ctau 10cm

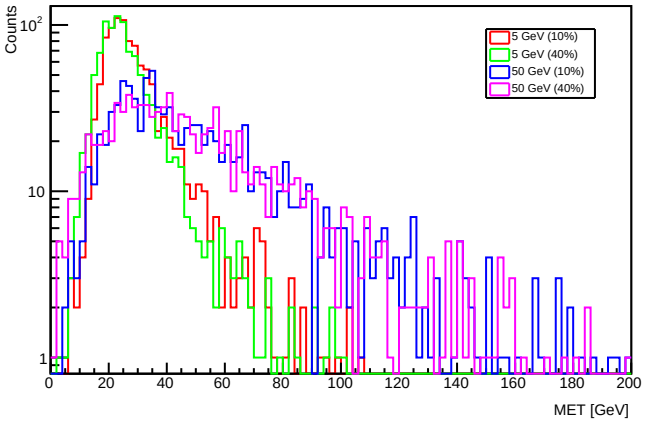
nevents 5 GeV (10%): 1000(c1:357(259),c2:0(0),c3:0(0),c4:0(0))

nevents 5 GeV (40%): 1000(c1:380(295),c2:0(0),c3:0(0),c4:0(0))

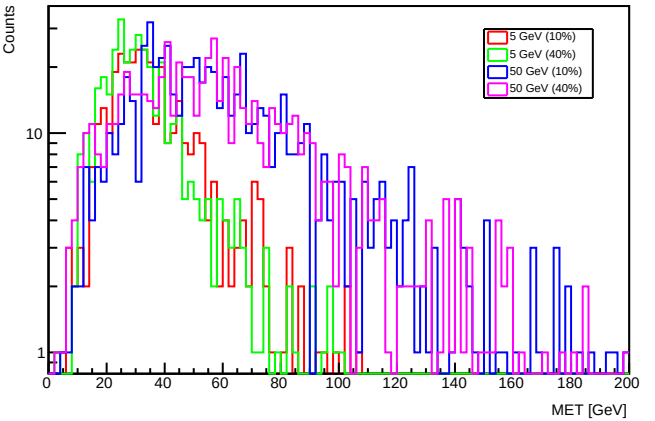
nevents 50 GeV (10%): 1000(c1:691(612),c2:67(58),c3:38(38),c4:11(38))

nevents 50 GeV (40%): 1000(c1:690(608),c2:59(50),c3:36(32),c4:11(32))

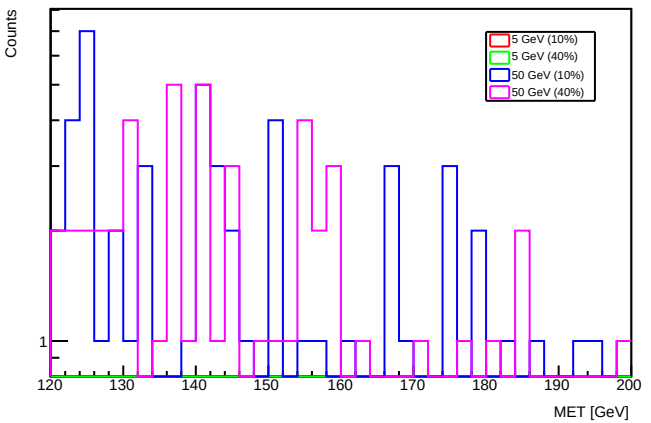
gen leading MET: no cuts



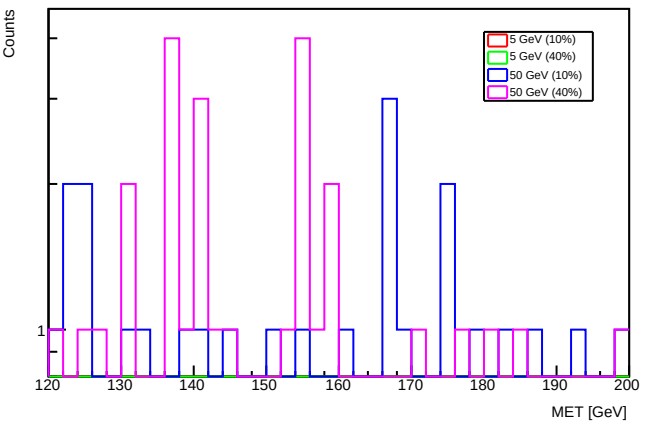
gen leading MET: n_jet >=1, j1pt > 30 GeV



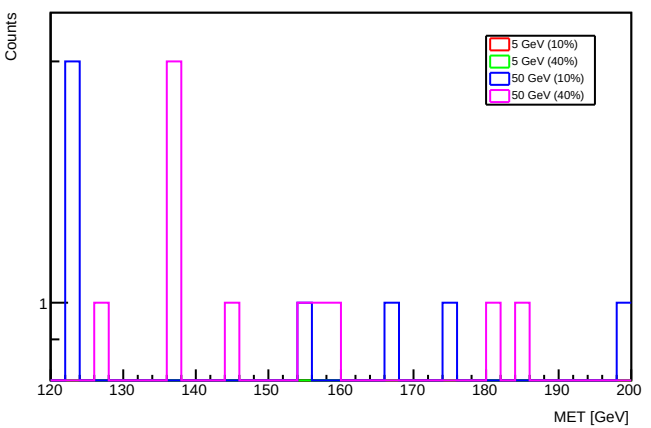
gen leading MET: MET > 120 GeV



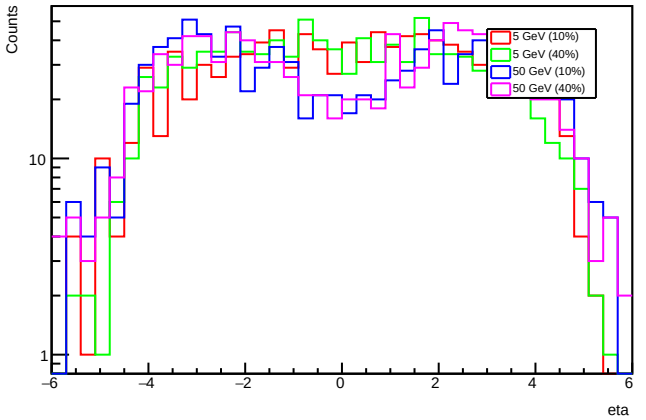
gen leading MET: j1pt >120, at most 2 jets w/ pt >30 GeV



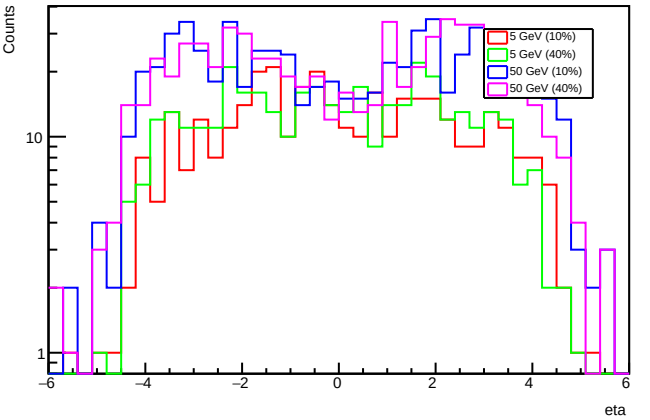
gen leading MET: at least 2 mu w/ pt > 2 GeV and eta<2.5



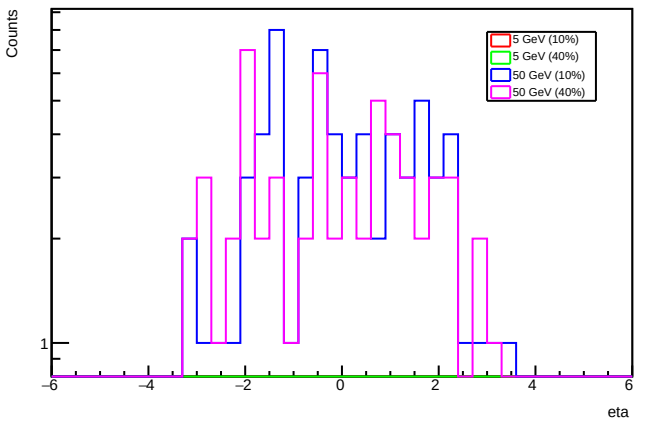
gen leading Met eta: no cuts



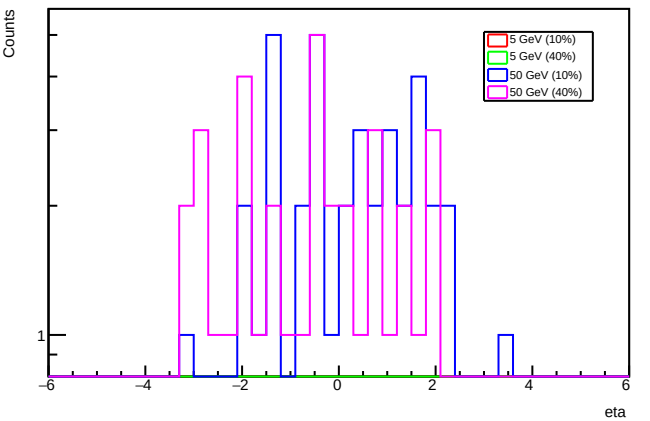
gen leading Met eta: n_jet >=1, j1pt > 30 GeV



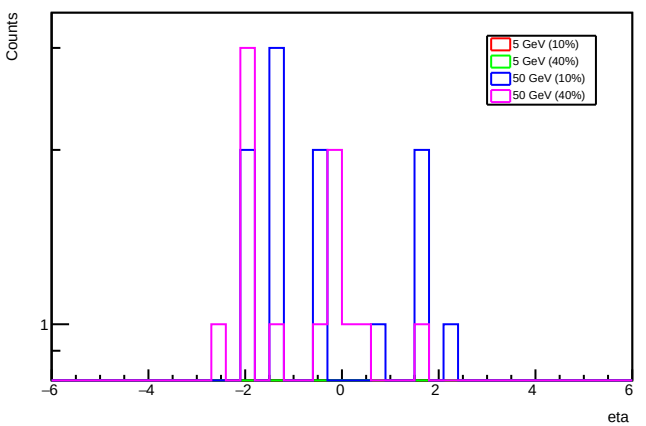
gen leading Met eta: MET > 120 GeV



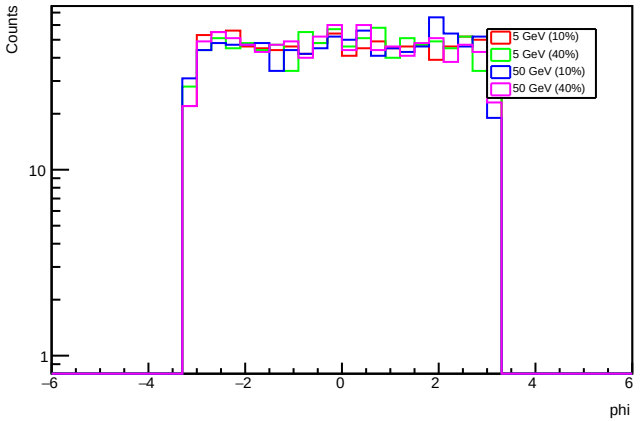
gen leading Met eta: j1pt >120, at most 2 jets w/ pt >30 GeV



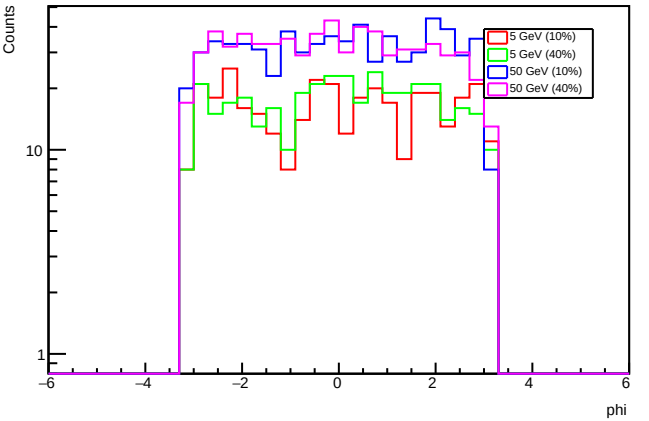
gen leading Met eta: at least 2 mu w/ pt > 2 GeV and eta<2.5



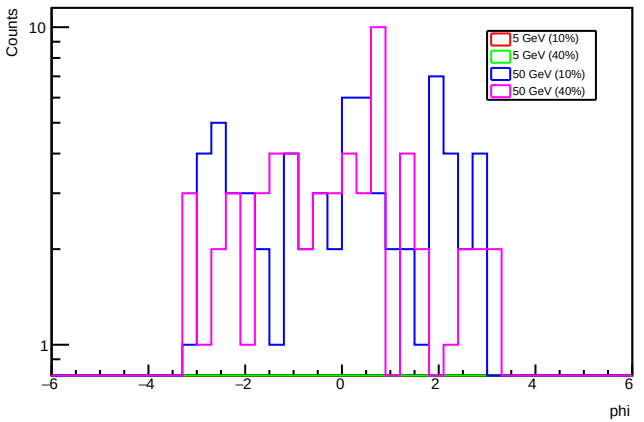
gen leading Met phi: no cuts



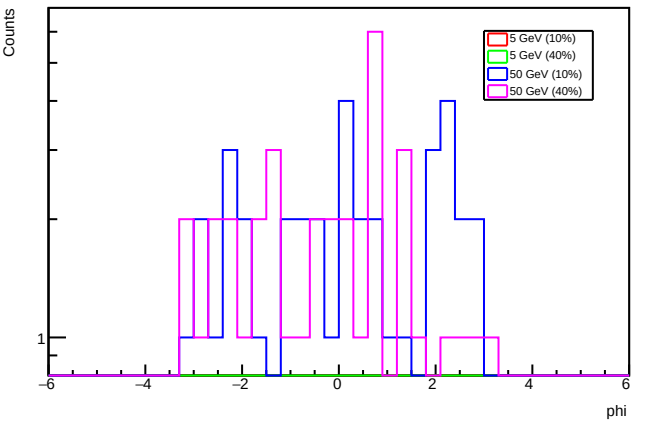
gen leading Met phi: n_jet >=1, j1pt > 30 GeV



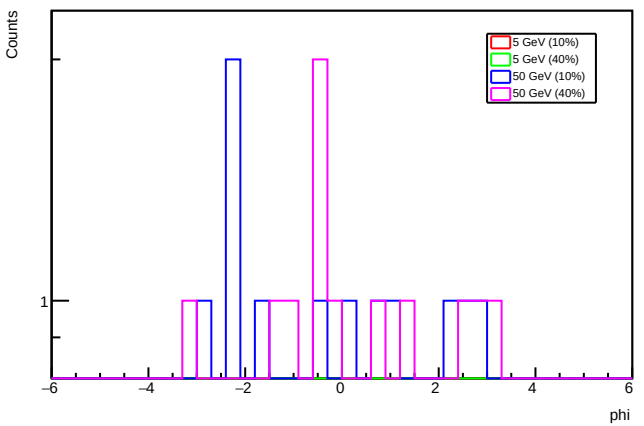
gen leading Met phi: MET > 120 GeV



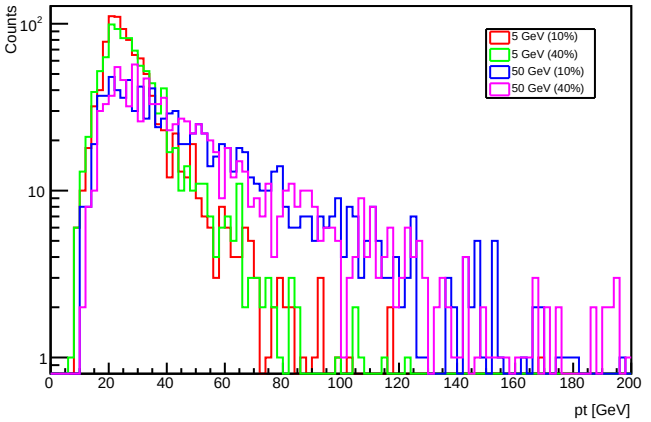
gen leading Met phi: j1pt >120, at most 2 jets w/ pt >30 GeV



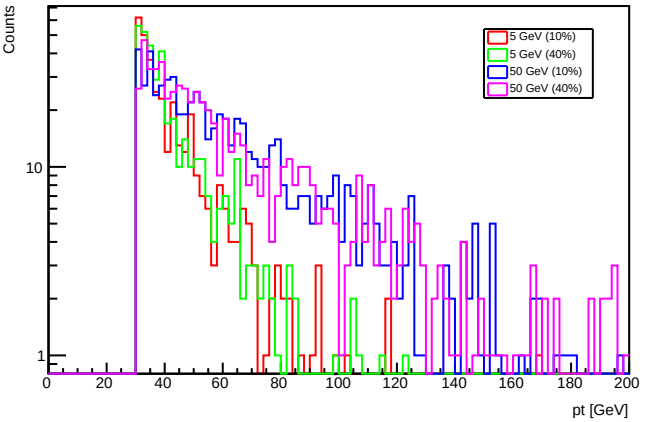
gen leading Met phi: at least 2 mu w/ pt > 2 GeV and eta<2.5



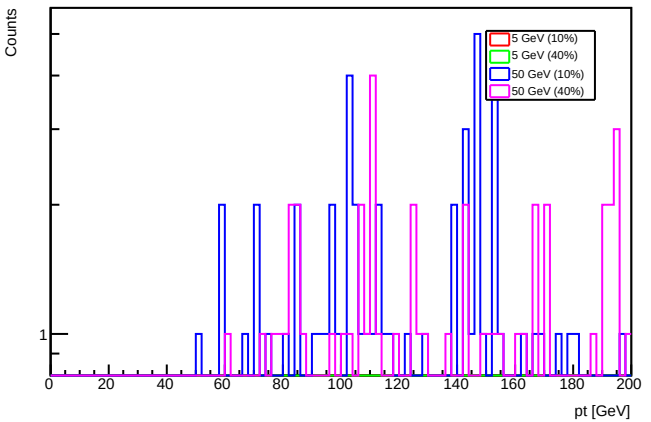
gen leading Jet pt: no cuts



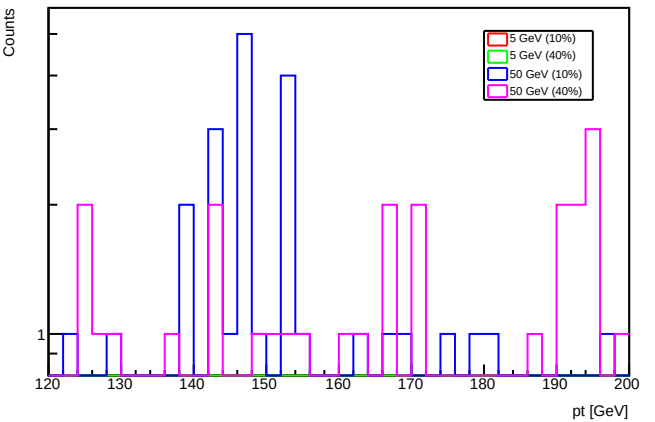
gen leading Jet pt: n_jet >=1, j1pt > 30 GeV



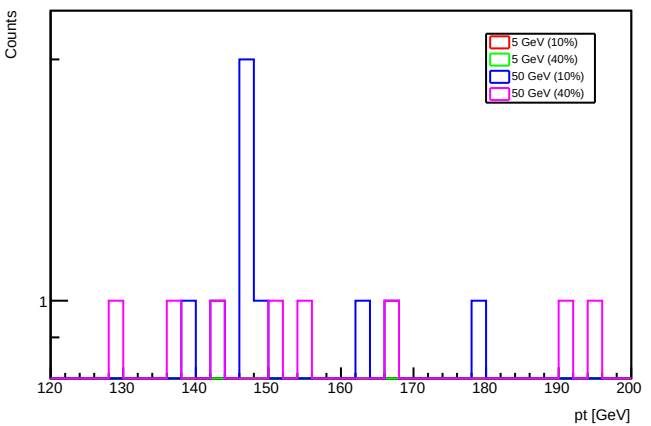
gen leading Jet pt: MET > 120 GeV



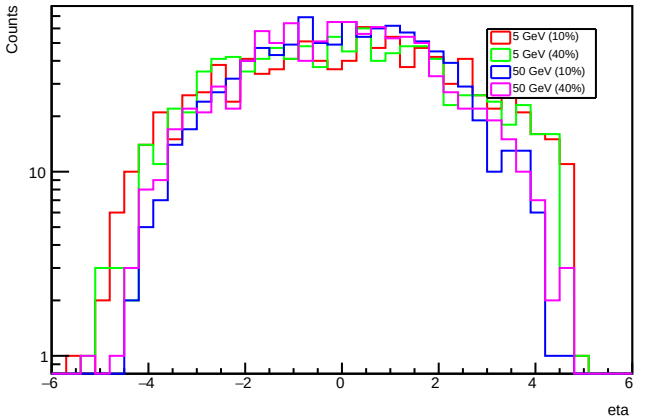
gen leading Jet pt: j1pt >120, at most 2 jets w/ pt >30 GeV



