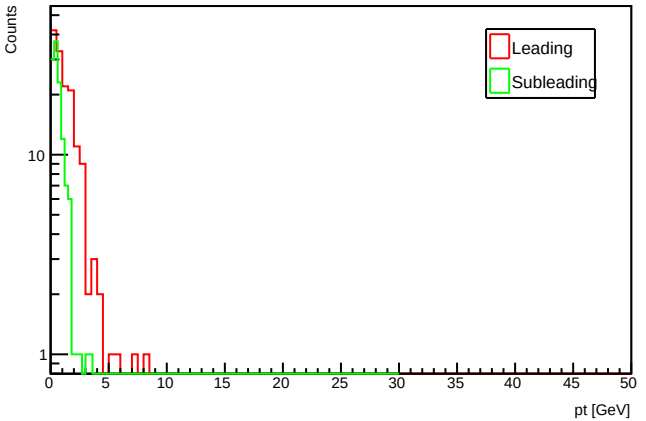
ctau 1000mm reco leading Met eta vs pt: j1pt >120, at most 2 jets w/ pt >30 GeV



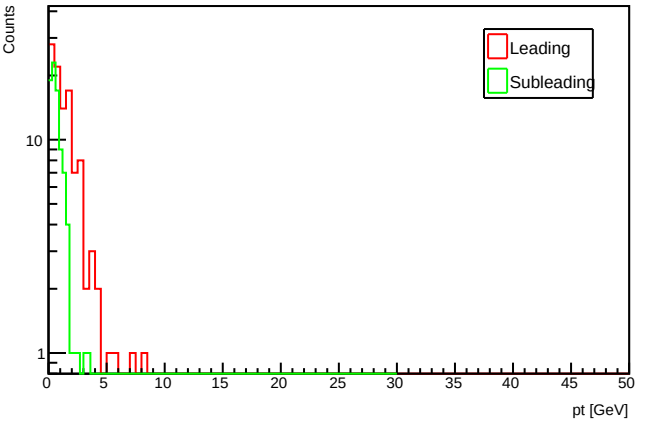
ctau 1000mm reco leading Met eta vs pt: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



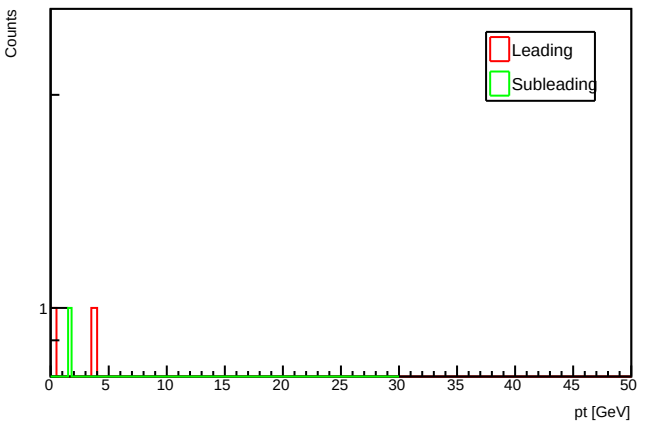
ctau 1mm leading vs subleading Mu pt: no cuts



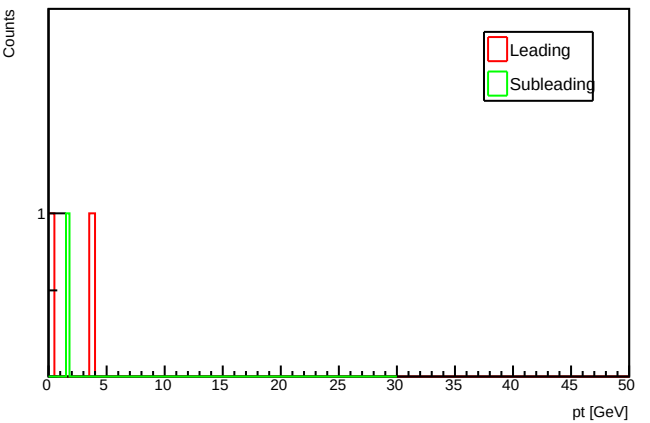
ctau 1mm leading vs subleading Mu pt: n_jet >=1, j1pt > 30 GeV



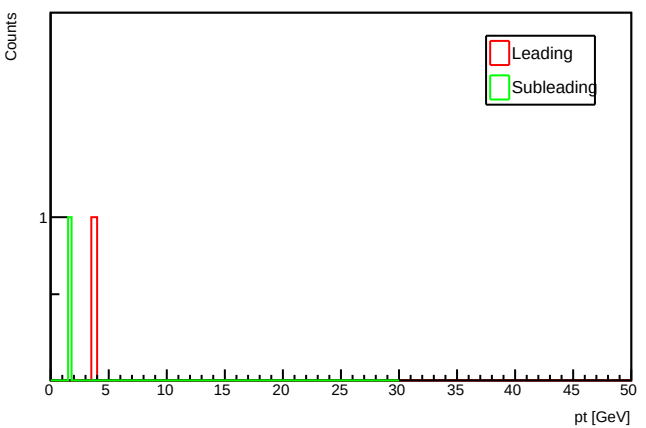
ctau 1mm leading vs subleading Mu pt: MET > 120 GeV



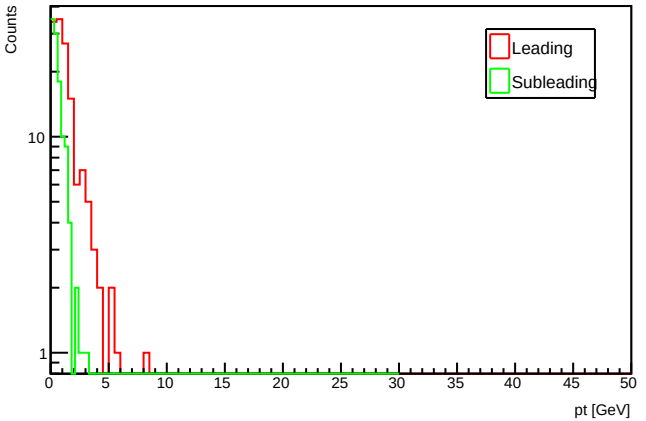
ctau 1mm leading vs subleading Mu pt: j1pt >120, at most 2 jets w/ pt >30 GeV



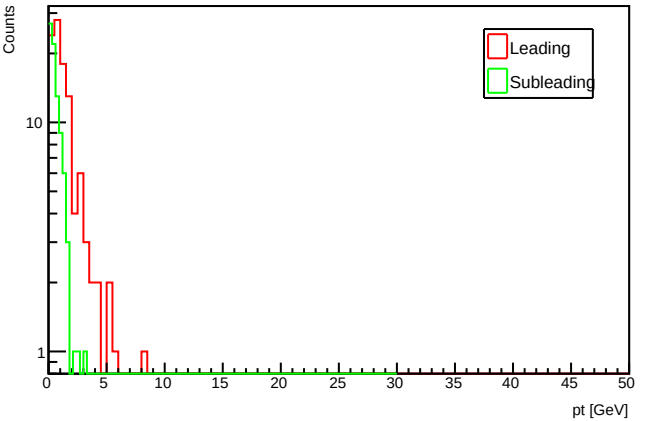
ctau 1mm leading vs subleading Mu pt: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4