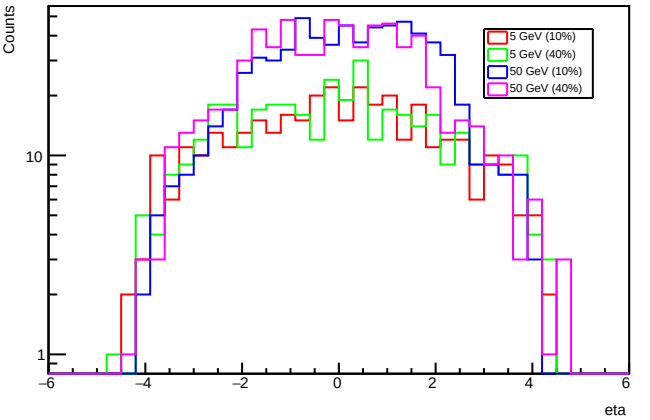
gen leading Jet pt: at least 2 mu w/ pt > 2 GeV and eta<2.5



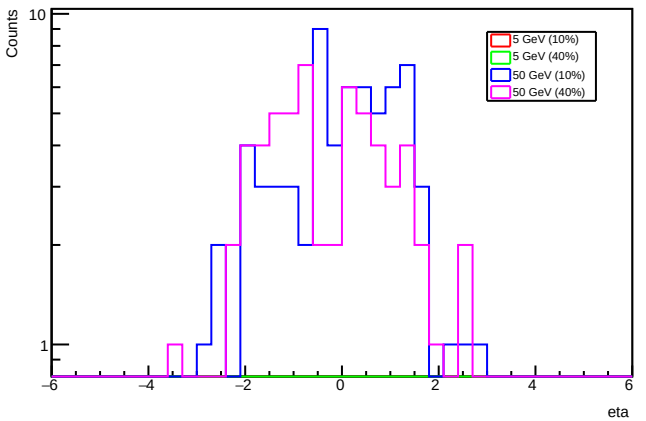
gen leading Jet eta: no cuts



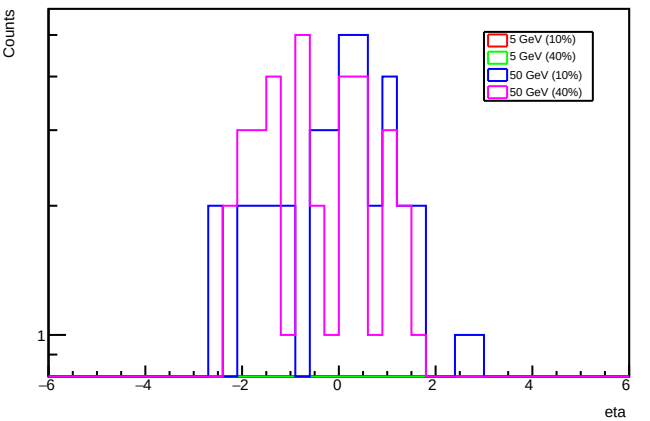
gen leading Jet eta: n_jet >=1, j1pt > 30 GeV



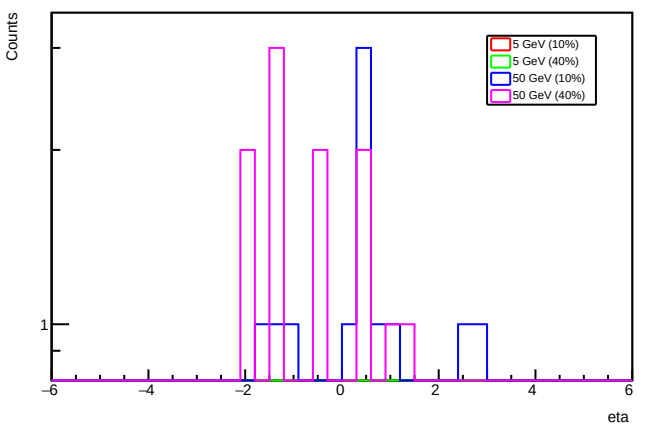
gen leading Jet eta: MET > 120 GeV



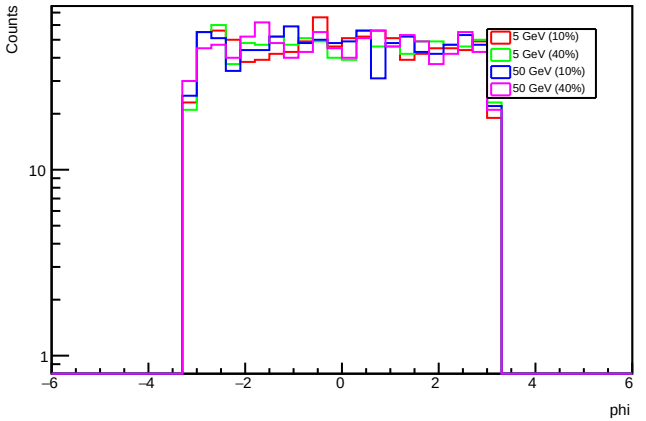
gen leading Jet eta: j1pt >120, at most 2 jets w/ pt >30 GeV



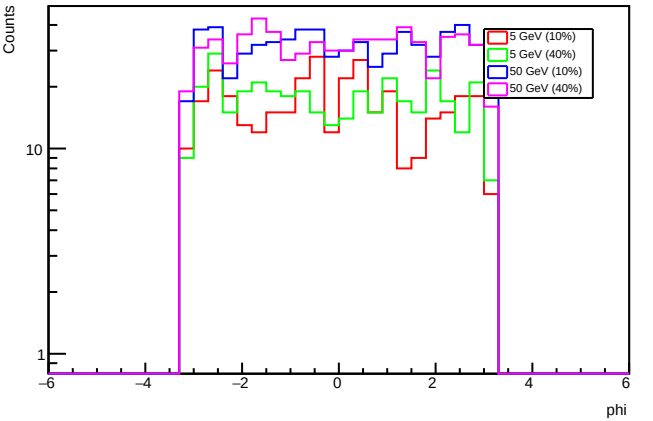
gen leading Jet eta: at least 2 mu w/ pt > 2 GeV and eta<2.5



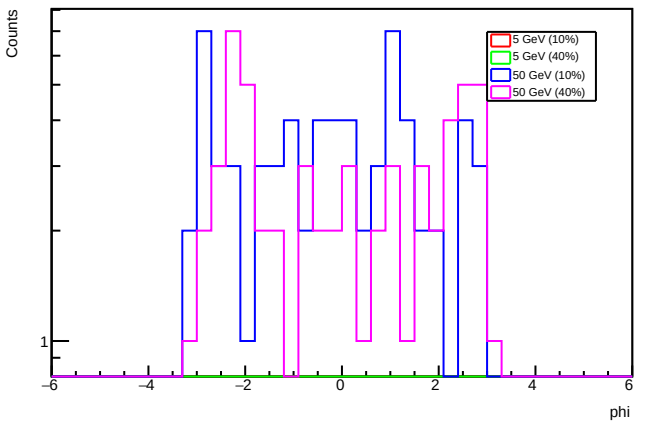
gen leading Jet phi: no cuts



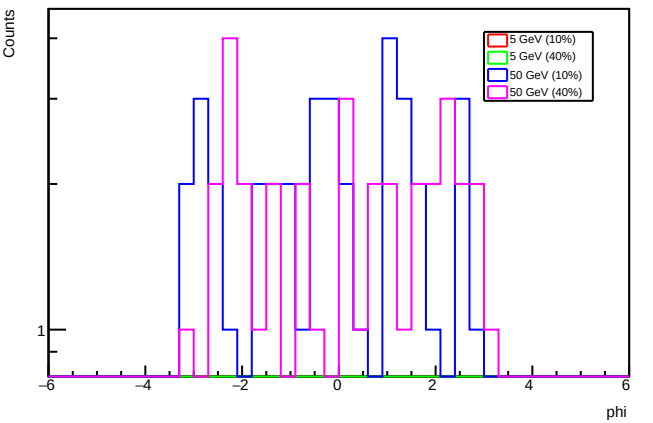
gen leading Jet phi: n_jet >=1, j1pt > 30 GeV



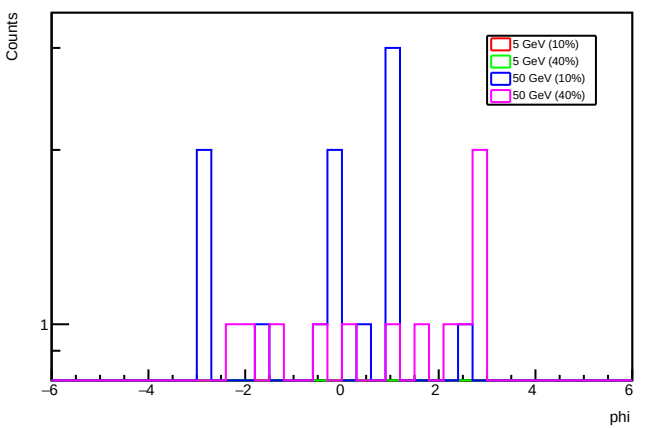
gen leading Jet phi: MET > 120 GeV



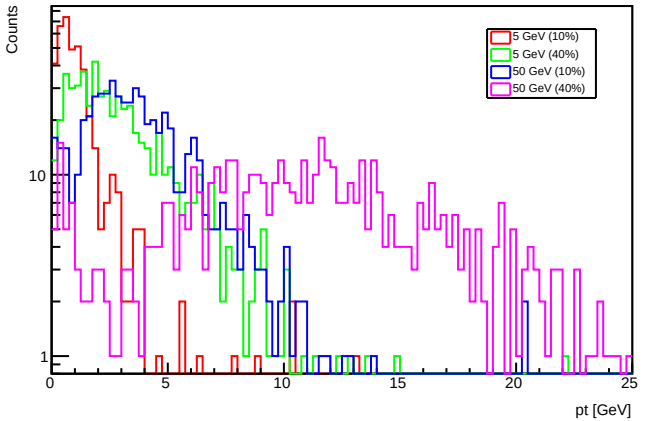
gen leading Jet phi: j1pt >120, at most 2 jets w/ pt >30 GeV



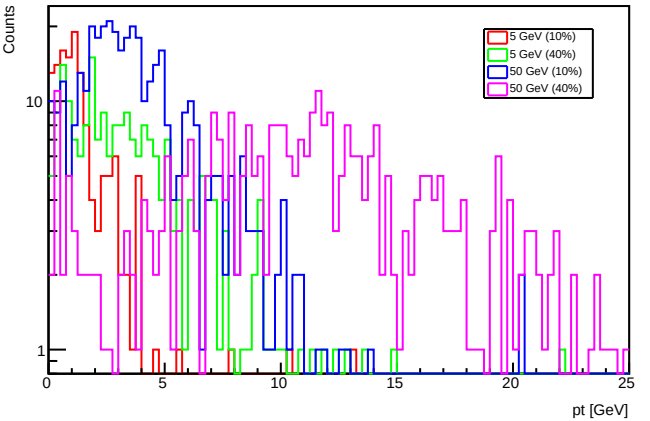
gen leading Jet phi: at least 2 mu w/ pt > 2 GeV and eta<2.5



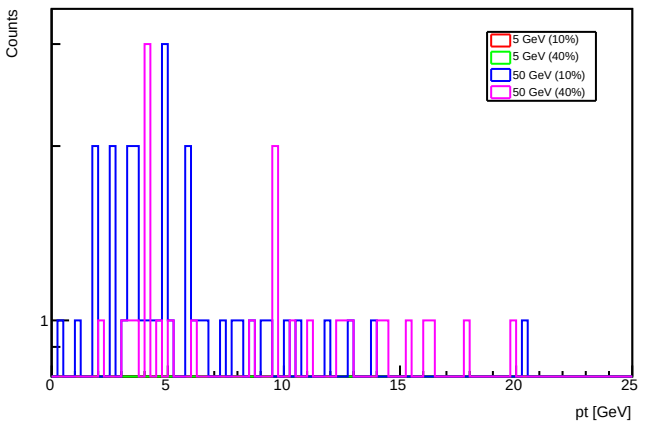
gen leading Mu pt: no cuts



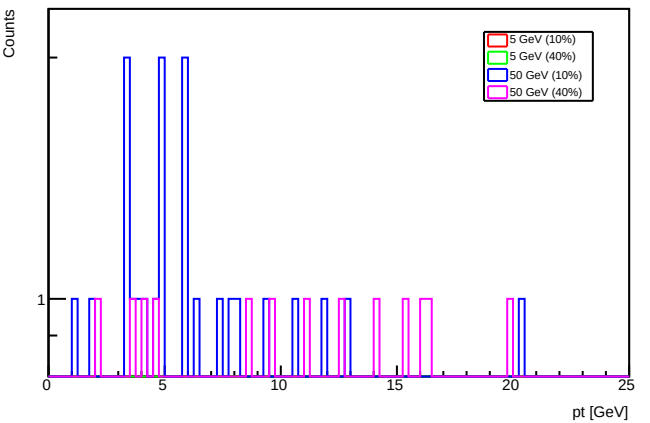
gen leading Mu pt: n_jet >=1, j1pt > 30 GeV



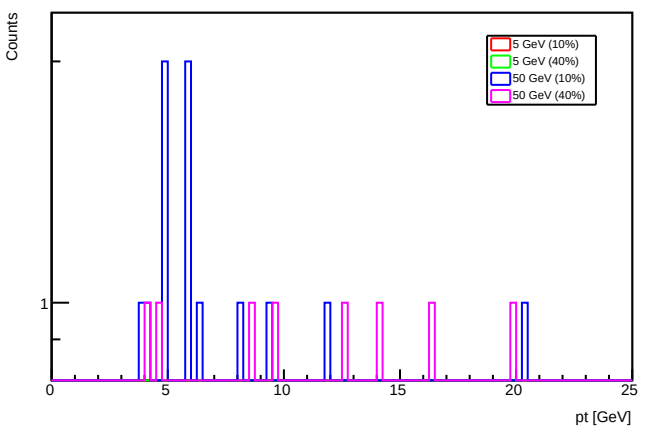
gen leading Mu pt: MET > 120 GeV



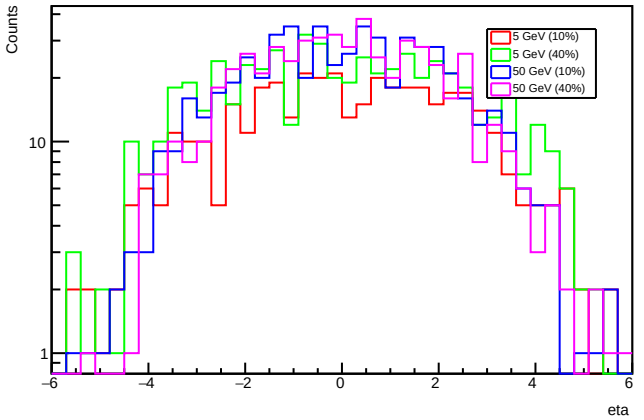
gen leading Mu pt: j1pt >120, at most 2 jets w/ pt >30 GeV



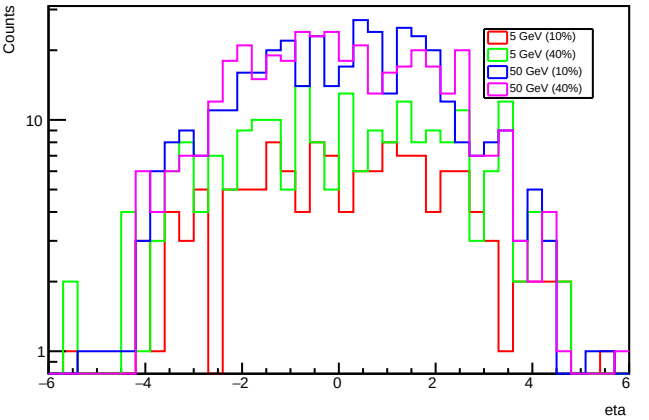
gen leading Mu pt: at least 2 mu w/ pt > 2 GeV and eta<2.5



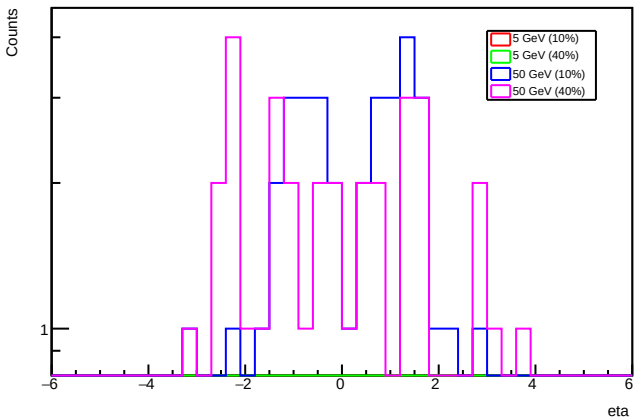
gen leading Mu eta: no cuts



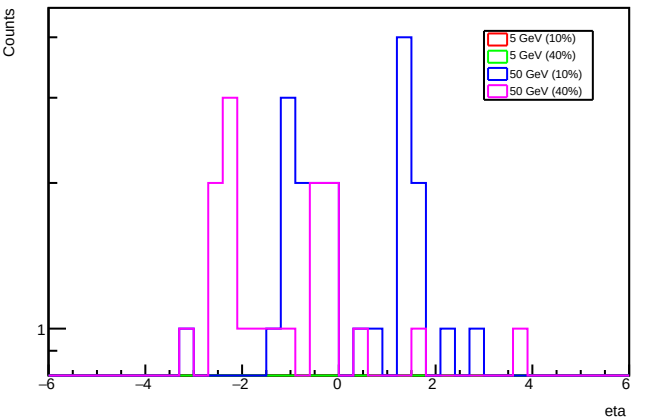
gen leading Mu eta: n_jet >=1, j1pt > 30 GeV



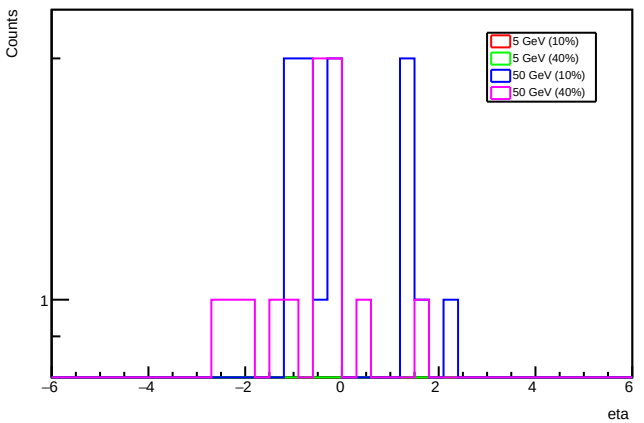
gen leading Mu eta: MET > 120 GeV



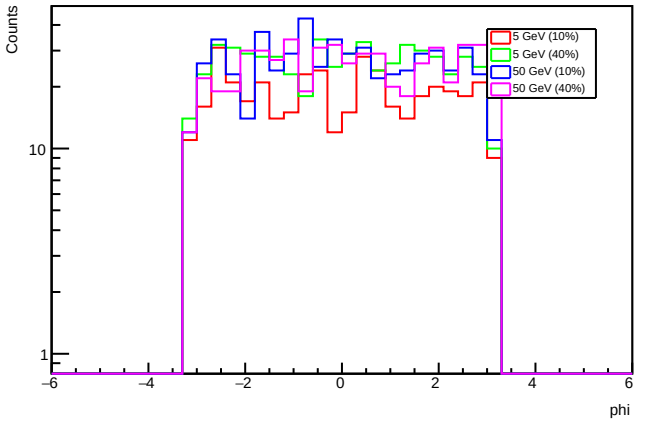
gen leading Mu eta: j1pt >120, at most 2 jets w/ pt >30 GeV



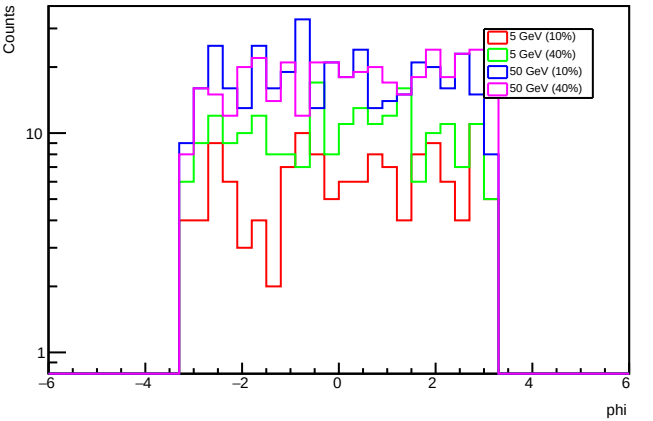
gen leading Mu eta: at least 2 mu w/ pt > 2 GeV and eta<2.5



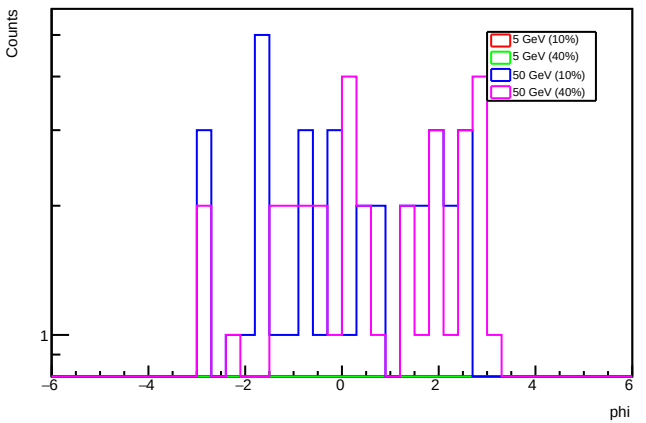
gen leading Mu phi: no cuts



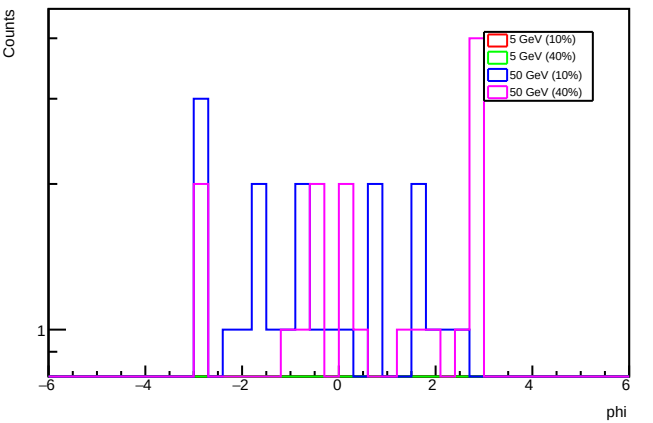
gen leading Mu phi: n_jet >=1, j1pt > 30 GeV



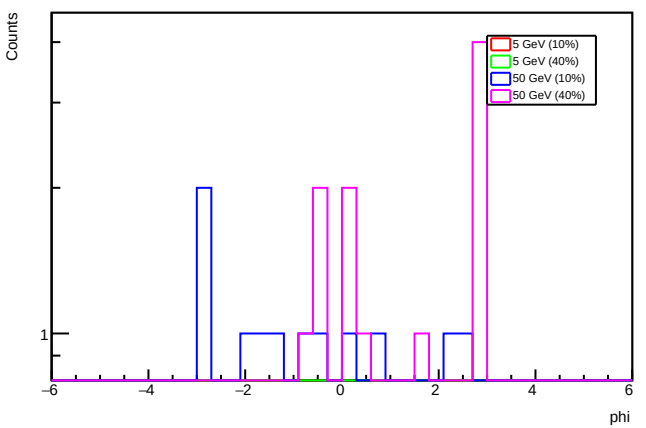
gen leading Mu phi: MET > 120 GeV



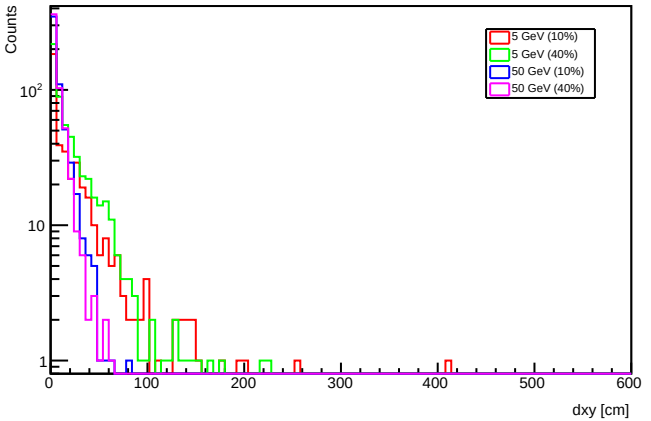
gen leading Mu phi: j1pt >120, at most 2 jets w/ pt >30 GeV



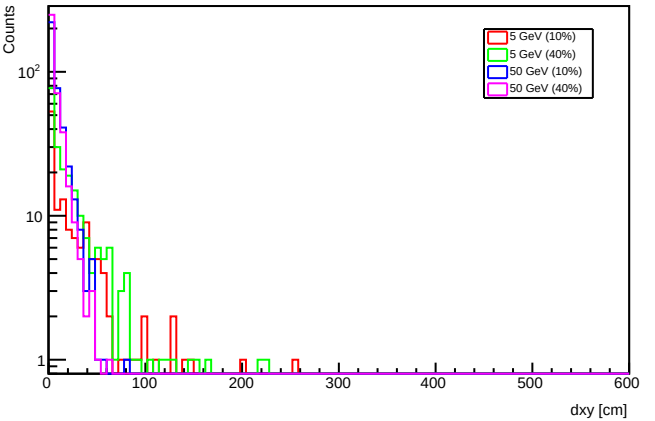
gen leading Mu phi: at least 2 mu w/ pt > 2 GeV and eta<2.5



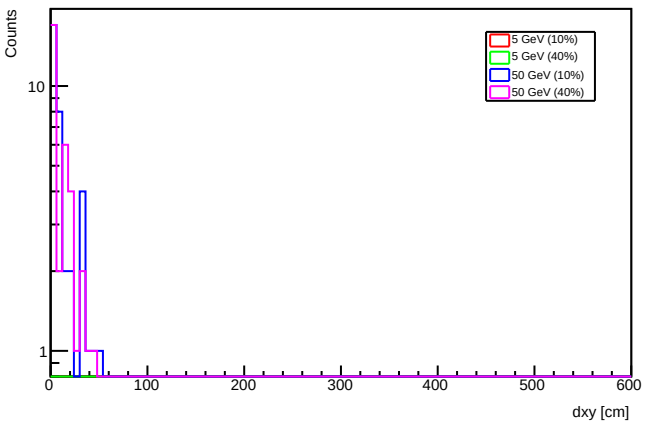
gen leading Mu vxy: no cuts



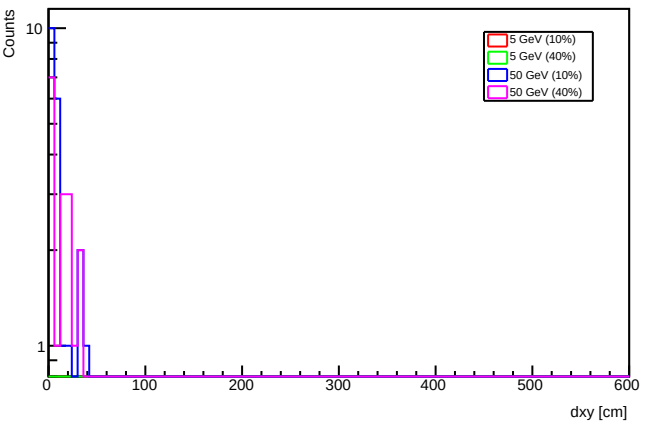
gen leading Mu vxy: n_jet >=1, j1pt > 30 GeV



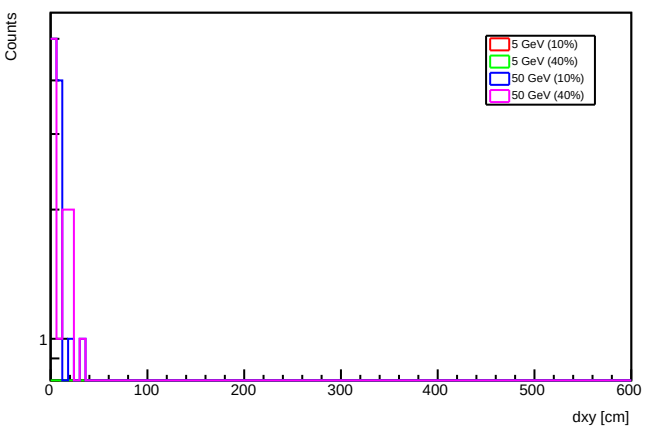
gen leading Mu vxy: MET > 120 GeV



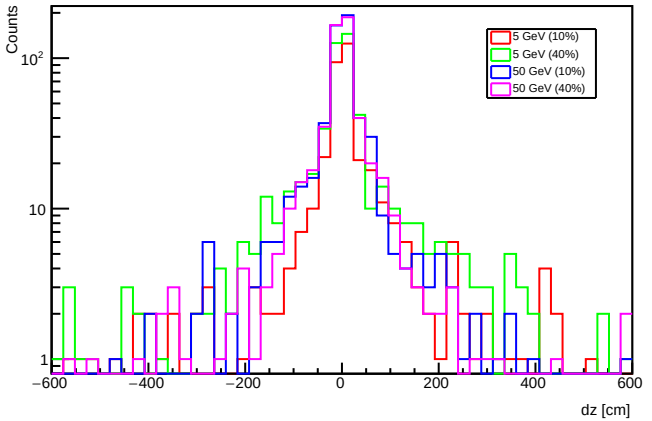
gen leading Mu vxy: j1pt >120, at most 2 jets w/ pt >30 GeV



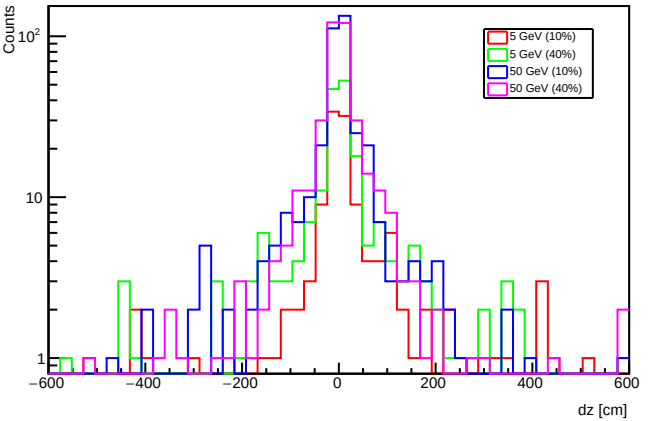
gen leading Mu vxy: at least 2 mu w/ pt > 2 GeV and eta<2.5



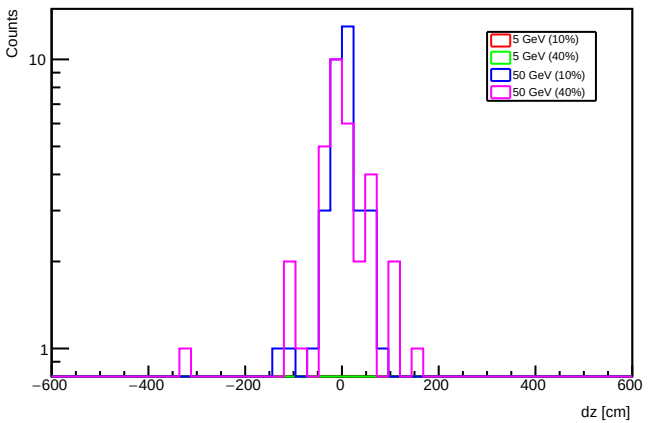
gen leading Mu vz: no cuts



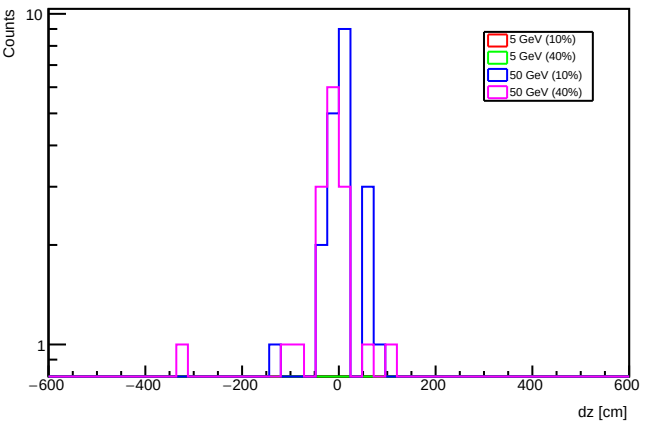
gen leading Mu vz: n_jet >=1, j1pt > 30 GeV



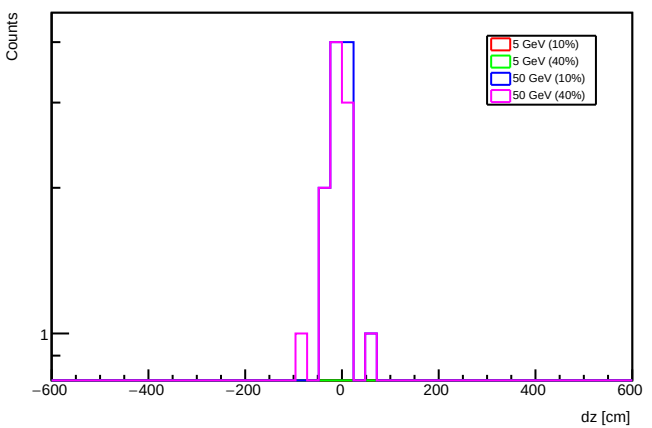
gen leading Mu vz: MET > 120 GeV



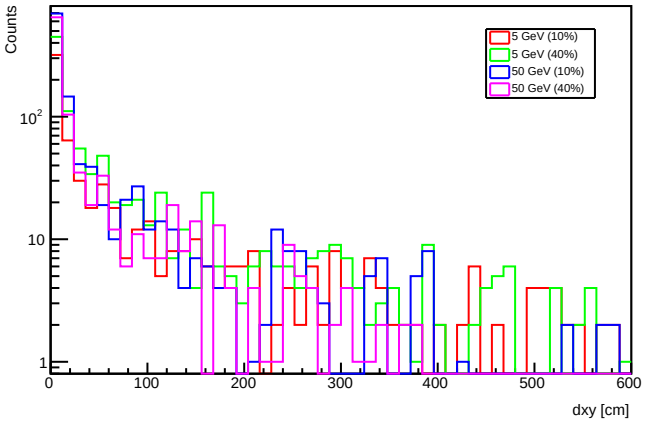
gen leading Mu vz: j1pt >120, at most 2 jets w/ pt >30 GeV



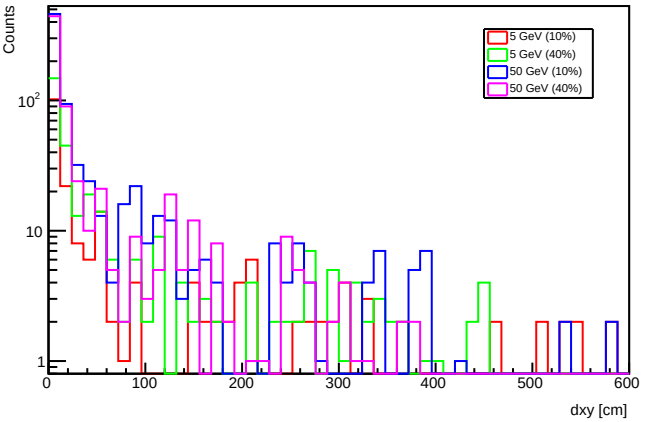
gen leading Mu vz: at least 2 mu w/ pt > 2 GeV and eta<2.5



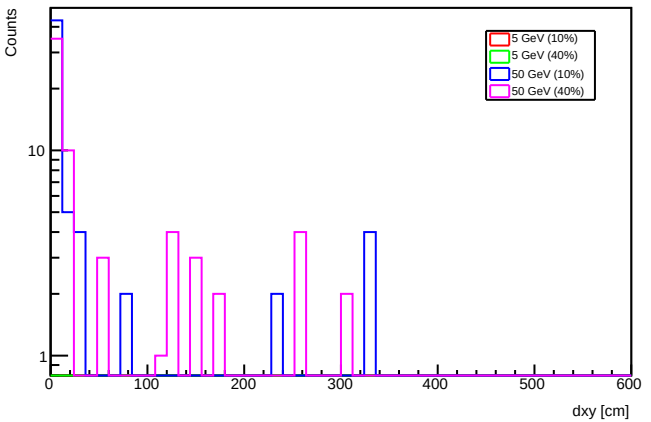
gen all Mu vxy: no cuts



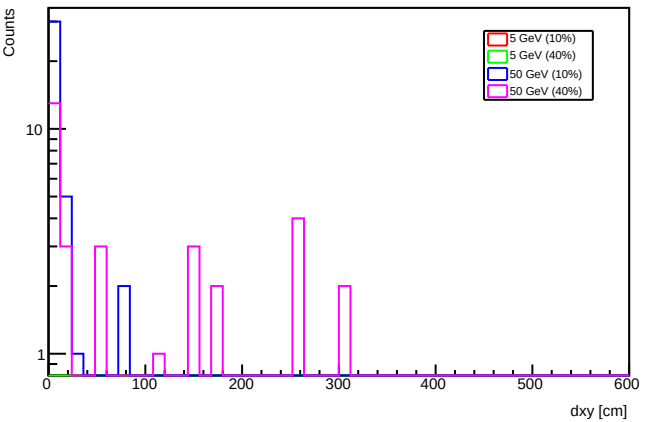
gen all Mu vxy: n_jet >=1, j1pt > 30 GeV



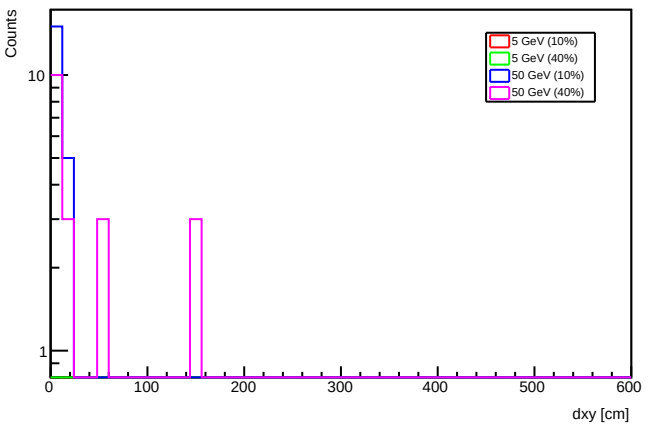
gen all Mu vxy: MET > 120 GeV



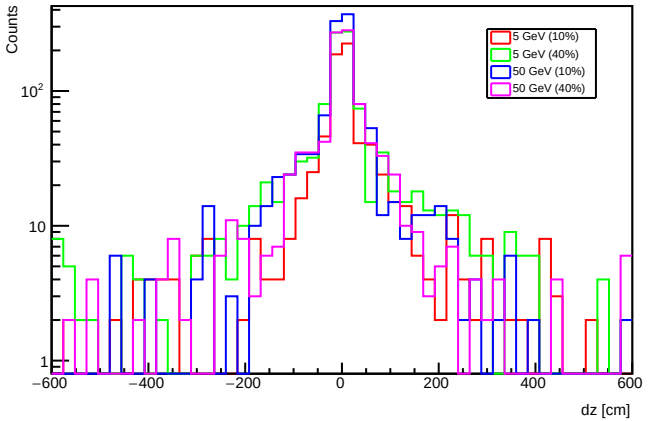
gen all Mu vxy: j1pt >120, at most 2 jets w/ pt >30 GeV



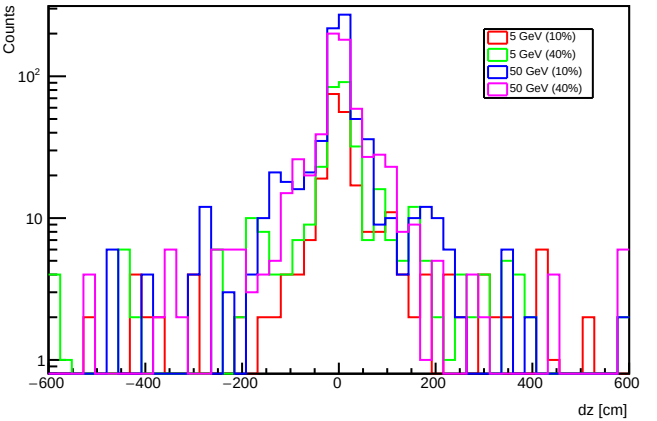
gen all Mu vxy: at least 2 mu w/ pt > 2 GeV and eta<2.5