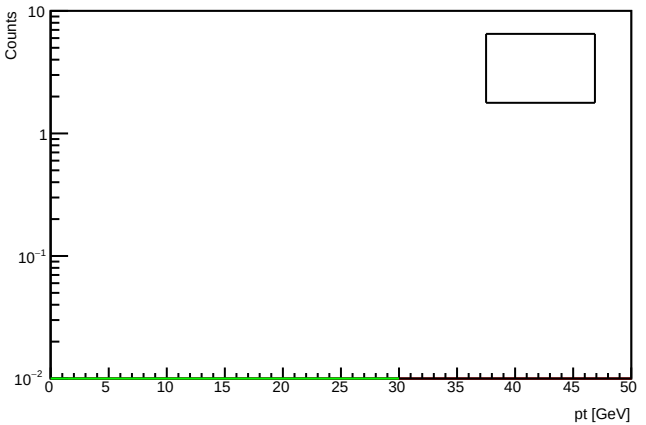
ctau 10mm leading vs subleading Mu pt: no cuts



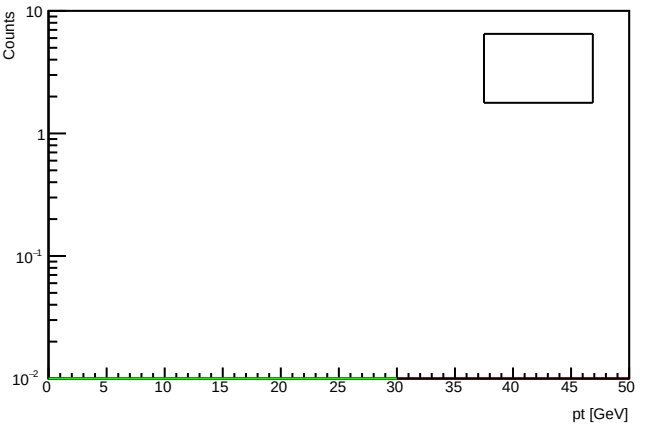
ctau 10mm leading vs subleading Mu pt: n_jet >=1, j1pt > 30 GeV



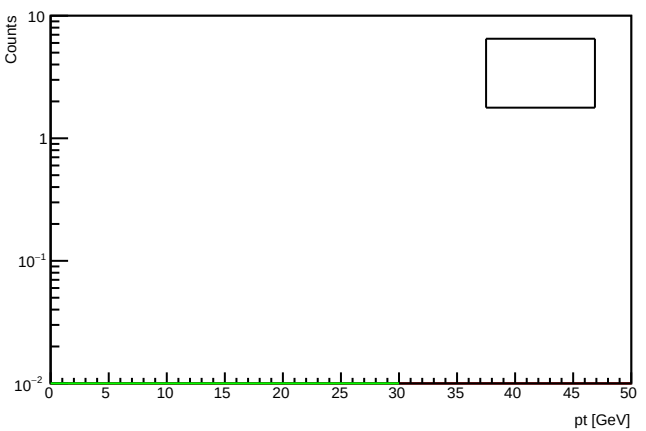
ctau 10mm leading vs subleading Mu pt: MET > 120 GeV

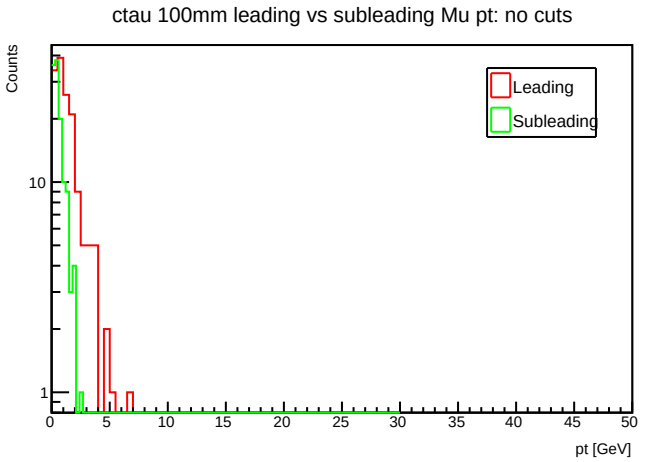


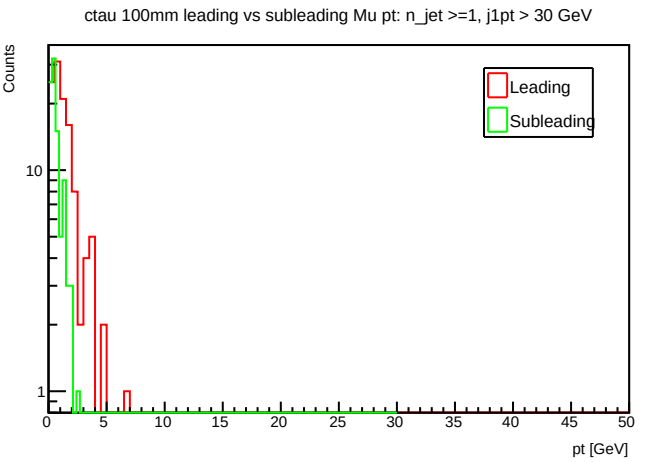
ctau 10mm leading vs subleading Mu pt: j1pt >120, at most 2 jets w/ pt >30 GeV

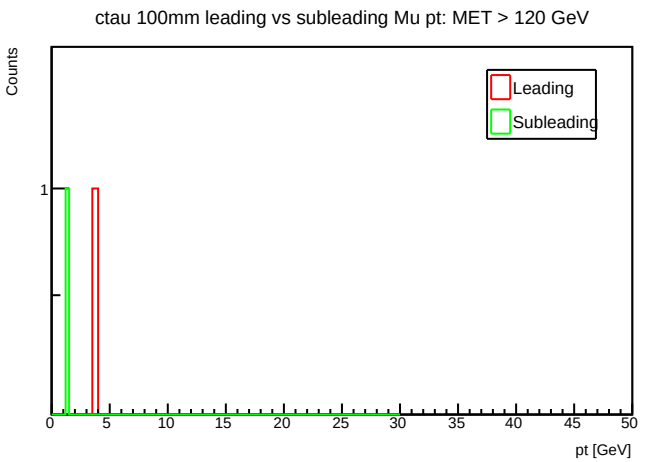


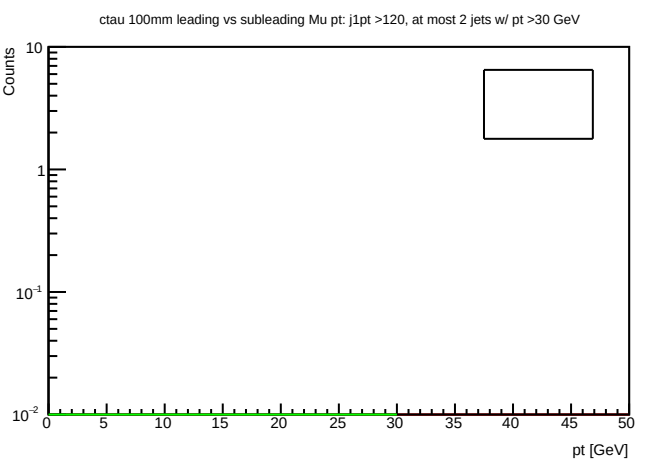
ctau 10mm leading vs subleading Mu pt: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4

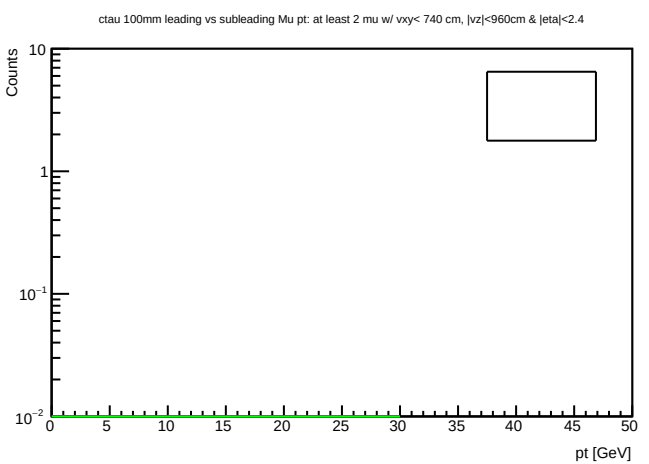



ctau 100mm leading vs subleading Mu pt: no cuts
Counts
Leading
Subleading
pt [GeV]

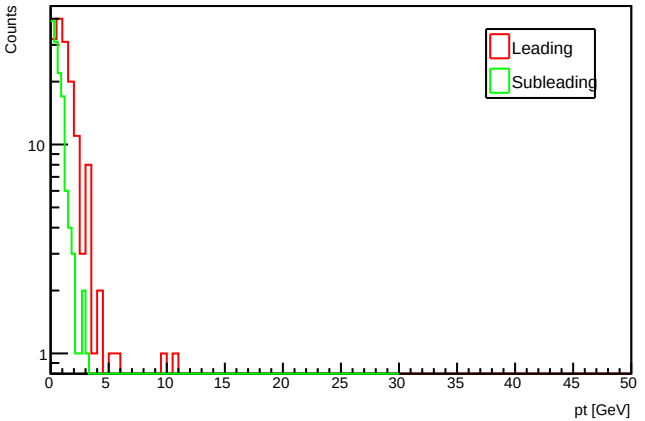

ctau 100mm leading vs subleading Mu pt: n_jet >=1, j1pt > 30 GeV
Counts
Leading
Subleading
pt [GeV]


ctau 100mm leading vs subleading Mu pt: MET > 120 GeV
Counts
Leading
Subleading
pt [GeV]

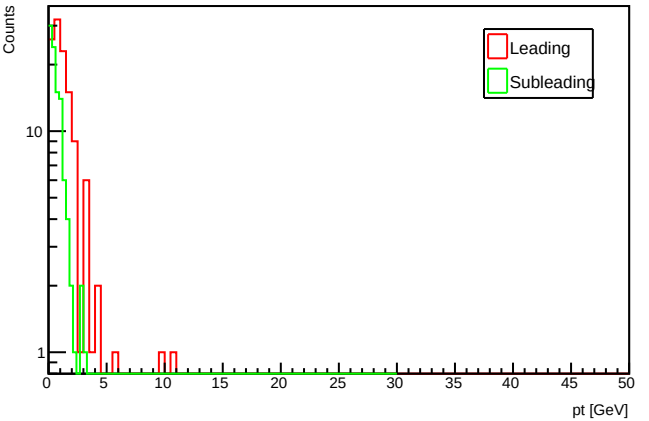

ctau 100mm leading vs subleading Mu pt: j1pt >120, at most 2 jets w/ pt >30 GeV
Counts
pt [GeV]


ctau 100mm leading vs subleading Mu pt: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4
Counts
pt [GeV]

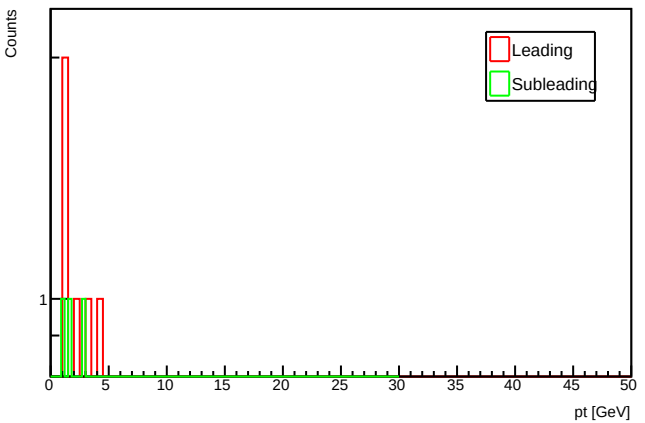
ctau 1000mm leading vs subleading Mu pt: no cuts



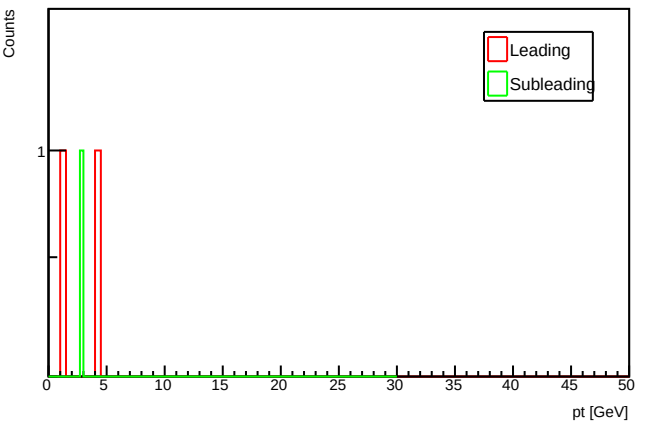
ctau 1000mm leading vs subleading Mu pt: n_jet >=1, j1pt > 30 GeV



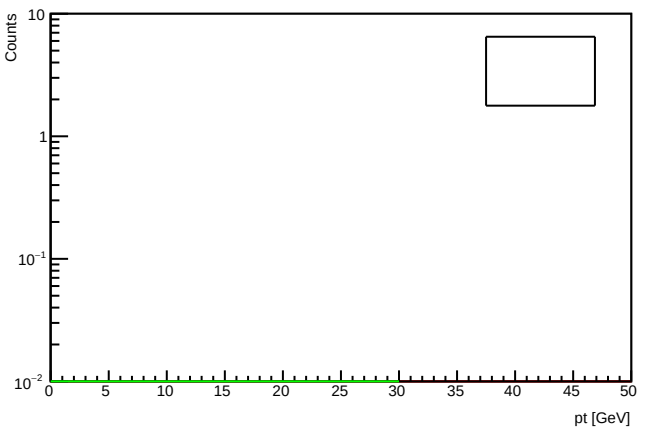
ctau 1000mm leading vs subleading Mu pt: MET > 120 GeV