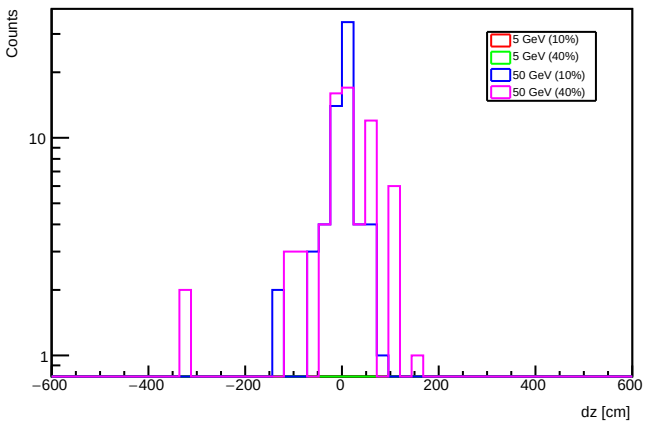
gen all Mu vz: no cuts



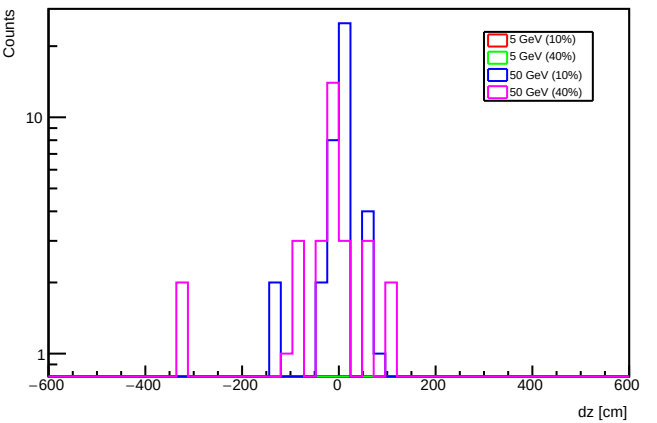
gen all Mu vz: n_jet >=1, j1pt > 30 GeV



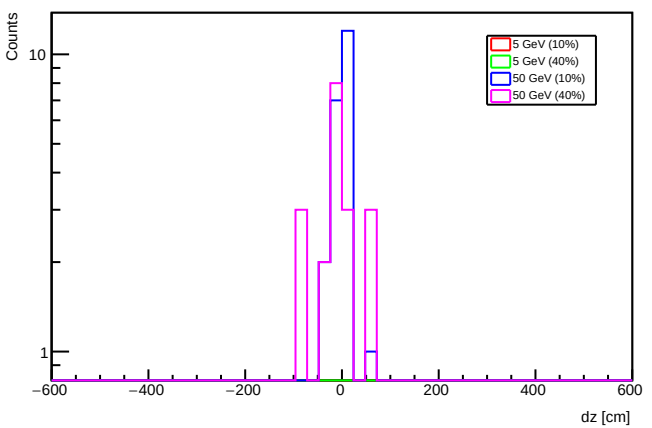
gen all Mu vz: MET > 120 GeV



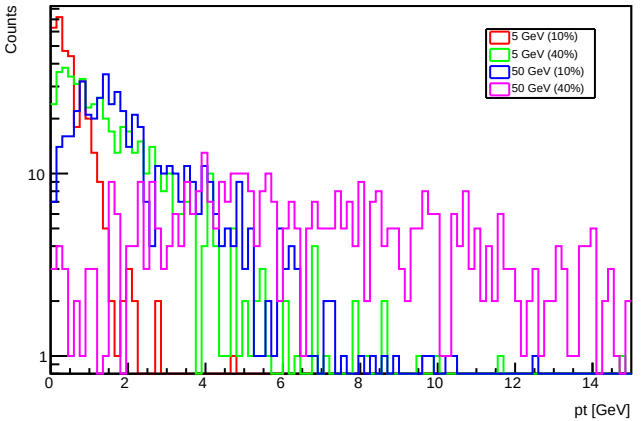
gen all Mu vz: j1pt >120, at most 2 jets w/ pt >30 GeV



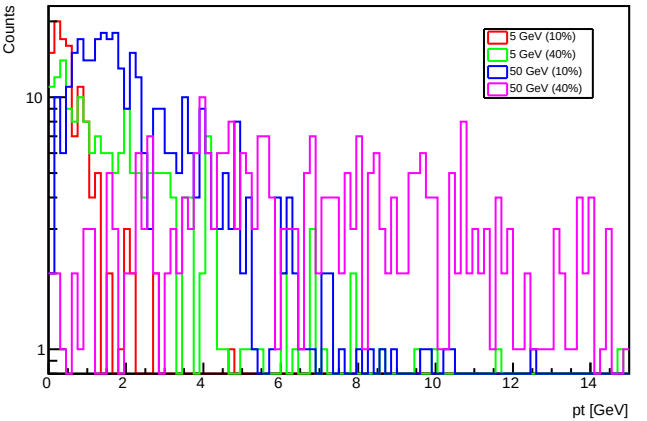
gen all Mu vz: at least 2 mu w/ pt > 2 GeV and eta<2.5



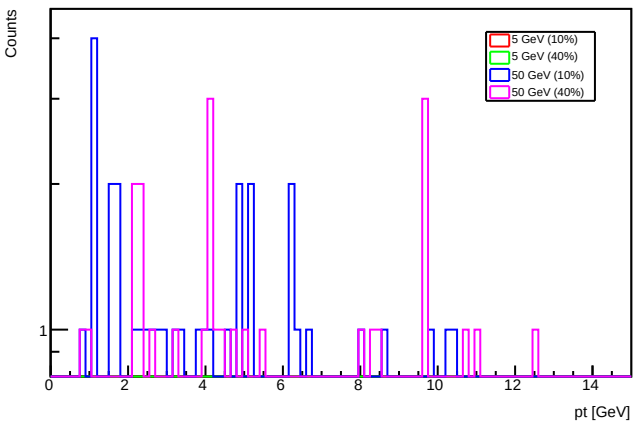
gen subleading Mu pt: no cuts



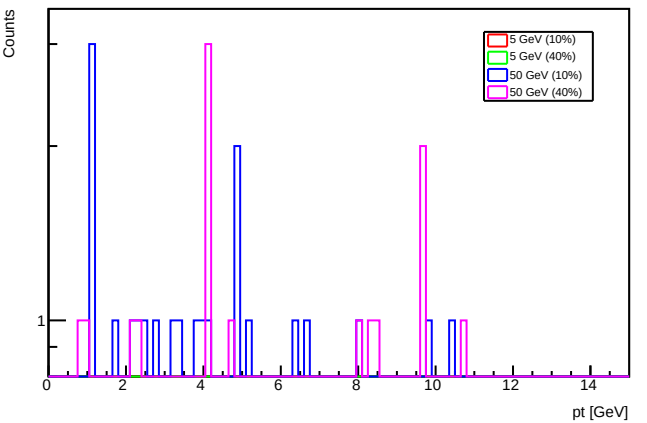
gen subleading Mu pt: n_jet >=1, j1pt > 30 GeV



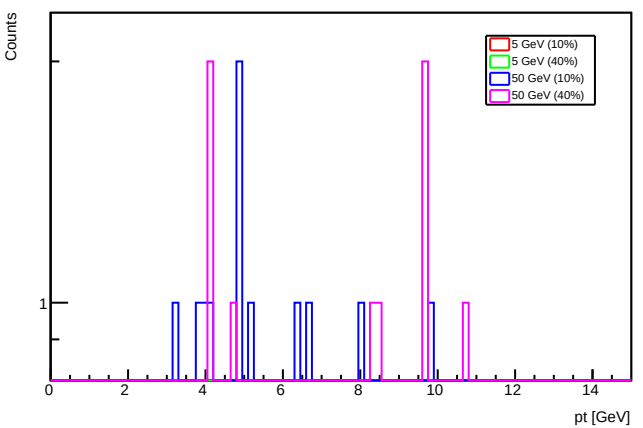
gen subleading Mu pt: MET > 120 GeV



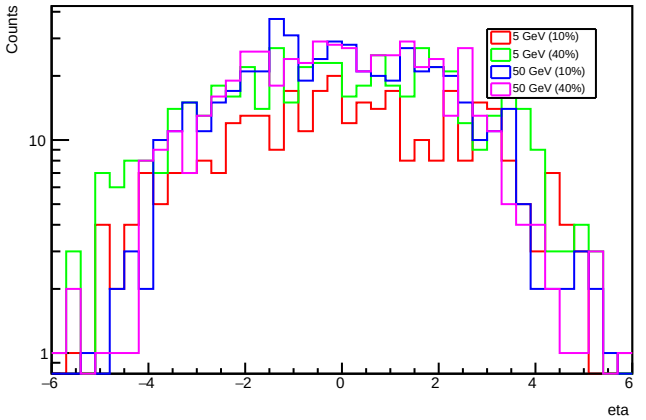
gen subleading Mu pt: j1pt >120, at most 2 jets w/ pt >30 GeV



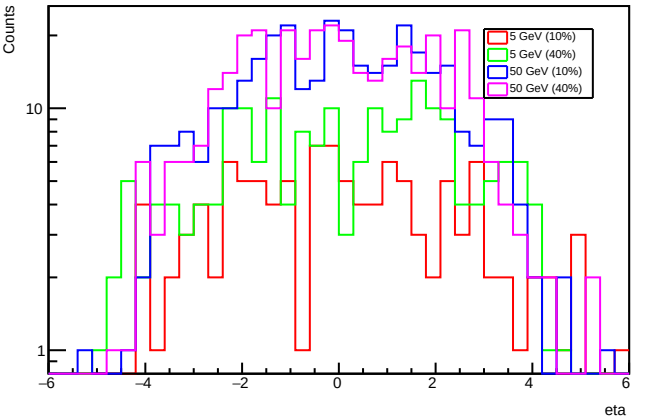
gen subleading Mu pt: at least 2 mu w/ pt > 2 GeV and eta<2.5



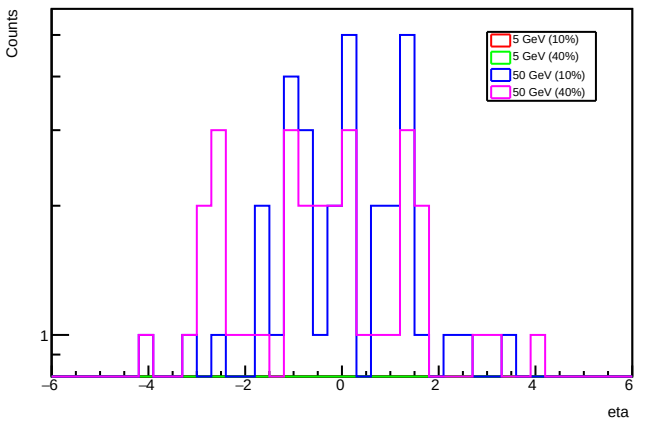
gen subleading Mu eta: no cuts



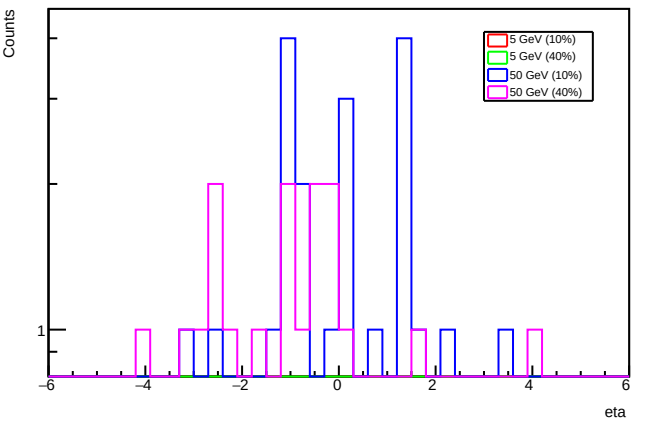
gen subleading Mu eta: n_jet >=1, j1pt > 30 GeV



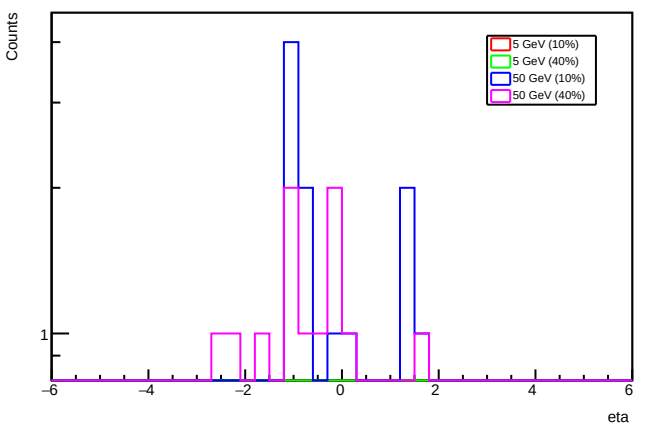
gen subleading Mu eta: MET > 120 GeV



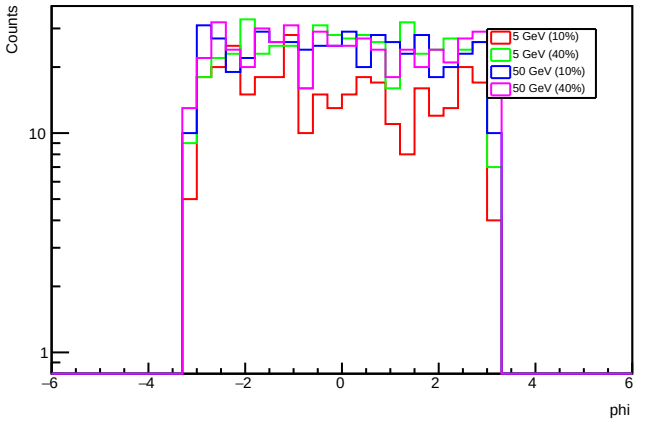
gen subleading Mu eta: j1pt >120, at most 2 jets w/ pt >30 GeV



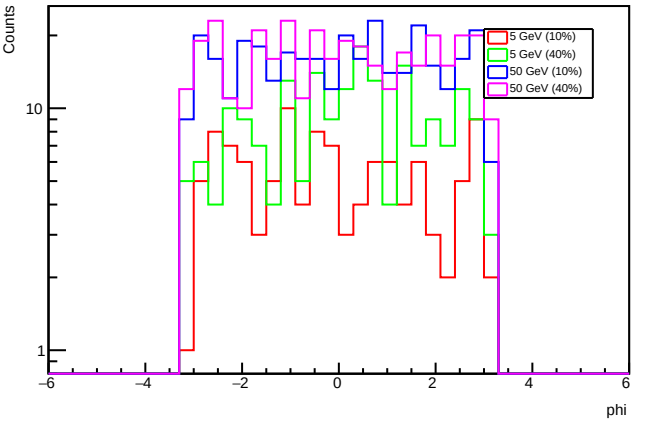
gen subleading Mu eta: at least 2 mu w/ pt > 2 GeV and eta<2.5



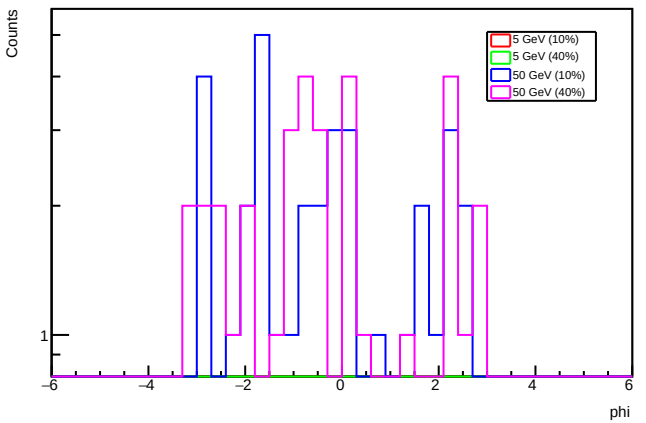
gen subleading Mu phi: no cuts



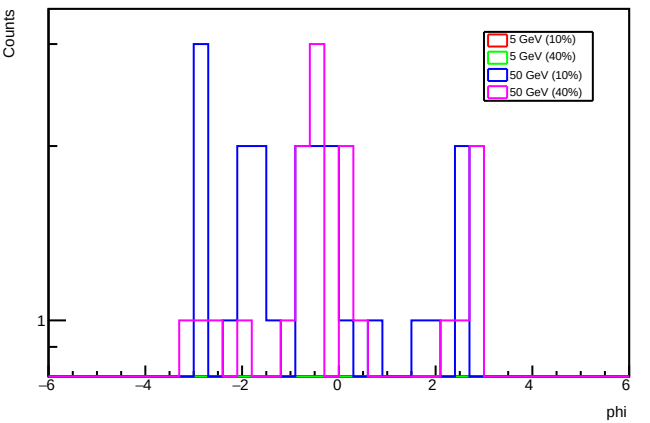
gen subleading Mu phi: n_jet >=1, j1pt > 30 GeV



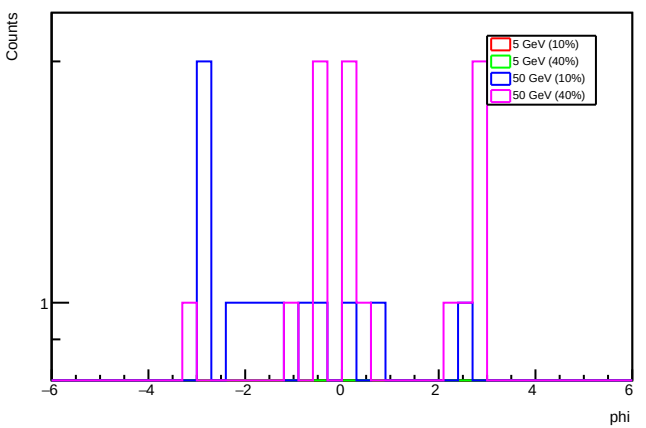
gen subleading Mu phi: MET > 120 GeV



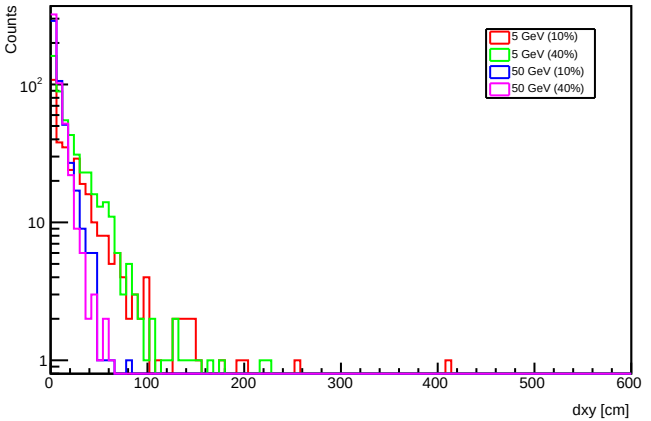
gen subleading Mu phi: j1pt >120, at most 2 jets w/ pt >30 GeV



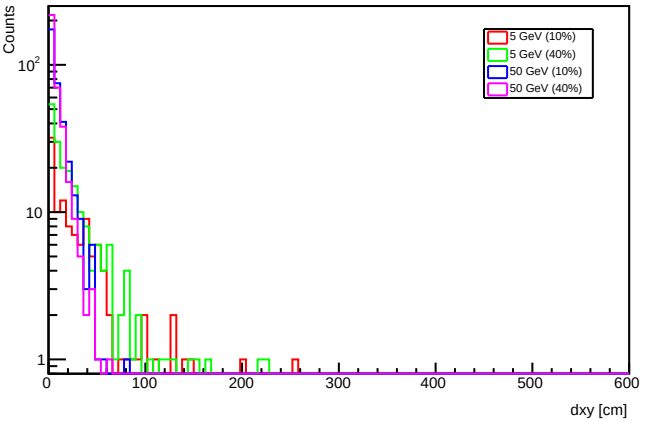
gen subleading Mu phi: at least 2 mu w/ pt > 2 GeV and eta<2.5



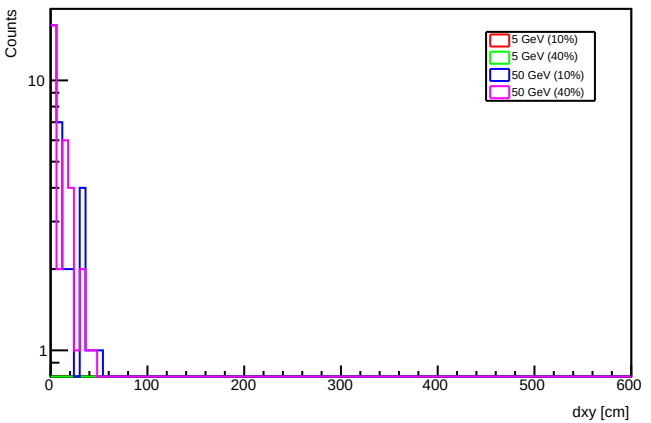
gen subleading Mu vxy: no cuts



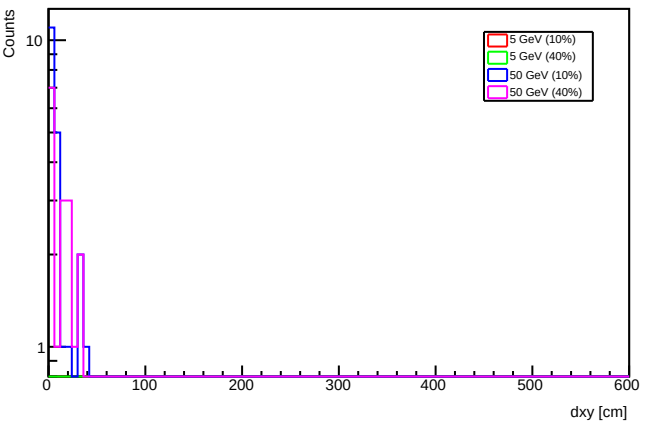
gen subleading Mu vxy: n_jet >=1, j1pt > 30 GeV