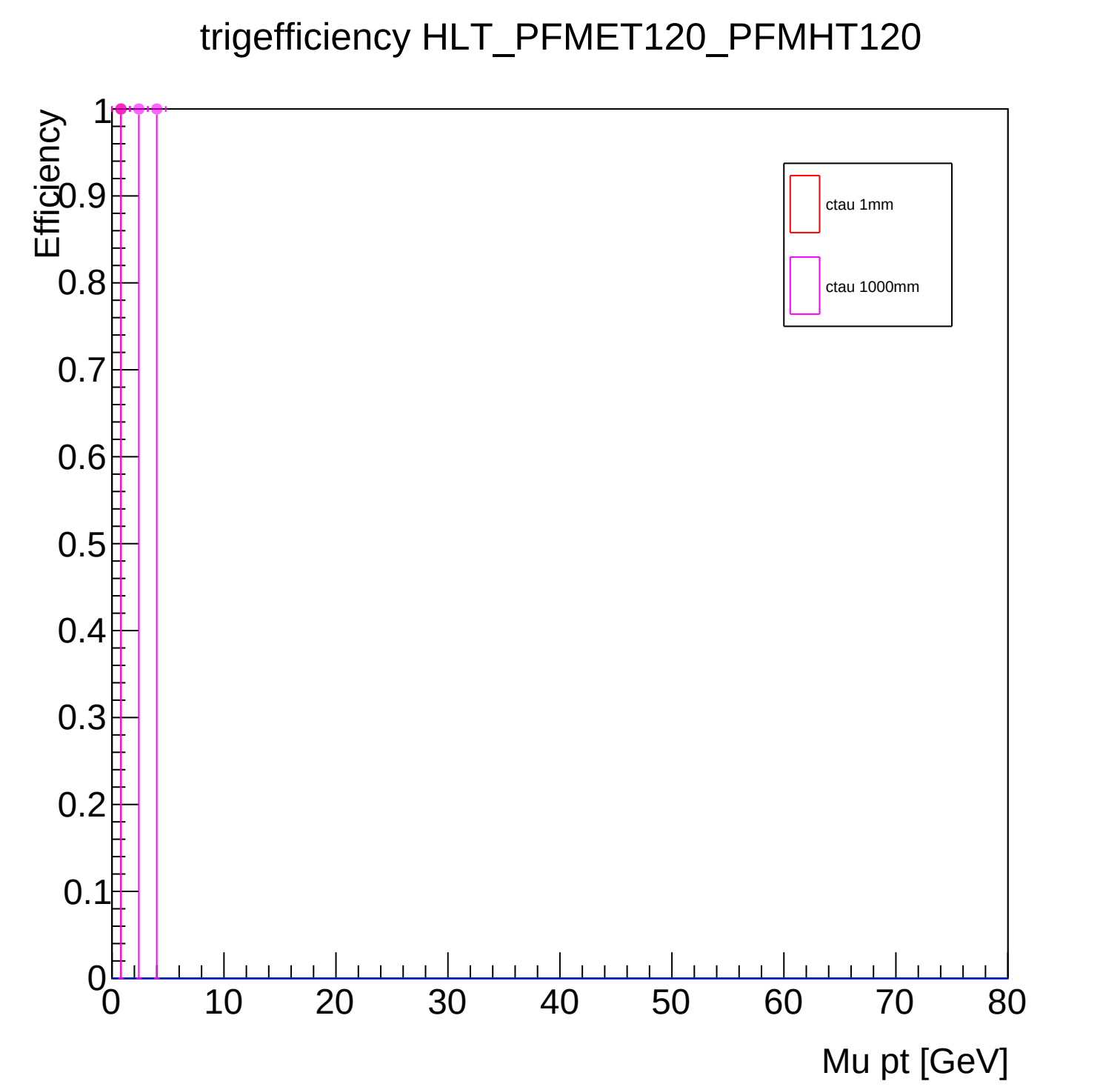
ctau 1000mm leading vs subleading Mu pt: j1pt >120, at most 2 jets w/ pt >30 GeV