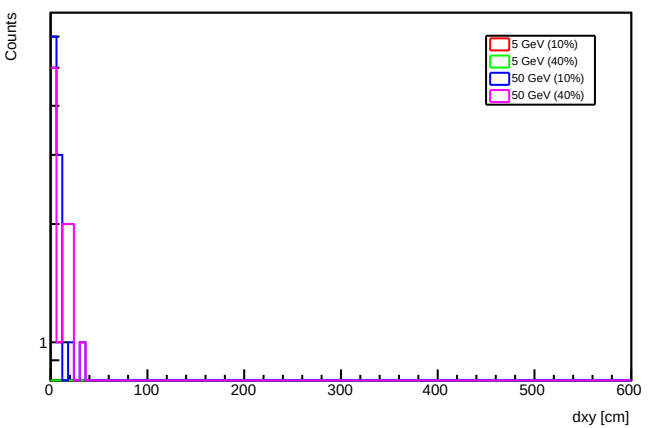
gen subleading Mu vxy: MET > 120 GeV



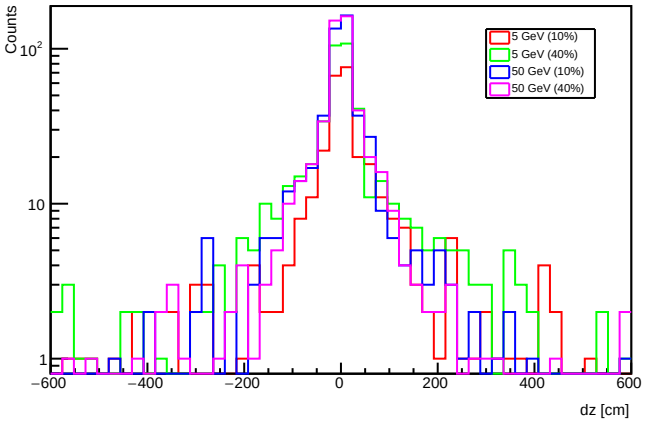
gen subleading Mu vxy: j1pt >120, at most 2 jets w/ pt >30 GeV



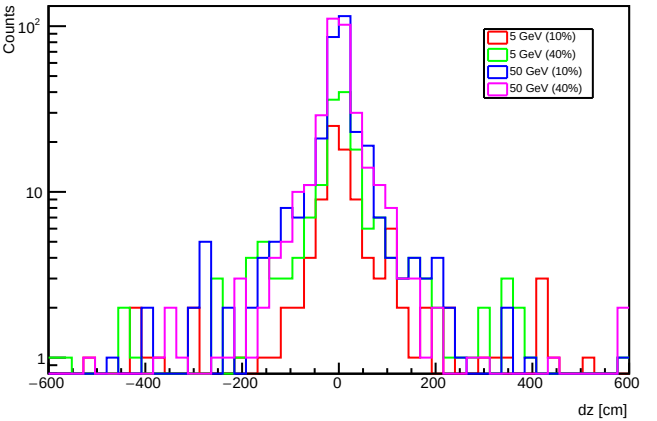
gen subleading Mu vxy: at least 2 mu w/ pt > 2 GeV and eta<2.5



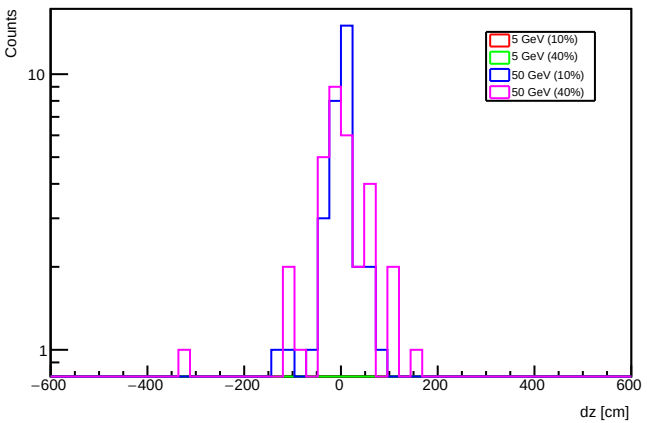
gen subleading Mu vz: no cuts



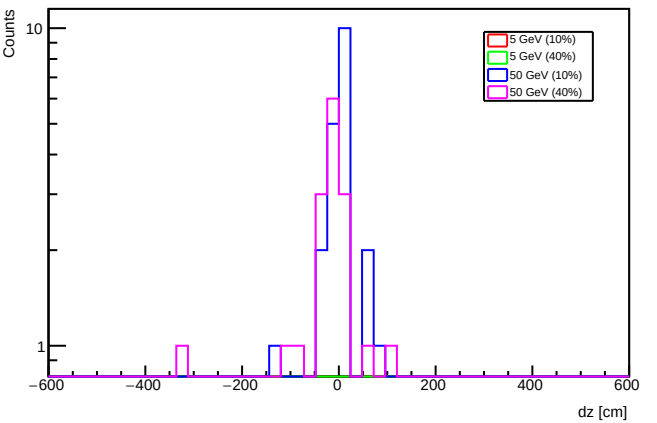
gen subleading Mu vz: n_jet >=1, j1pt > 30 GeV



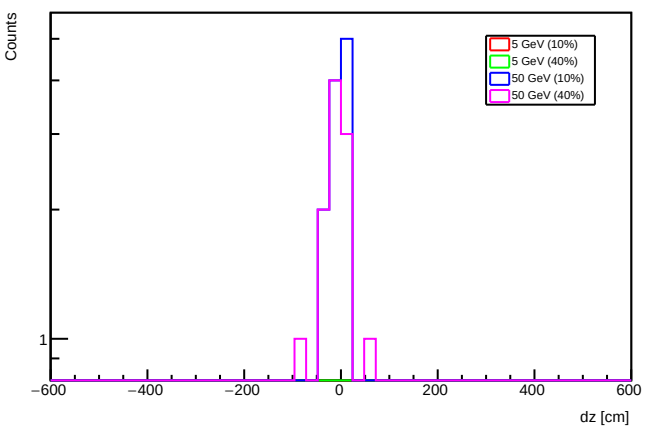
gen subleading Mu vz: MET > 120 GeV



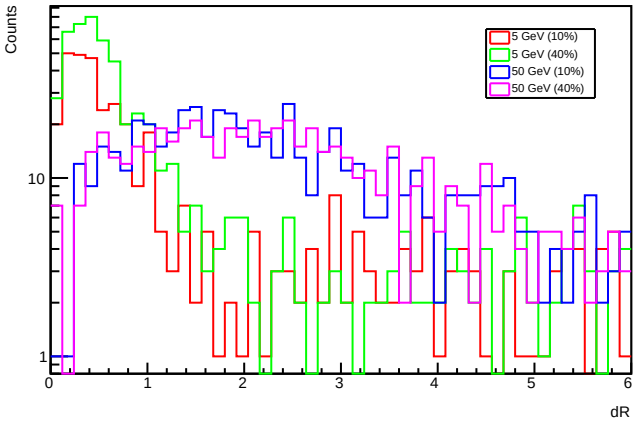
gen subleading Mu vz: j1pt >120, at most 2 jets w/ pt >30 GeV



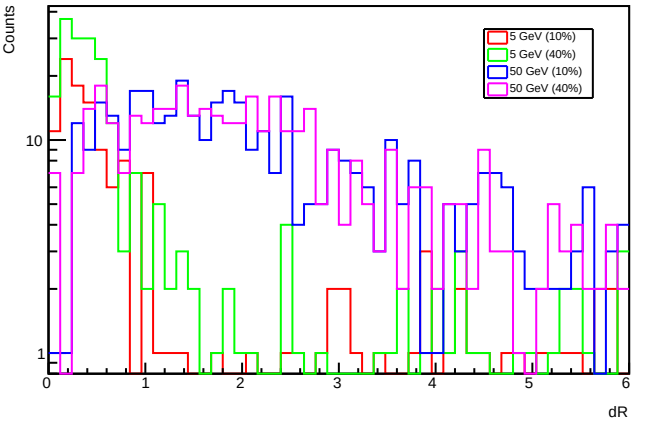
gen subleading Mu vz: at least 2 mu w/ pt > 2 GeV and eta<2.5



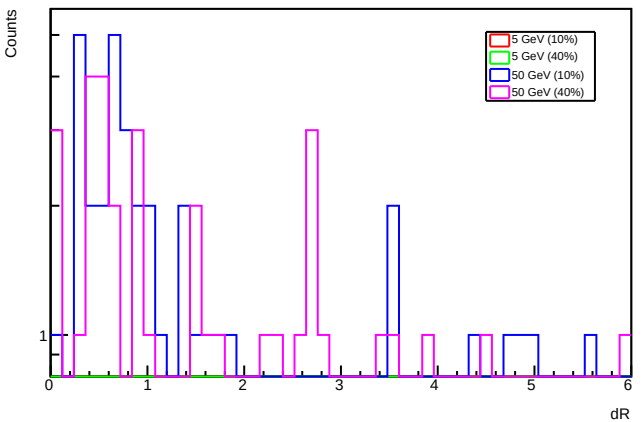
dR: gen leading mu and subleading mu: no cuts



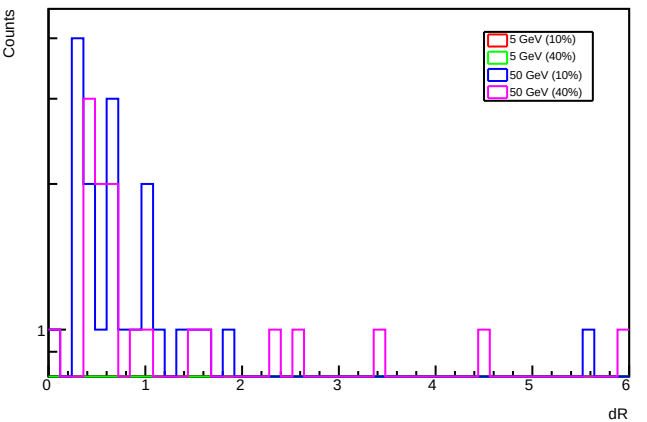
dR: gen leading mu and subleading mu: n_jet >=1, j1pt > 30 GeV



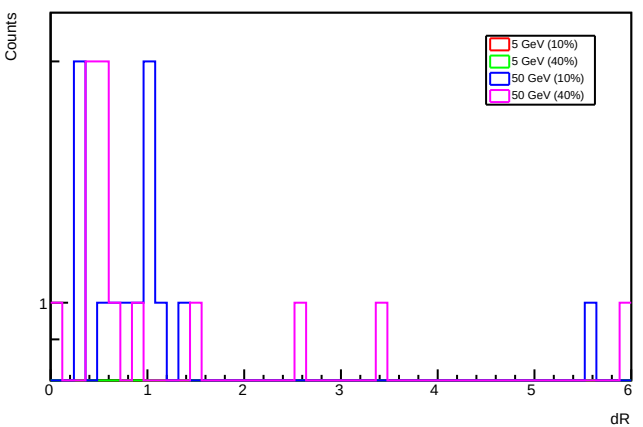
dR: gen leading mu and subleading mu: MET > 120 GeV



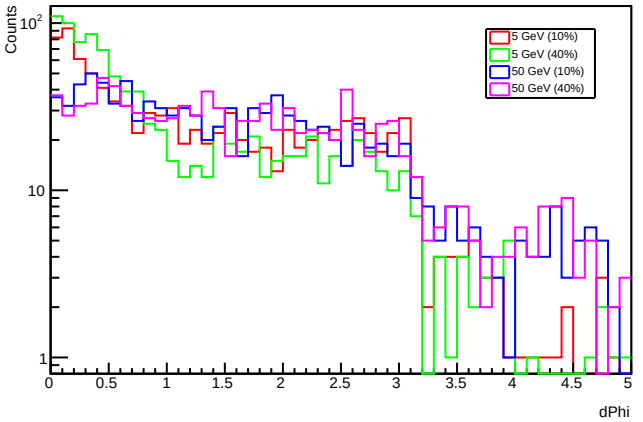
dR: gen leading mu and subleading mu: j1pt >120, at most 2 jets w/ pt >30 GeV



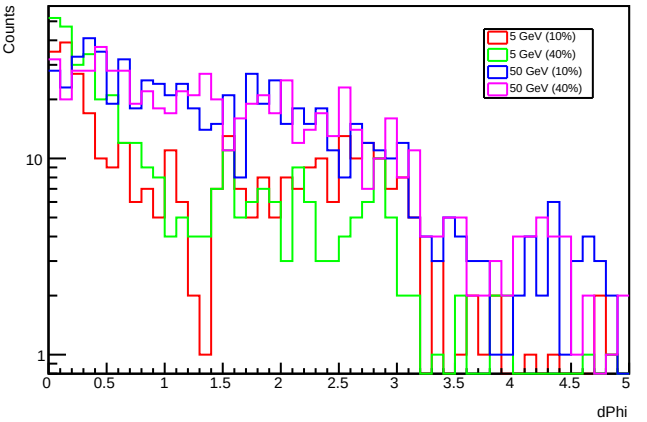
dR: gen leading mu and subleading mu: at least 2 mu w/ pt > 2 GeV and eta<2.5



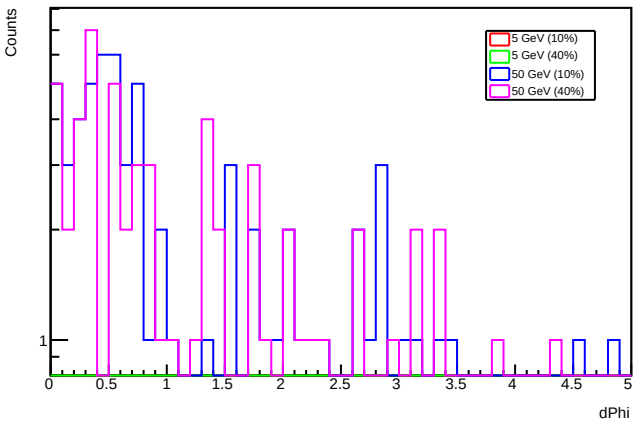
dPhi: gen MET and leading mu: no cuts



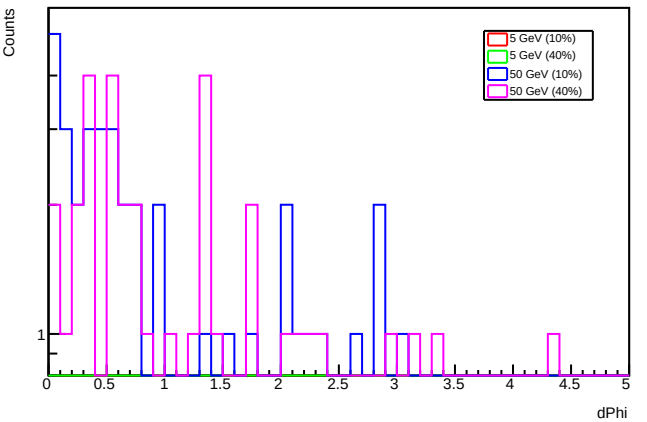
dPhi: gen MET and leading mu: n_jet >=1, j1pt > 30 GeV



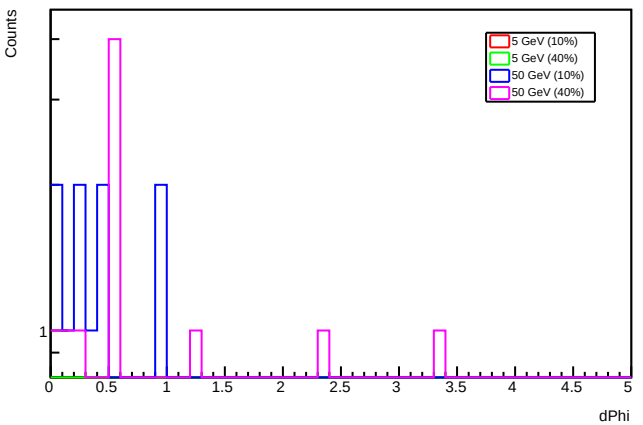
dPhi: gen MET and leading mu: MET > 120 GeV



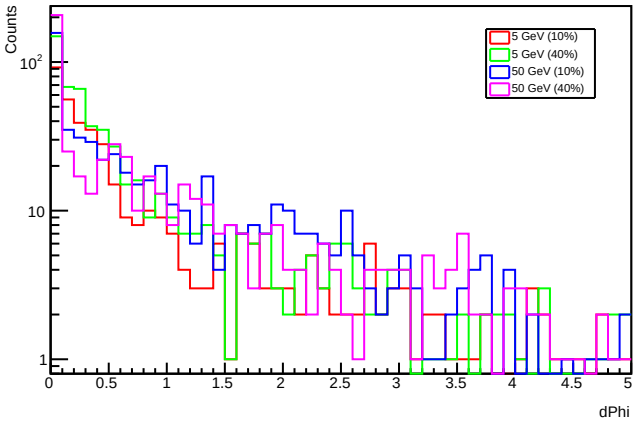
dPhi: gen MET and leading mu: j1pt >120, at most 2 jets w/ pt >30 GeV



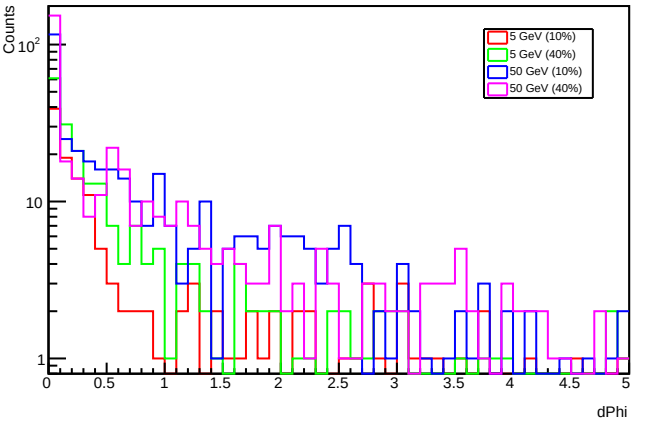
dPhi: gen MET and leading mu: at least 2 mu w/ pt > 2 GeV and eta<2.5



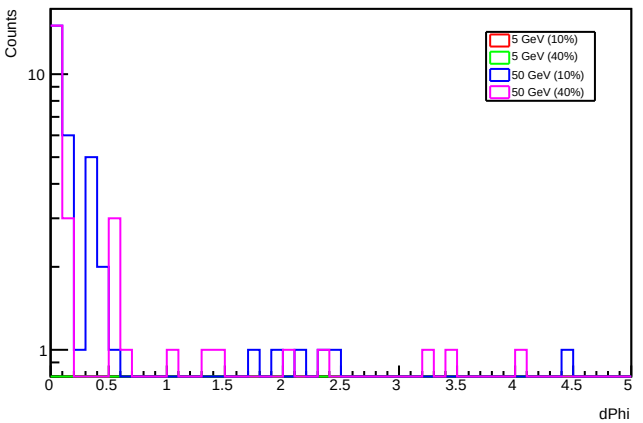
dPhi: gen leading mu and subleading mu: no cuts



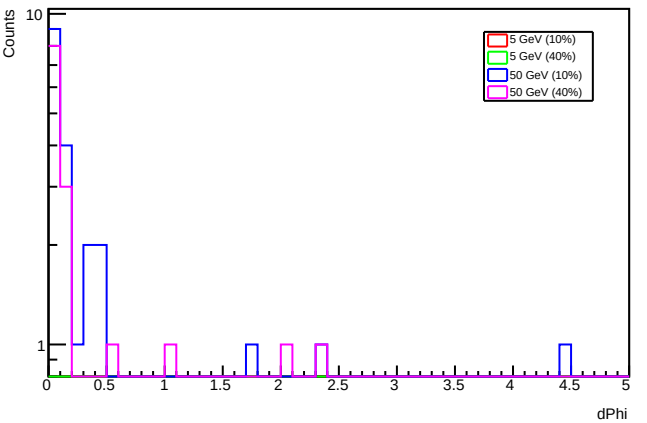
dPhi: gen leading mu and subleading mu: n_jet >=1, j1pt > 30 GeV