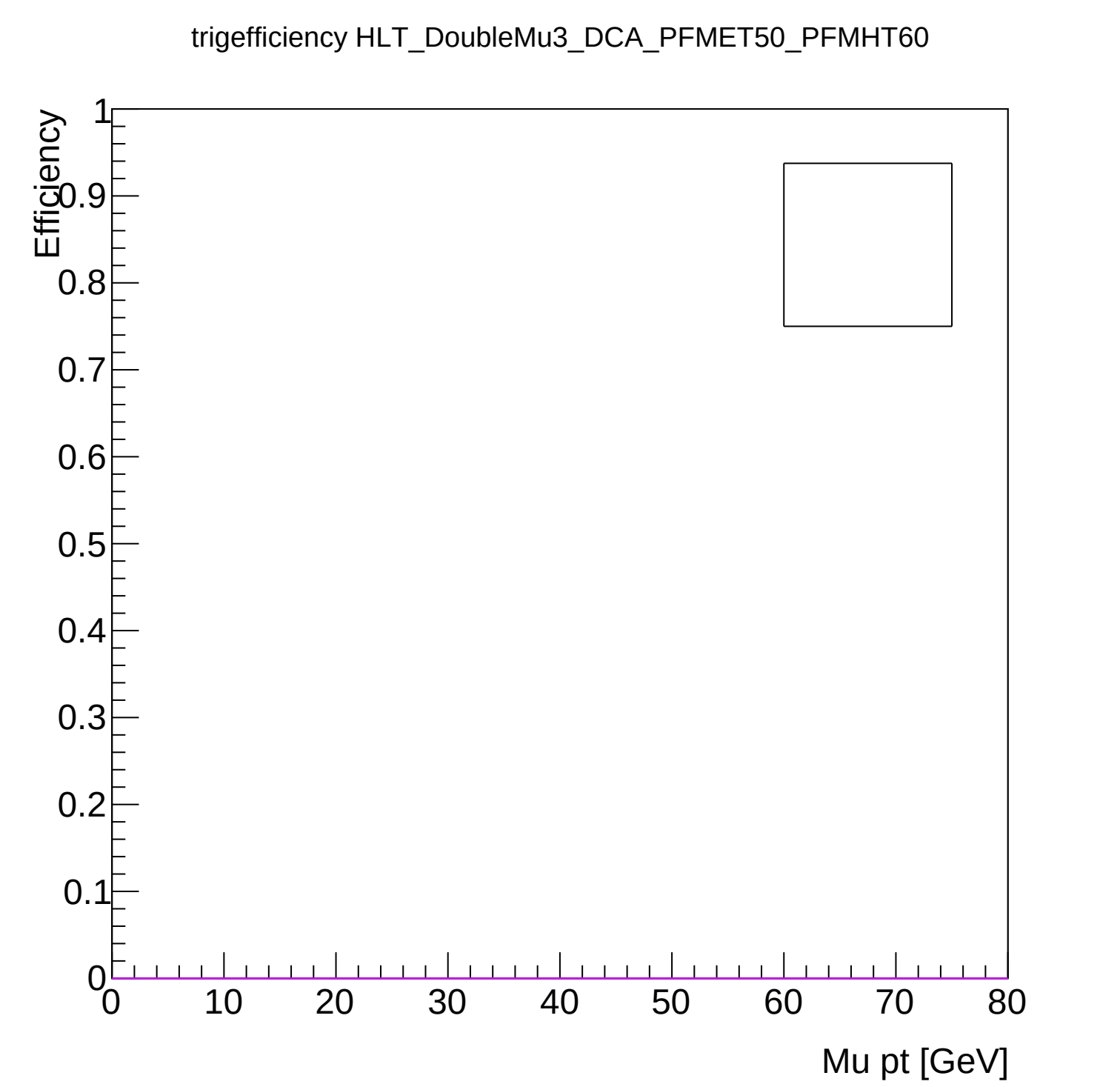


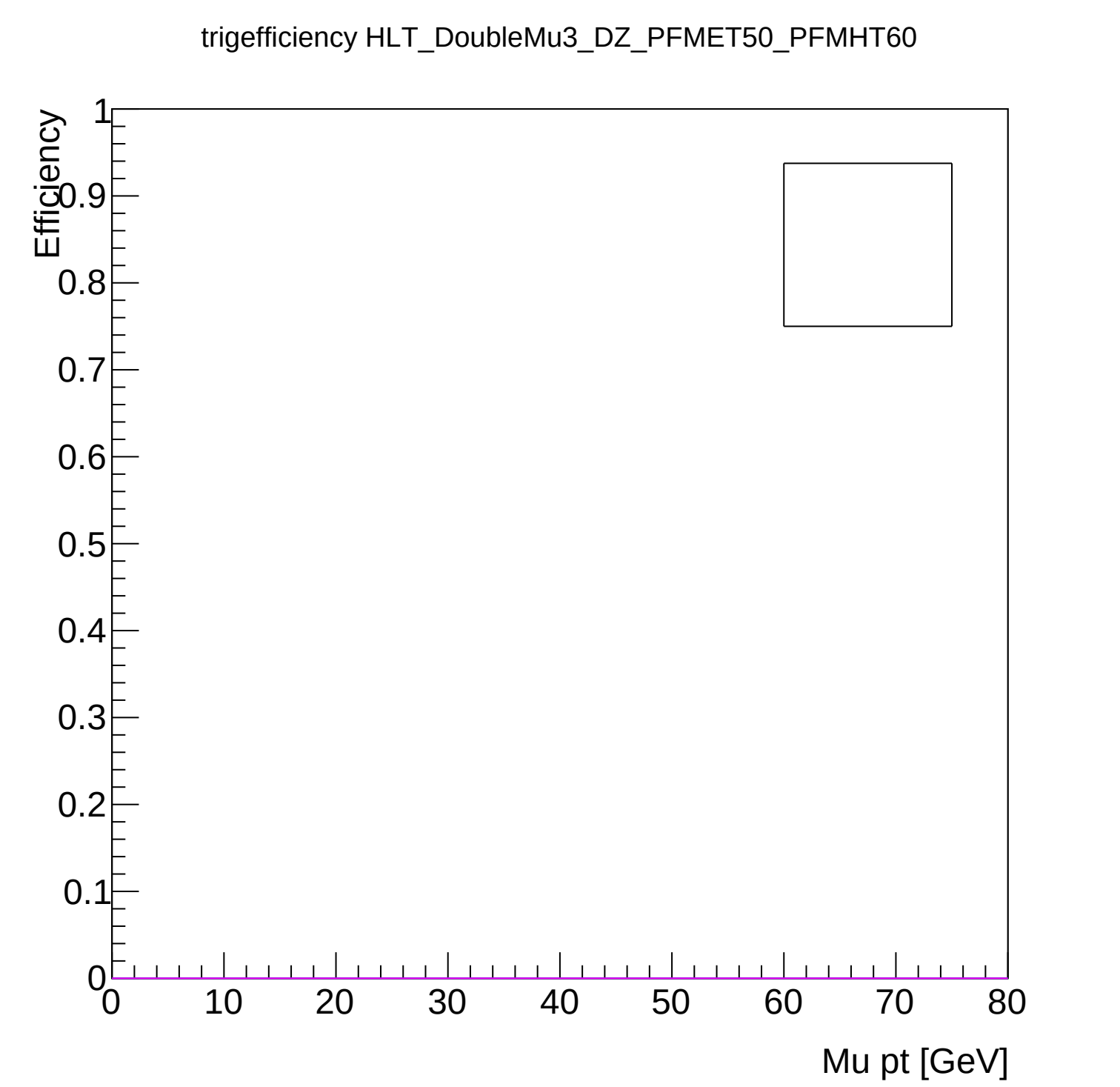
ctau 1000mm leading vs subleading Mu pt: at least 2 mu w/ vxy< 740 cm, |vz|<960cm & |eta|<2.4

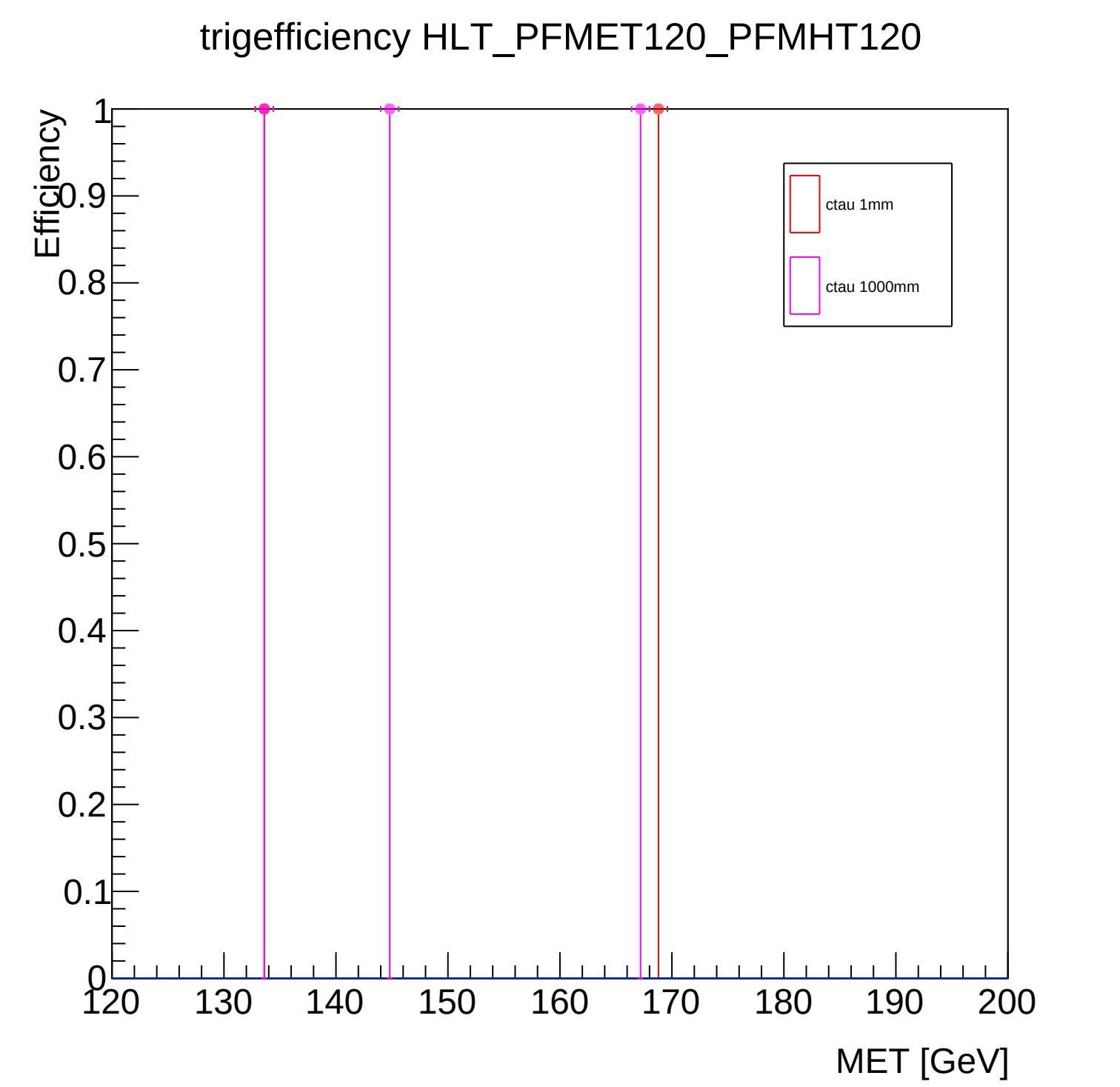


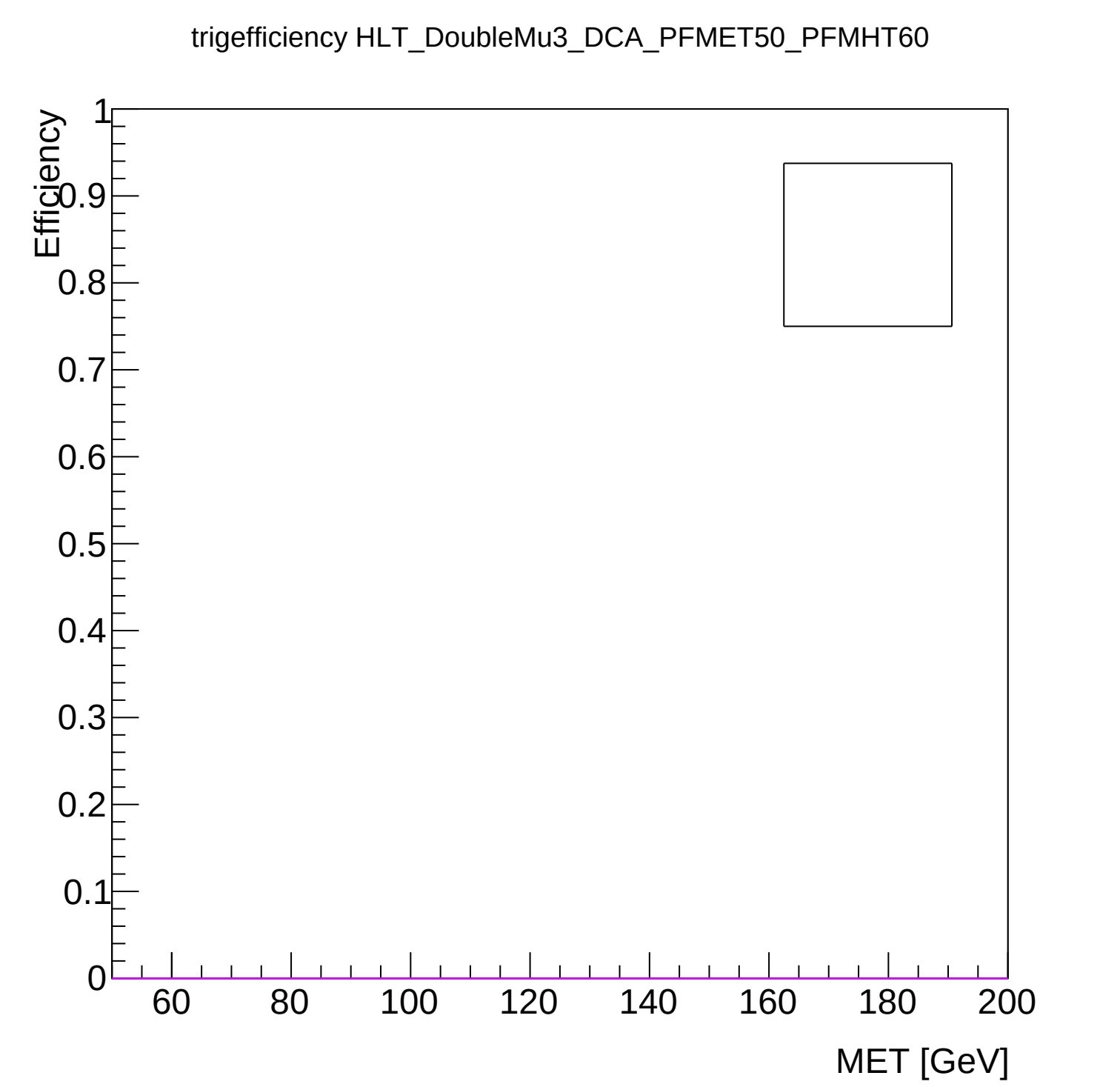
efficiencies

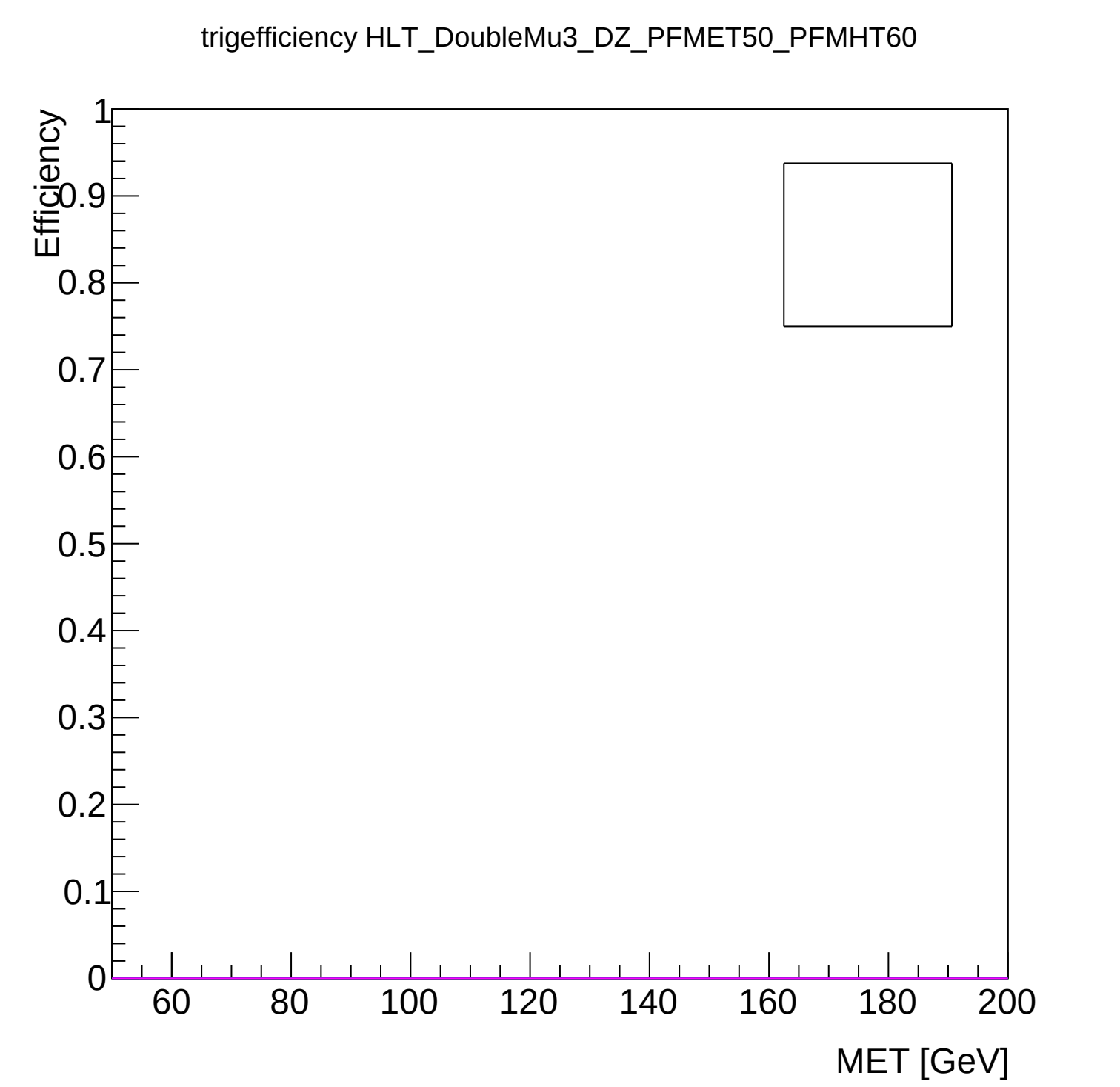

trigefficiency HLT_PFMET120_PFMHT120
Efficiency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
10