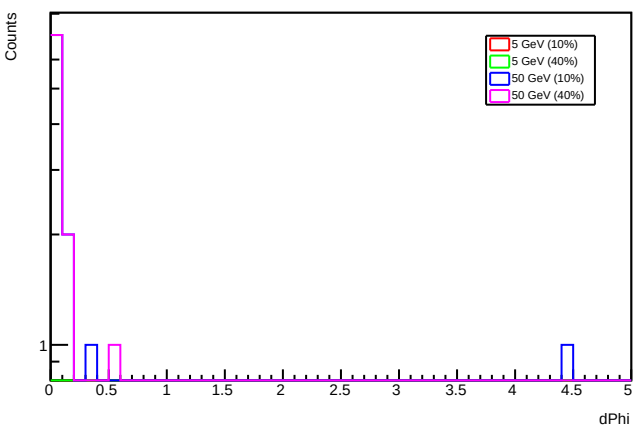
dPhi: gen leading mu and subleading mu: MET > 120 GeV



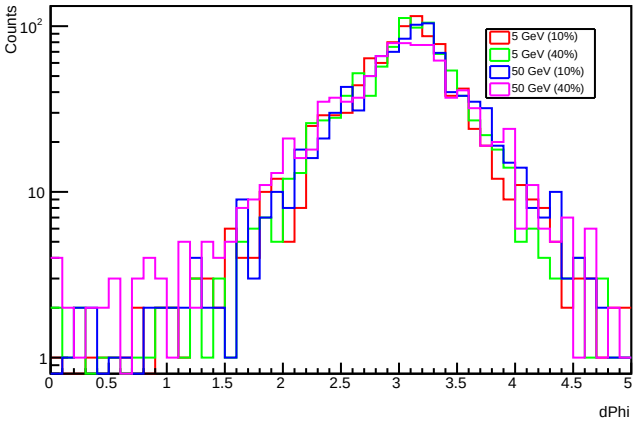
dPhi: gen leading mu and subleading mu: j1pt >120, at most 2 jets w/ pt >30 GeV



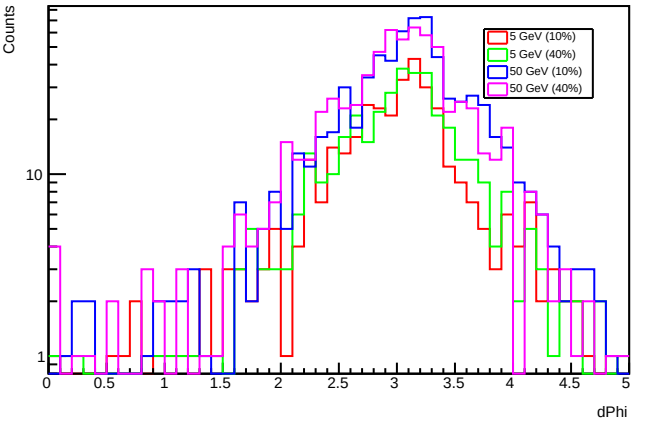
dPhi: gen leading mu and subleading mu: at least 2 mu w/ pt > 2 GeV and eta<2.5



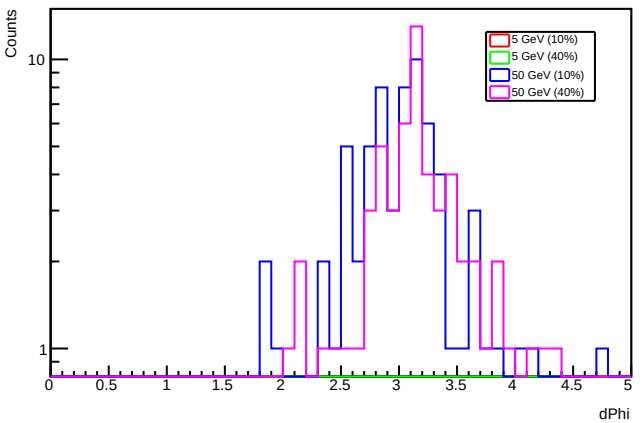
dPhi: gen MET and leading jet: no cuts



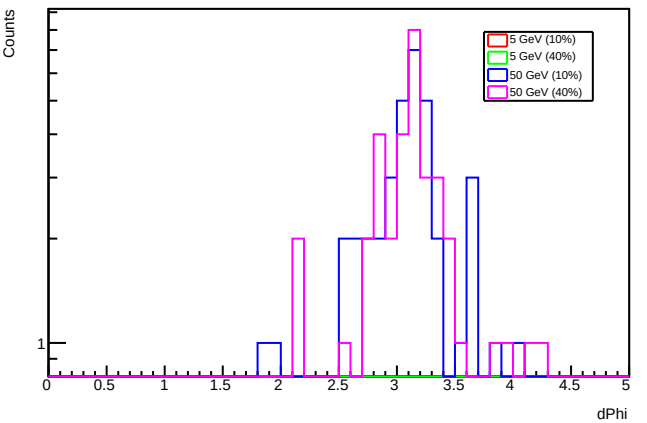
dPhi: gen MET and leading jet: n_jet >=1, j1pt > 30 GeV



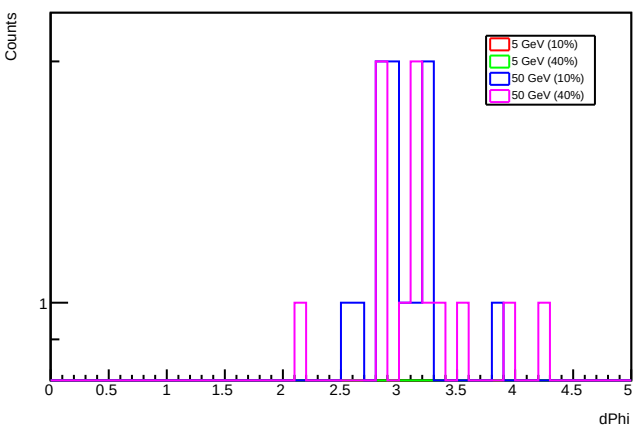
dPhi: gen MET and leading jet: MET > 120 GeV



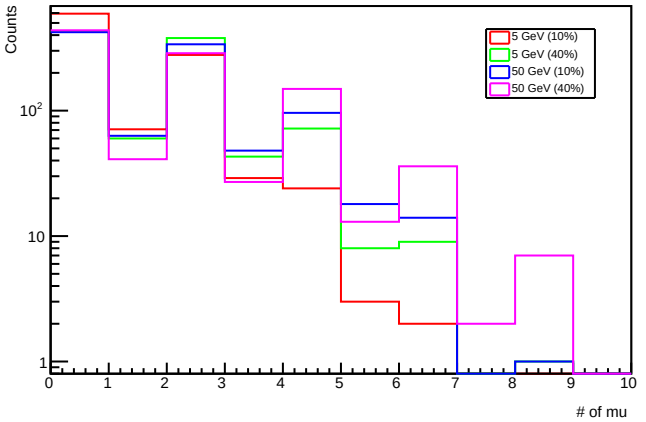
dPhi: gen MET and leading jet: j1pt >120, at most 2 jets w/ pt >30 GeV



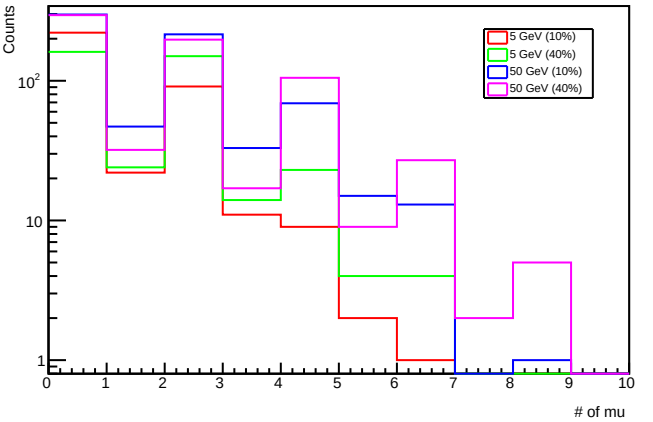
dPhi: gen MET and leading jet: at least 2 mu w/ pt > 2 GeV and eta<2.5



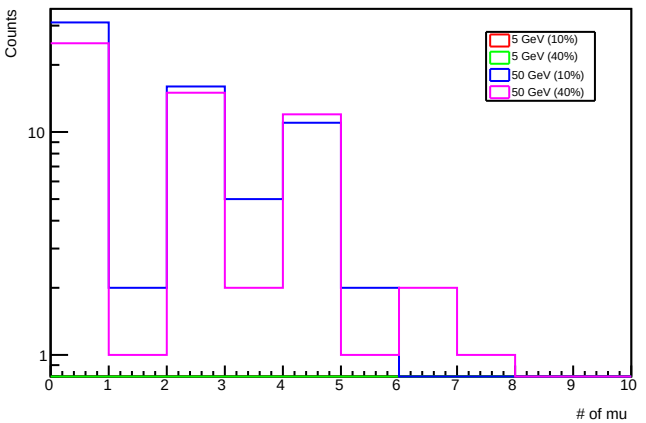
gen number of mu: no cuts



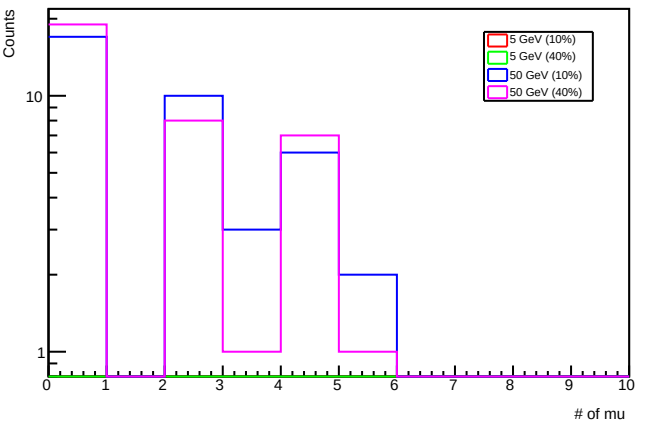
gen number of mu: n_jet >=1, j1pt > 30 GeV



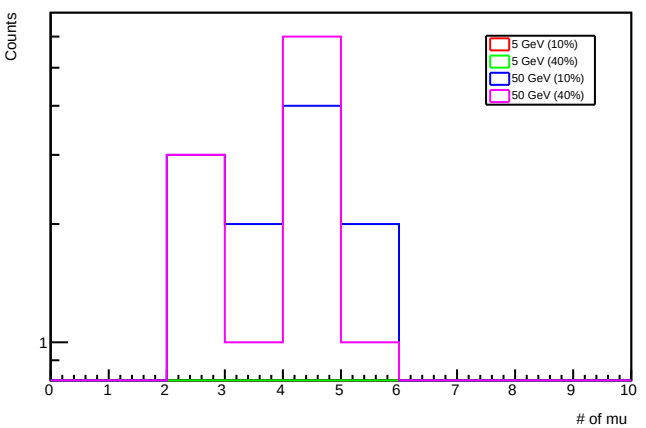
gen number of mu: MET > 120 GeV



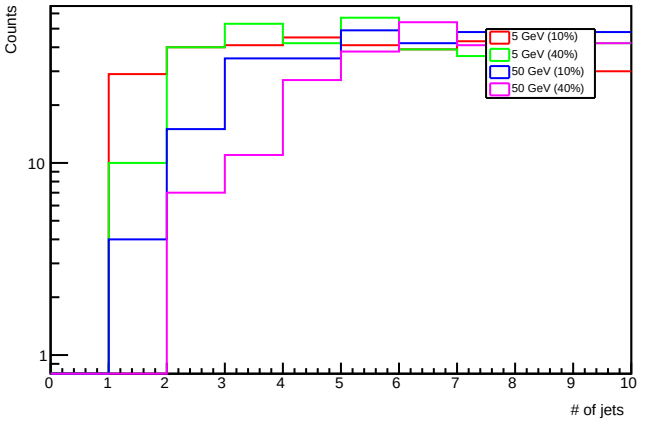
gen number of mu: j1pt >120, at most 2 jets w/ pt >30 GeV



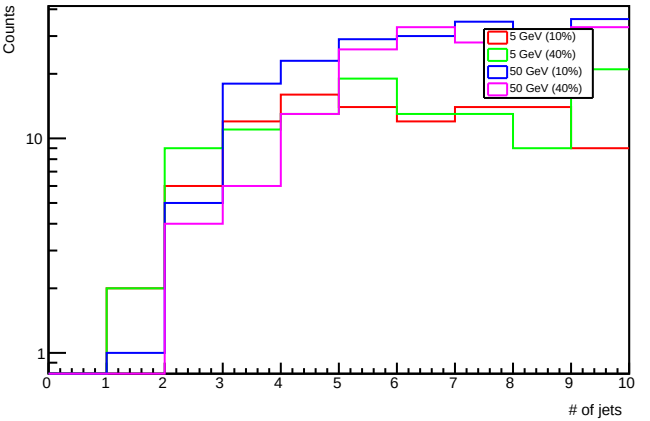
gen number of mu: at least 2 mu w/ pt > 2 GeV and eta<2.5



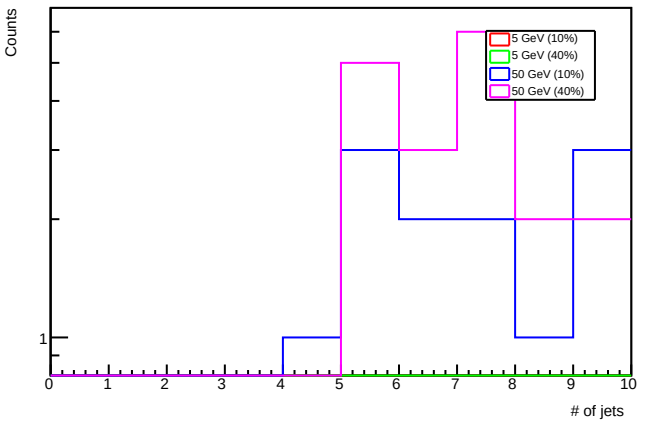
gen number of jets: no cuts



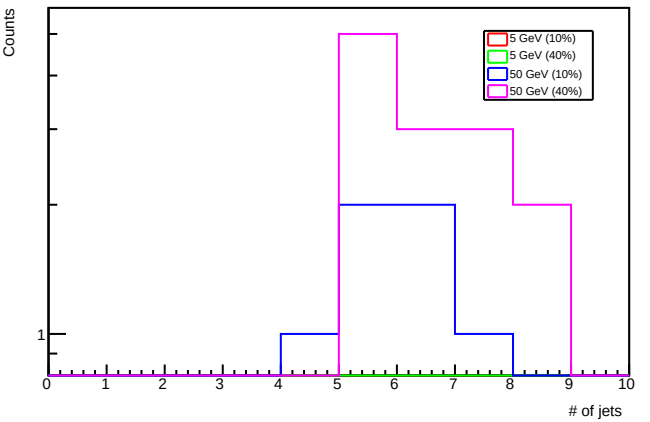
gen number of jets: n_jet >=1, j1pt > 30 GeV



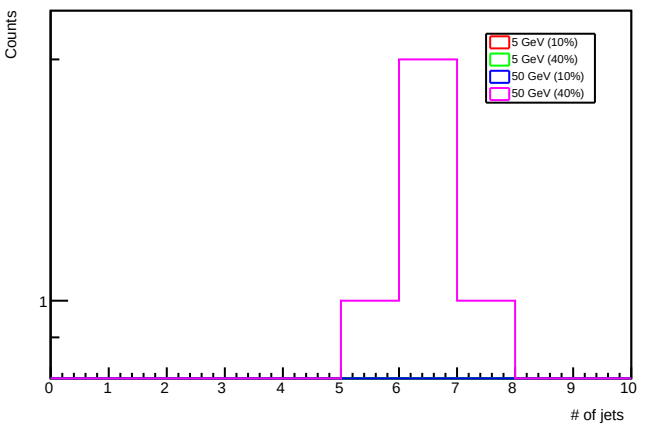
gen number of jets: MET > 120 GeV



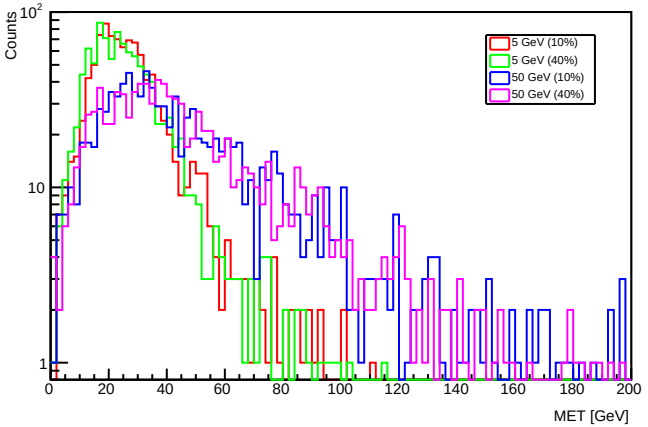
gen number of jets: j1pt >120, at most 2 jets w/ pt >30 GeV



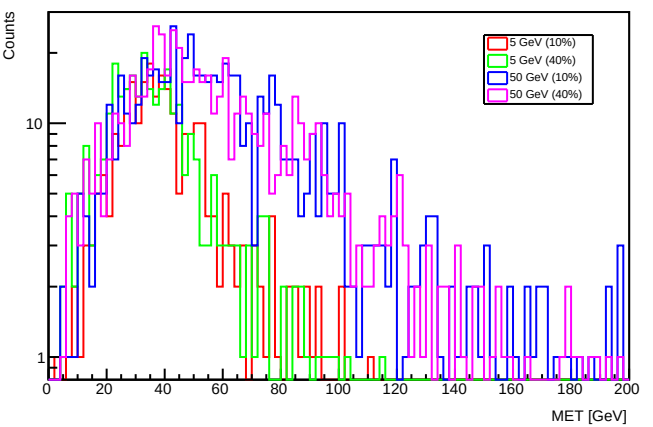
gen number of jets: at least 2 mu w/ pt > 2 GeV and eta<2.5



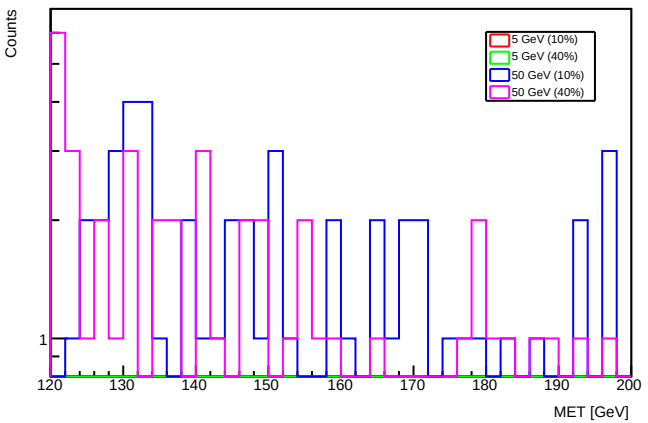
reco leading MET: no cuts



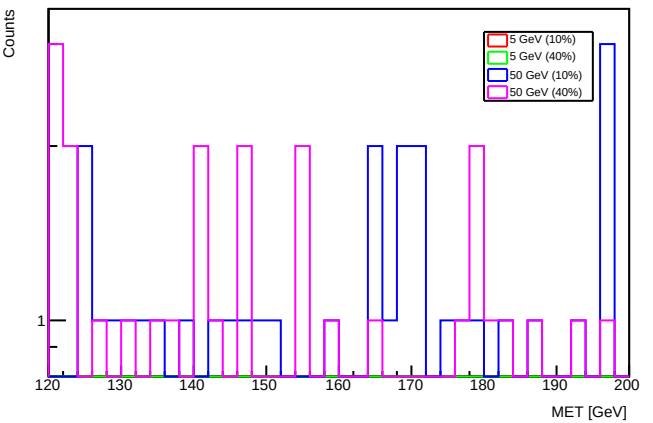
reco leading MET: n_jet >=1, j1pt > 30 GeV