20
30
40
50
60
70
80
Mu pt [GeV]
ctau 1mm
ctau 1000mm

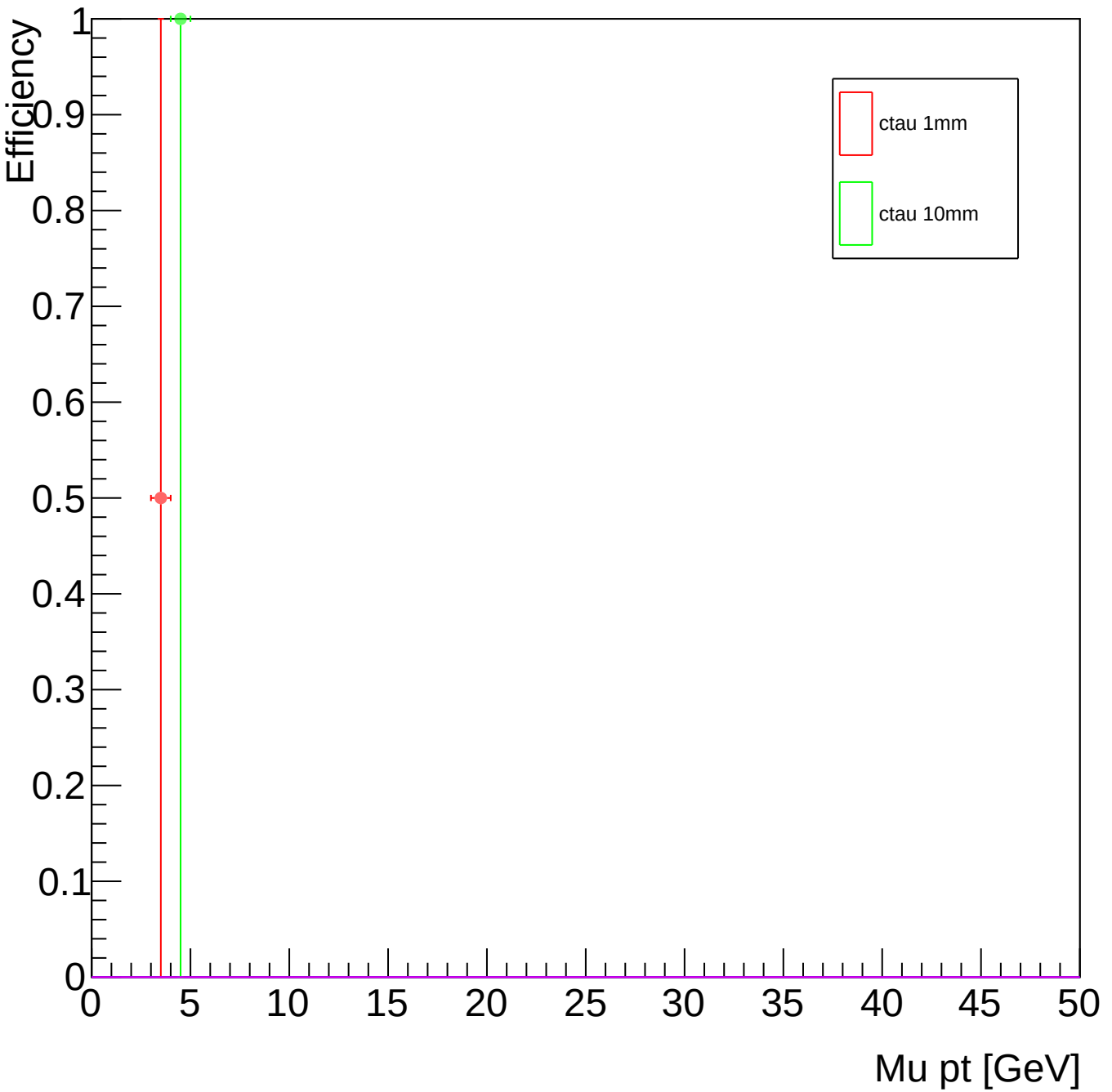

trigefficiency HLT_DoubleMu3_DCA_PFMET50_PFMHT60
Efficiency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
10
20
30
40
50
60
70
80
Mu pt [GeV]