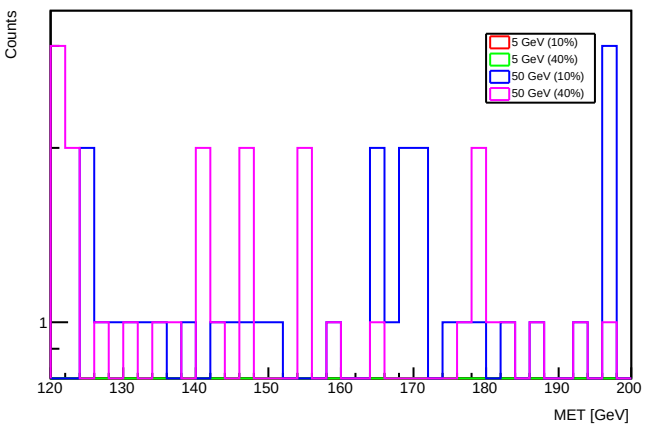
reco leading MET: MET > 120 GeV



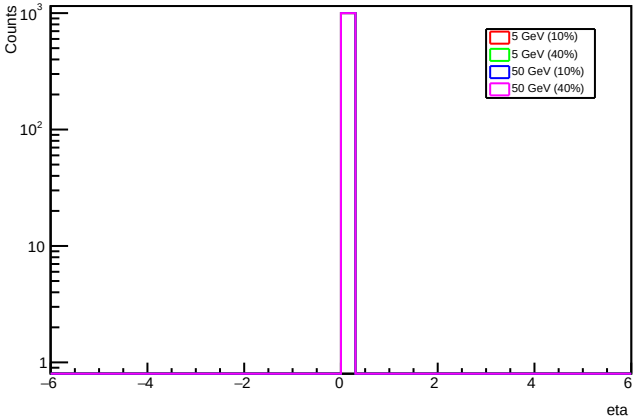
reco leading MET: j1pt >120, at most 2 jets w/ pt >30 GeV



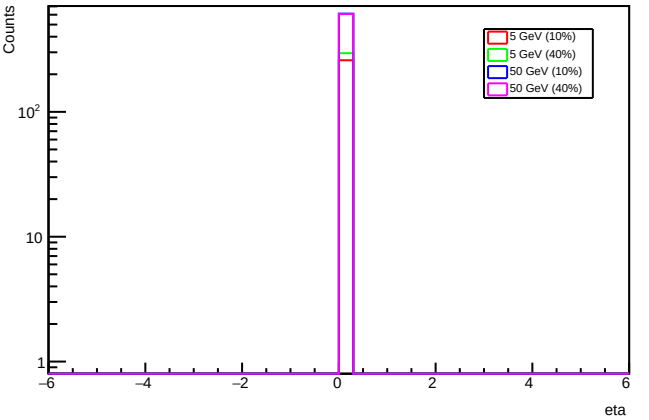
reco leading MET: at least 2 mu w/ pt > 2 GeV and eta<2.5



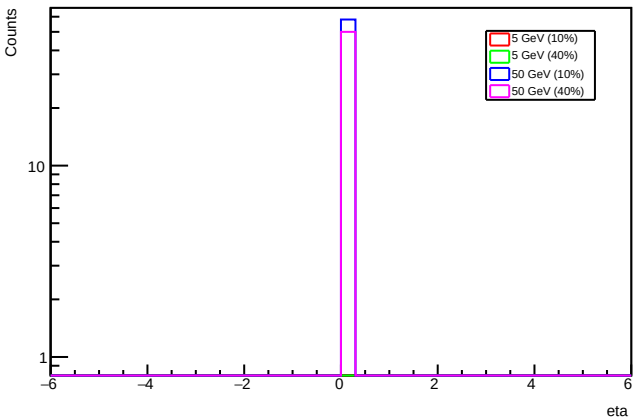
reco leading Met eta: no cuts



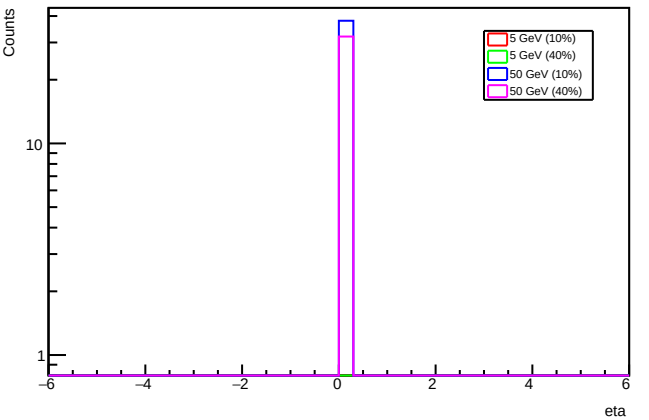
reco leading Met eta: n_jet >=1, j1pt > 30 GeV



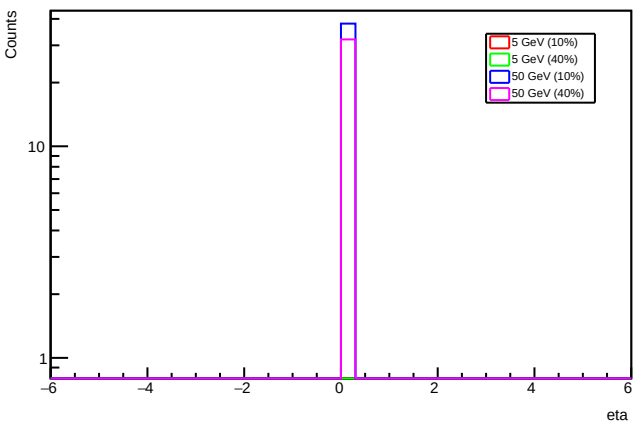
reco leading Met eta: MET > 120 GeV



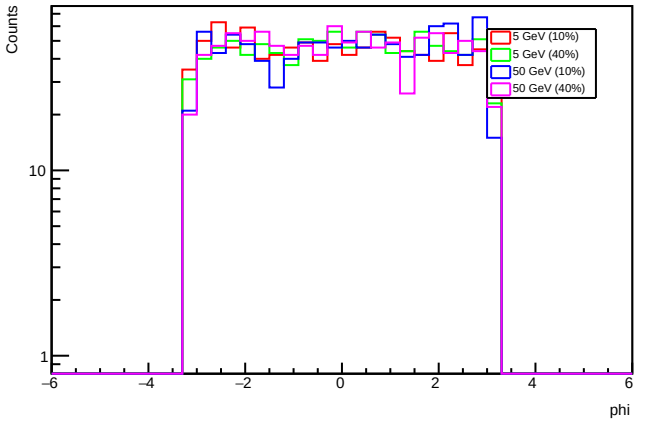
reco leading Met eta: j1pt >120, at most 2 jets w/ pt >30 GeV



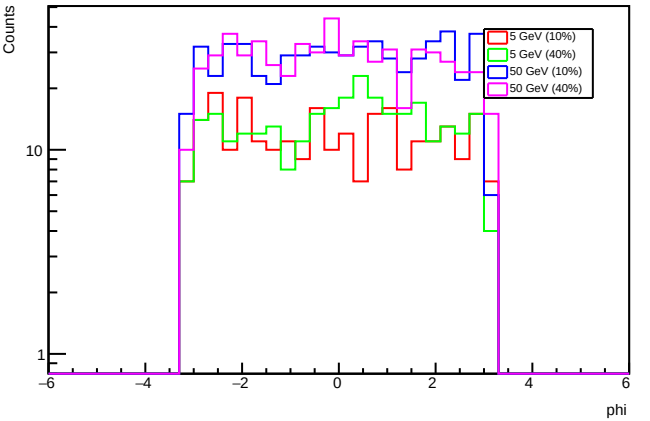
reco leading Met eta: at least 2 mu w/ pt > 2 GeV and eta<2.5



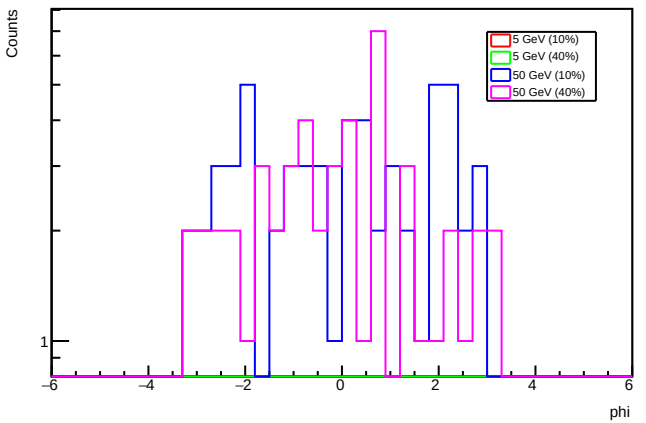
reco leading Met phi: no cuts



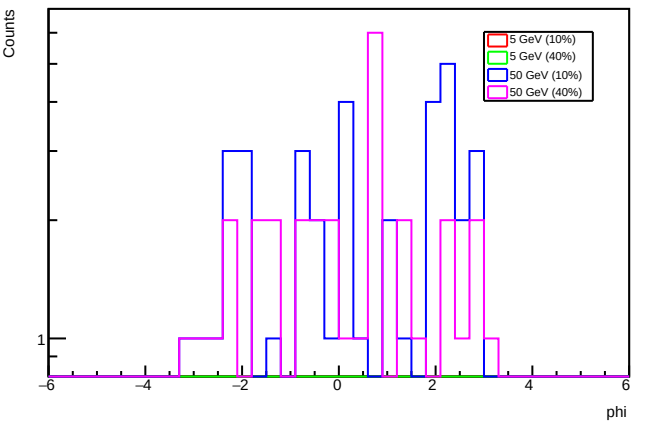
reco leading Met phi: n_jet >=1, j1pt > 30 GeV



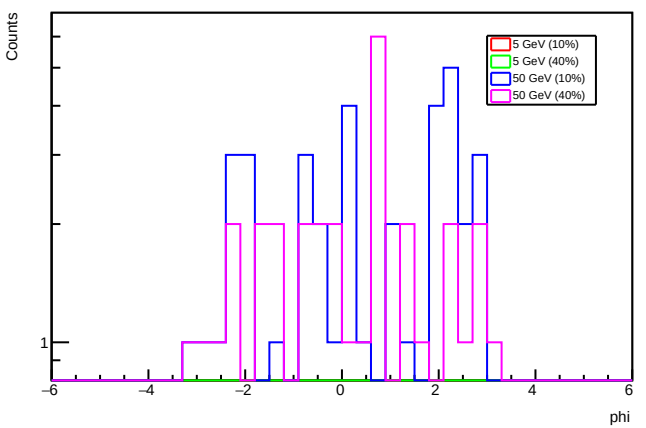
reco leading Met phi: MET > 120 GeV



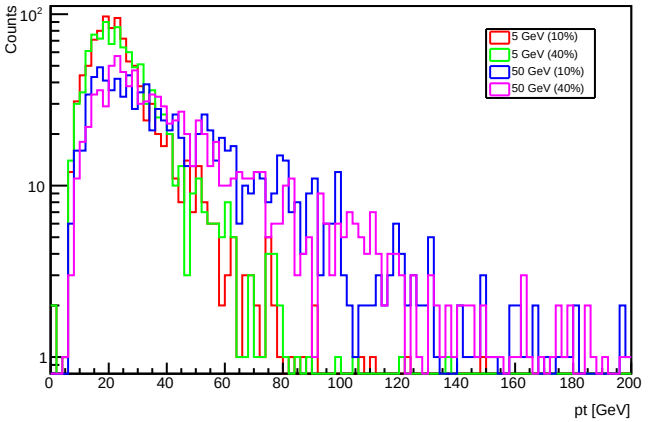
reco leading Met phi: j1pt >120, at most 2 jets w/ pt >30 GeV



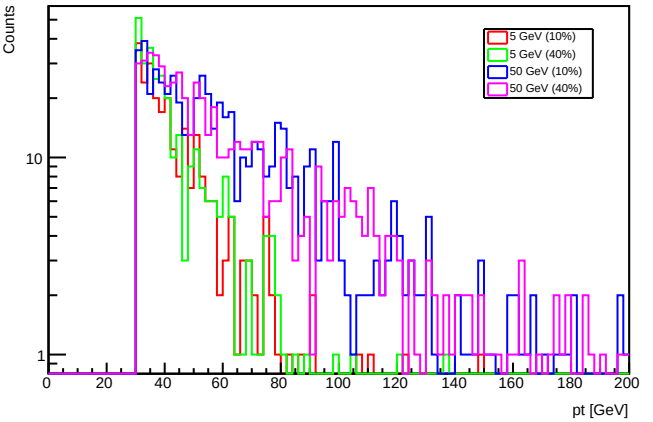
reco leading Met phi: at least 2 mu w/ pt > 2 GeV and eta<2.5



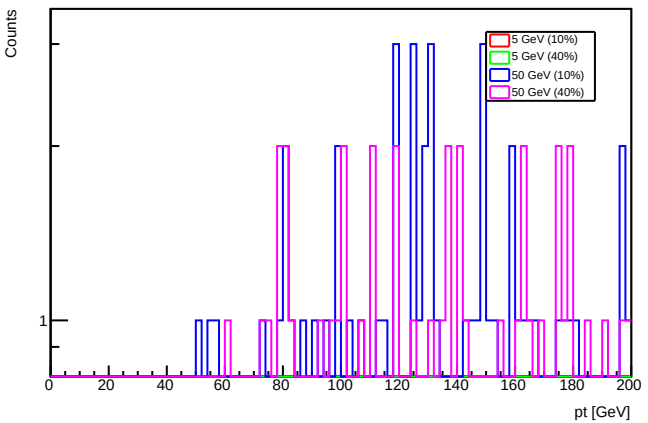
reco leading Jet pt: no cuts



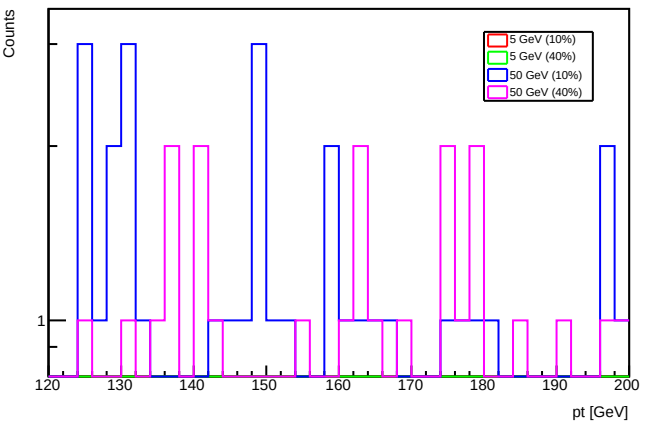
reco leading Jet pt: n_jet >=1, j1pt > 30 GeV



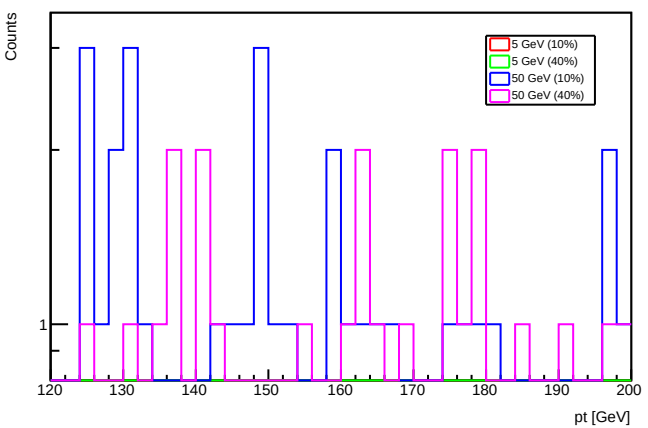
reco leading Jet pt: MET > 120 GeV



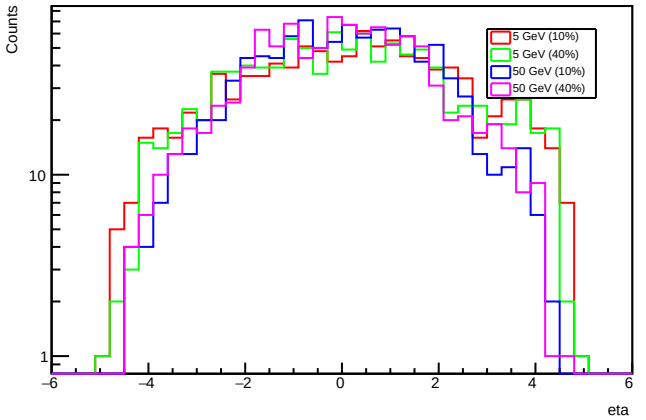
reco leading Jet pt: j1pt >120, at most 2 jets w/ pt >30 GeV



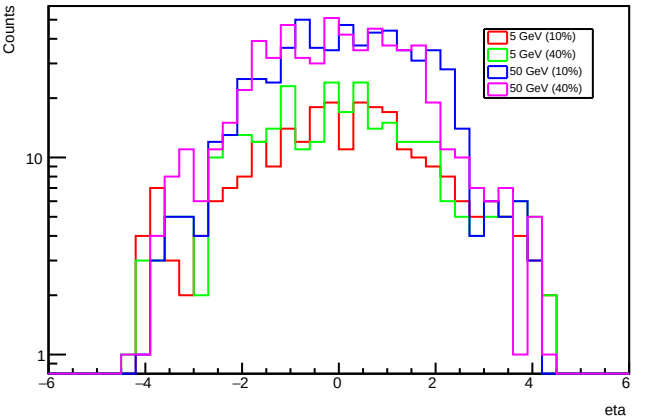
reco leading Jet pt: at least 2 mu w/ pt > 2 GeV and eta<2.5



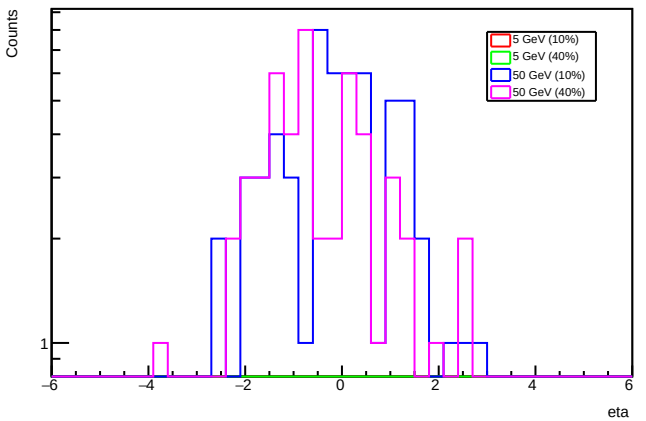
reco leading Jet eta: no cuts



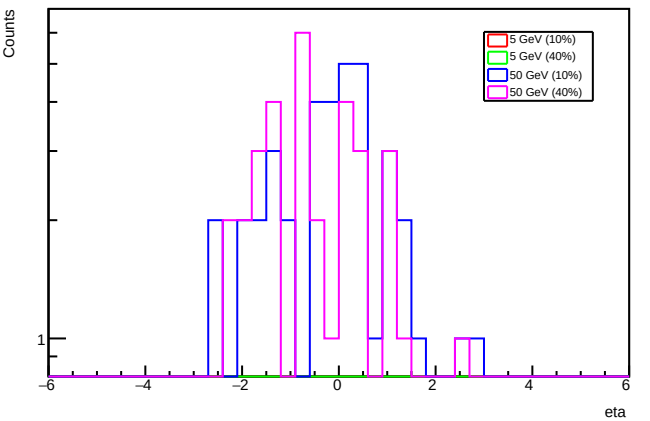
reco leading Jet eta: n_jet >=1, j1pt > 30 GeV



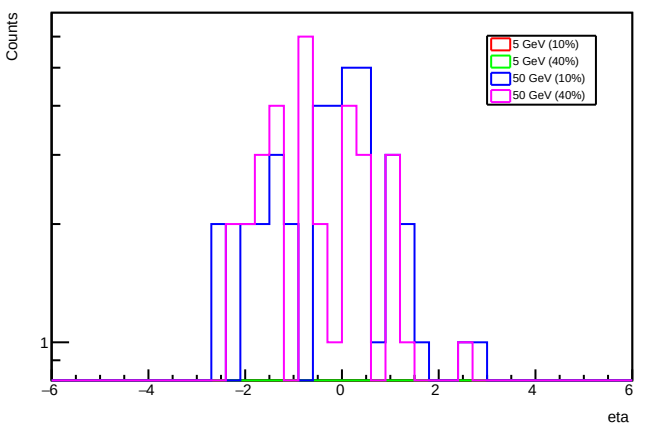
reco leading Jet eta: MET > 120 GeV



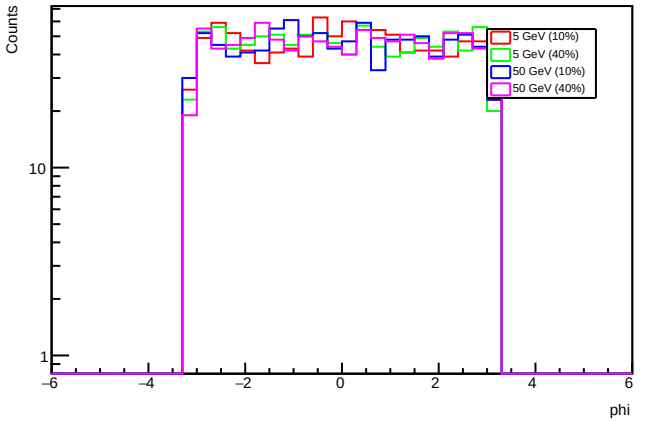
reco leading Jet eta: j1pt >120, at most 2 jets w/ pt >30 GeV