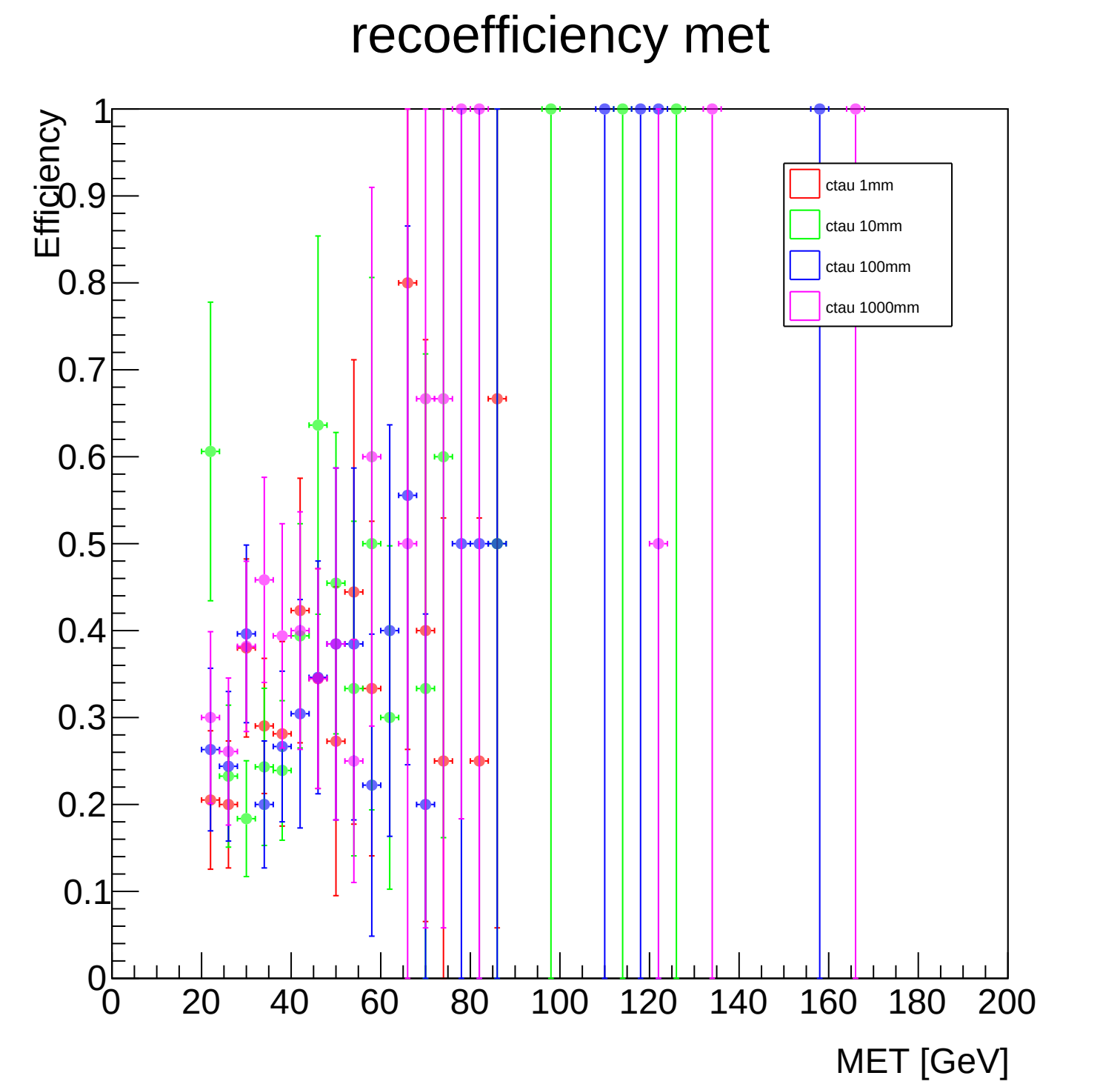

trigefficiency HLT_DoubleMu3_DZ_PFMET50_PFMHT60
Efficiency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
10
20
30
40
50
60
70
80
Mu pt [GeV]

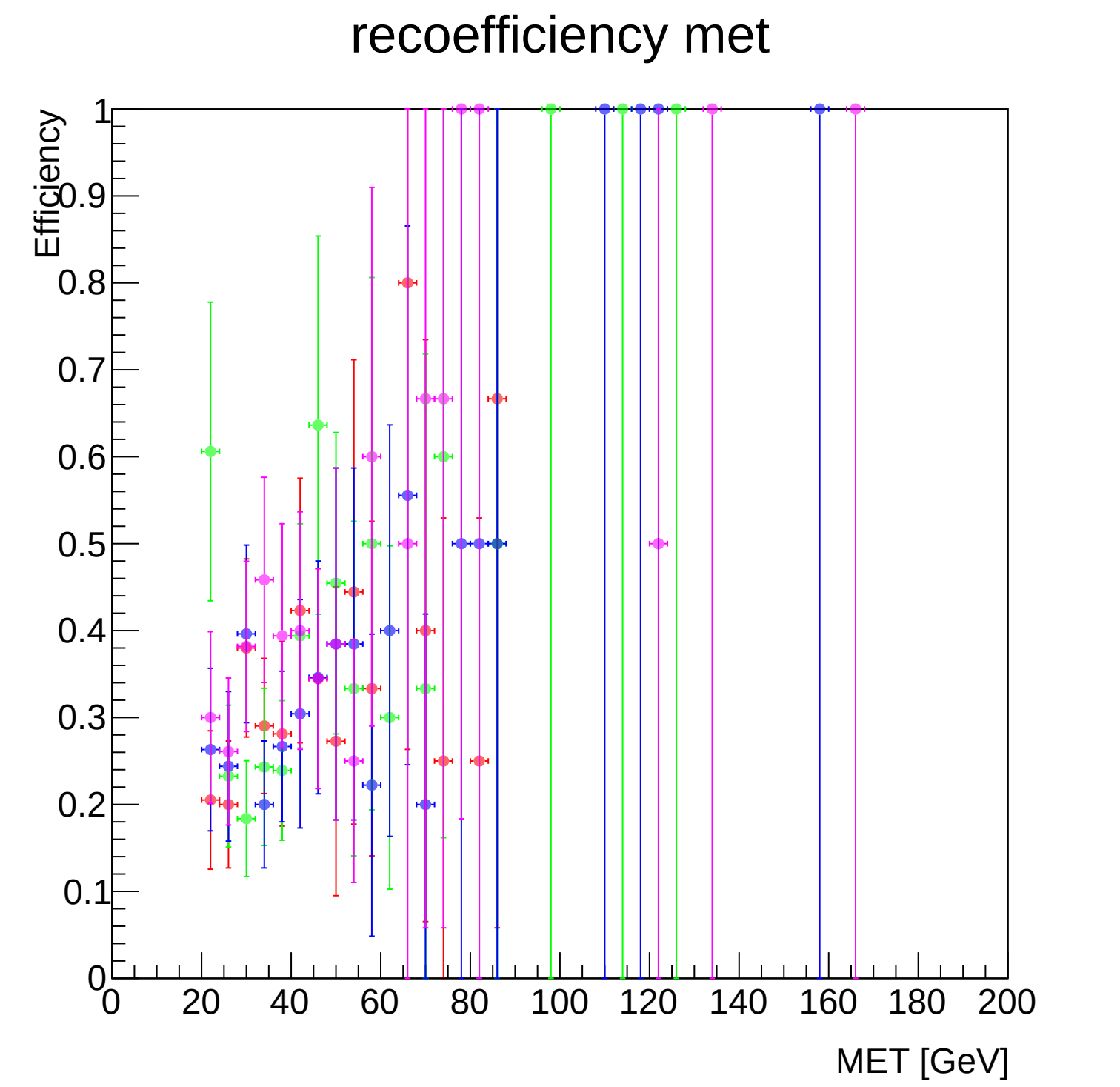

trigefficiency HLT_PFMET120_PFMHT120
Efficiency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
120
130
140
150
160
170
180
190
200
MET [GeV]
ctau 1mm
ctau 1000mm


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


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


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


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]