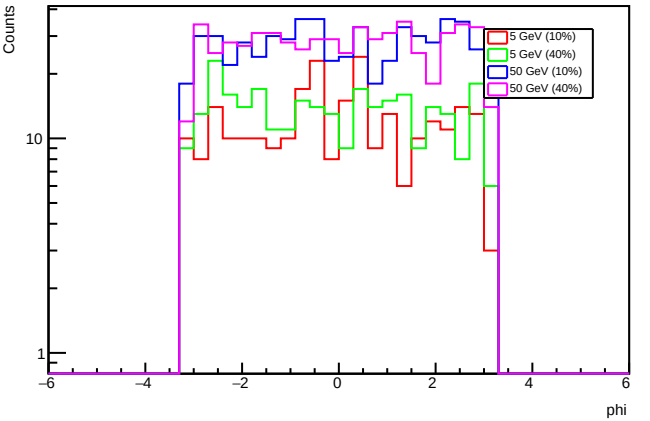
reco leading Jet eta: at least 2 mu w/ pt > 2 GeV and eta<2.5



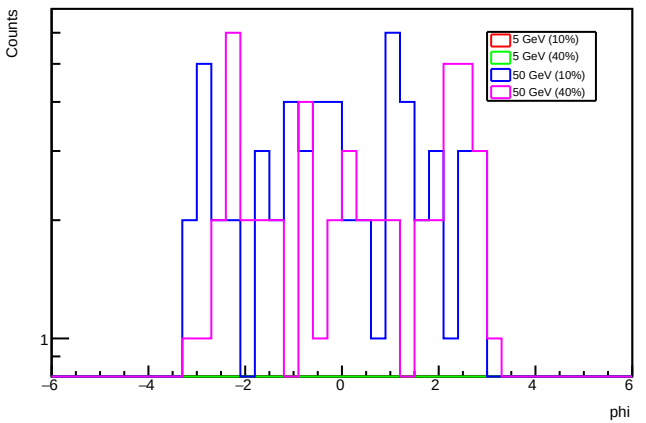
reco leading Jet phi: no cuts



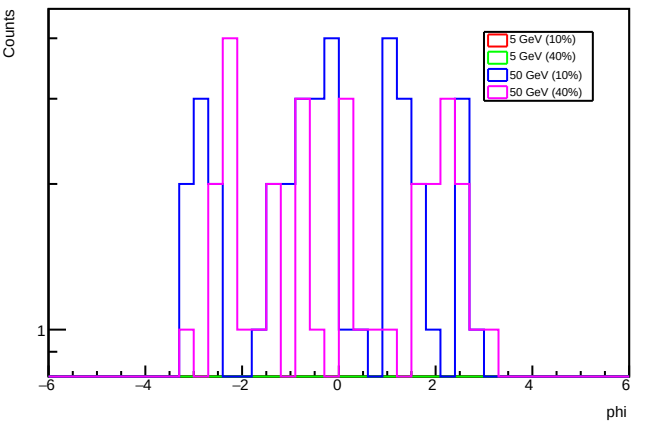
reco leading Jet phi: n_jet >=1, j1pt > 30 GeV



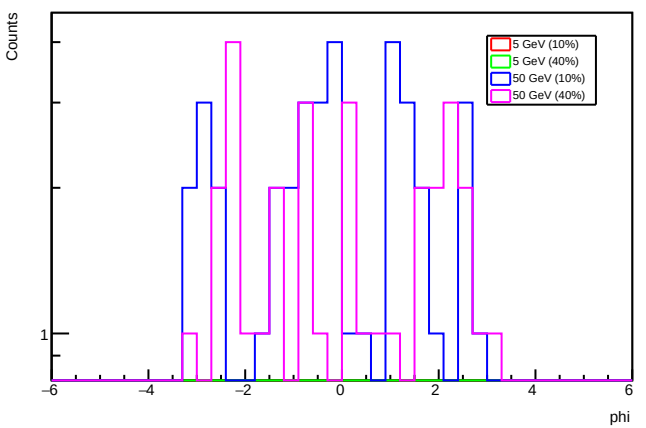
reco leading Jet phi: MET > 120 GeV



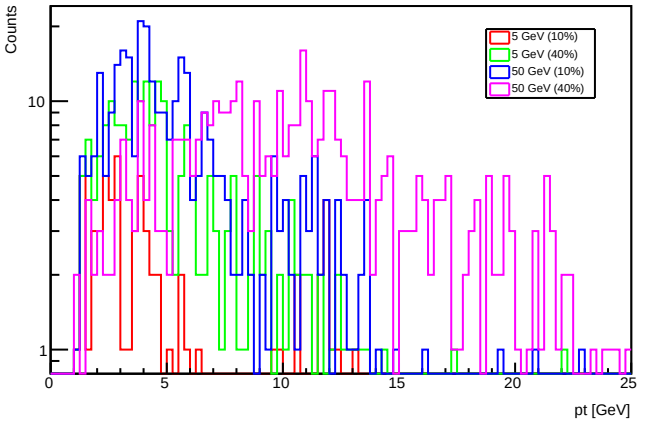
reco leading Jet phi: j1pt >120, at most 2 jets w/ pt >30 GeV



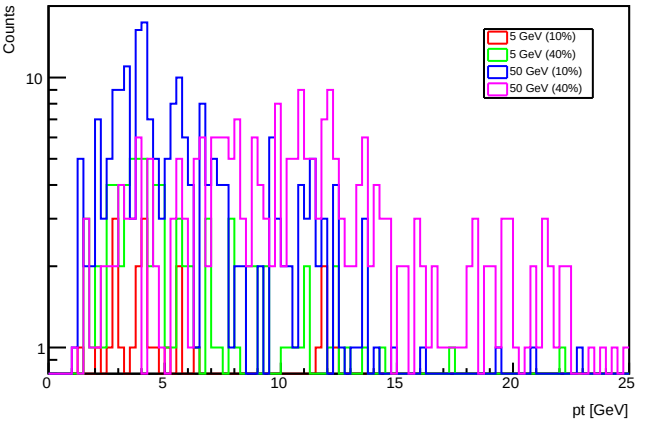
reco leading Jet phi: at least 2 mu w/ pt > 2 GeV and eta<2.5



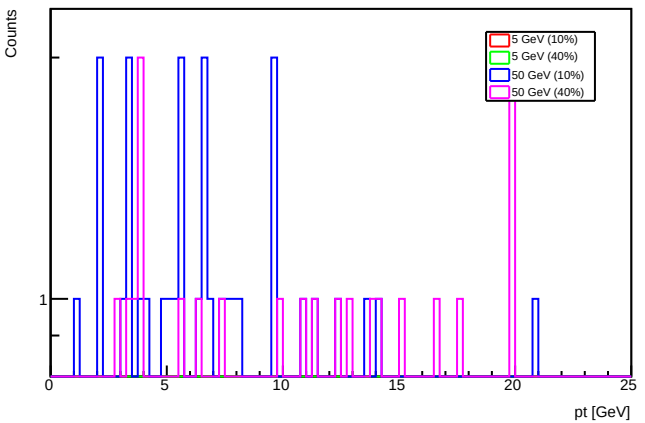
reco leading Mu pt: no cuts



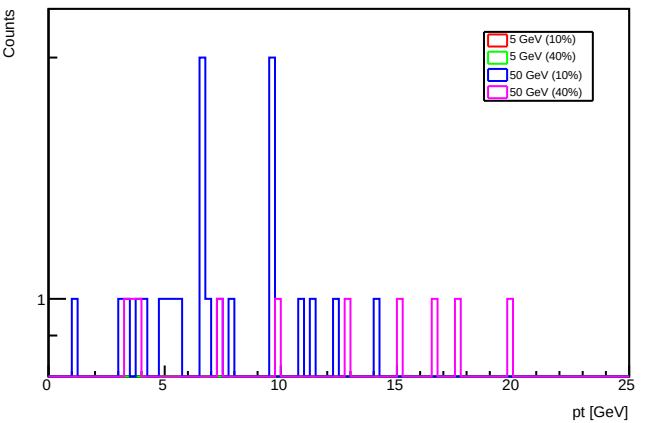
reco leading Mu pt: n_jet >=1, j1pt > 30 GeV



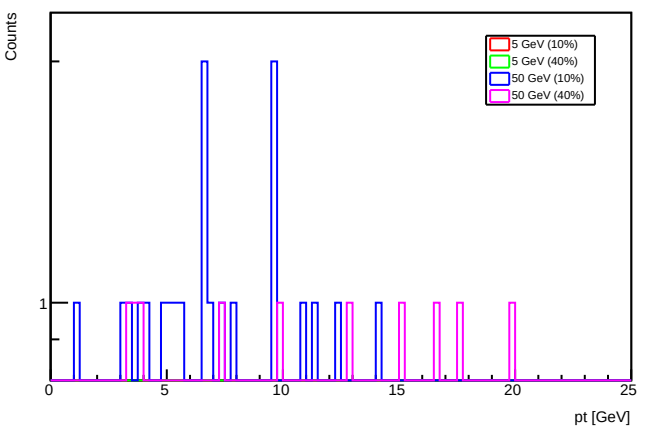
reco leading Mu pt: MET > 120 GeV



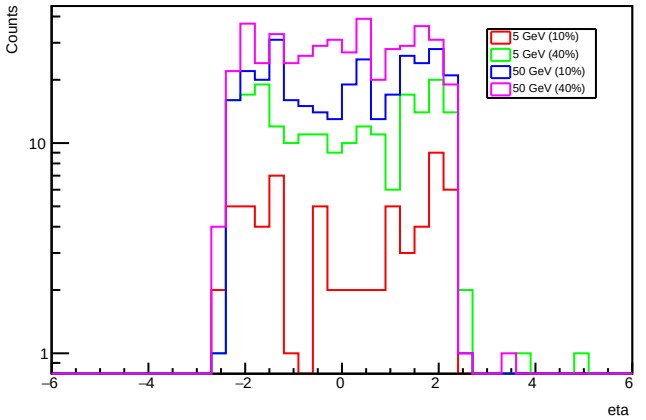
reco leading Mu pt: j1pt >120, at most 2 jets w/ pt >30 GeV



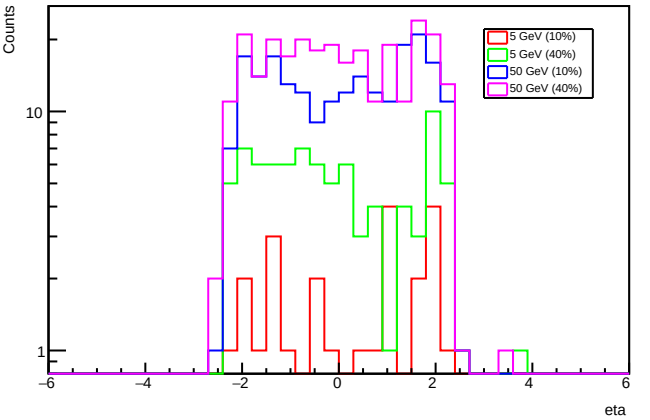
reco leading Mu pt: at least 2 mu w/ pt > 2 GeV and eta<2.5



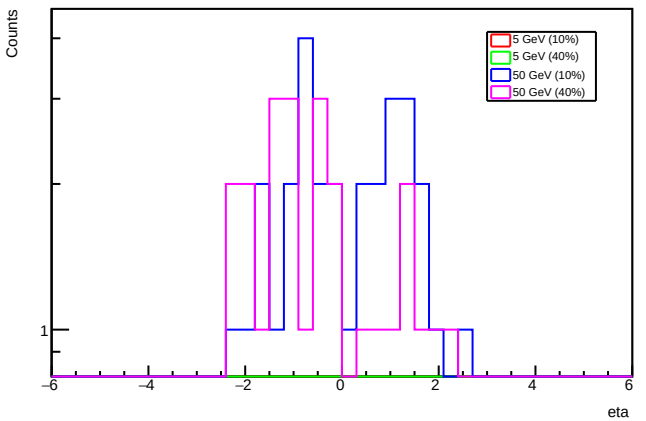
reco leading Mu eta: no cuts



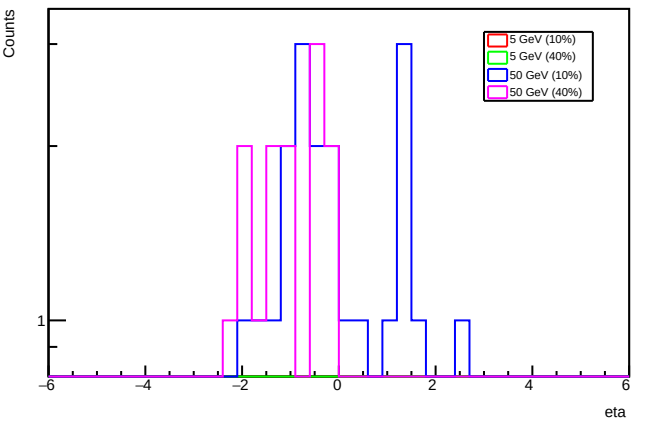
reco leading Mu eta: n_jet >=1, j1pt > 30 GeV



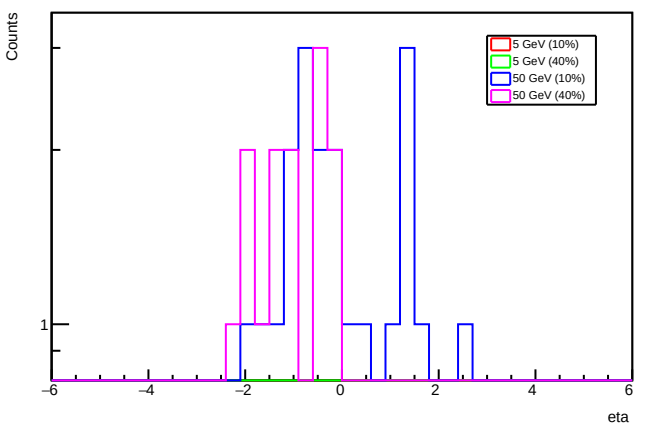
reco leading Mu eta: MET > 120 GeV



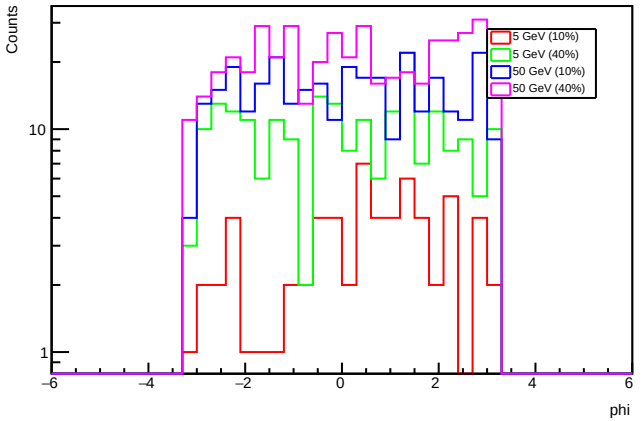
reco leading Mu eta: j1pt >120, at most 2 jets w/ pt >30 GeV



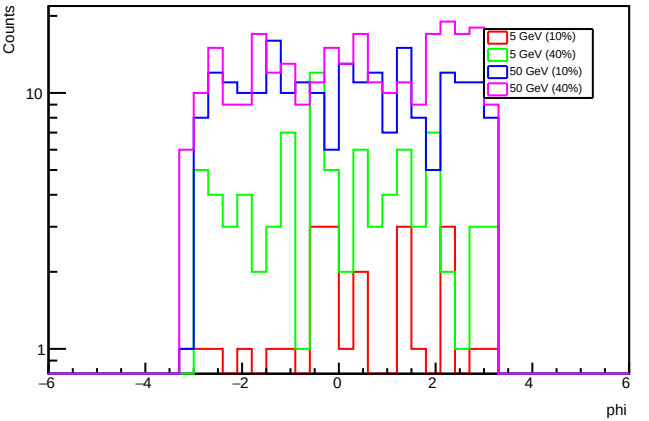
reco leading Mu eta: at least 2 mu w/ pt > 2 GeV and eta<2.5



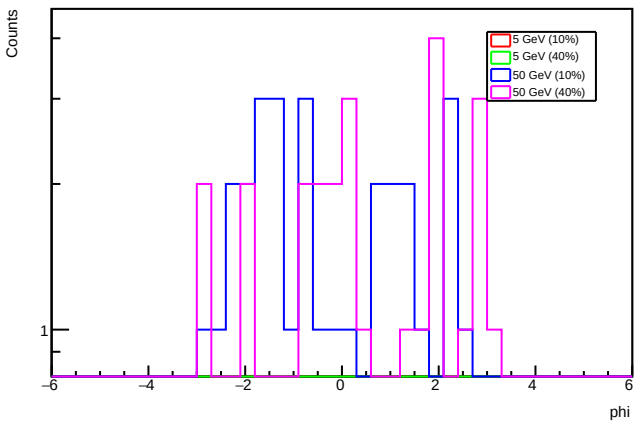
reco leading Mu phi: no cuts



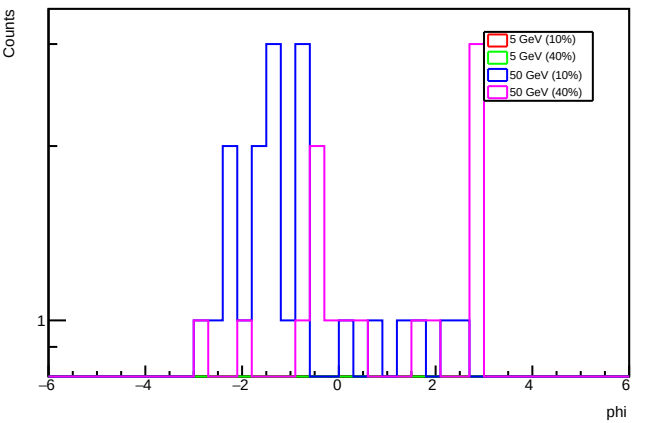
reco leading Mu phi: n_jet >=1, j1pt > 30 GeV



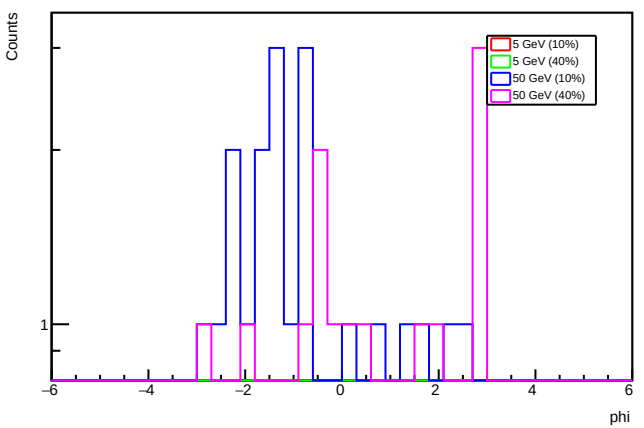
reco leading Mu phi: MET > 120 GeV



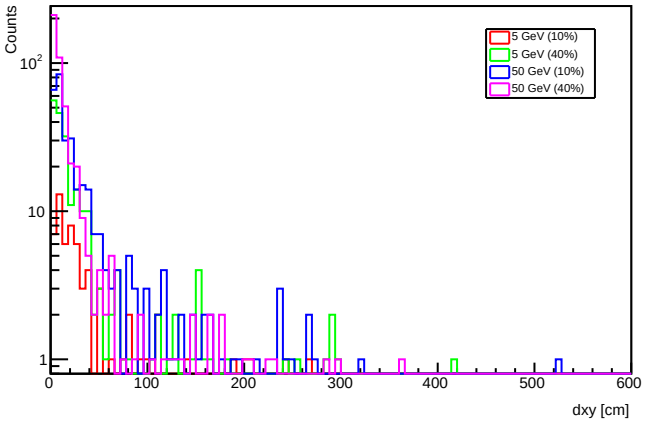
reco leading Mu phi: j1pt >120, at most 2 jets w/ pt >30 GeV



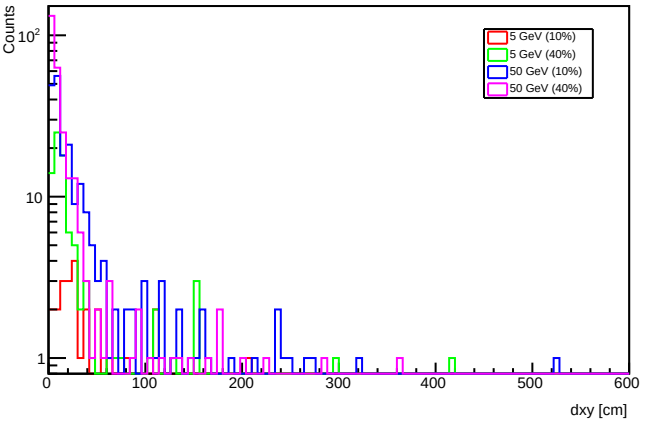
reco leading Mu phi: at least 2 mu w/ pt > 2 GeV and eta<2.5



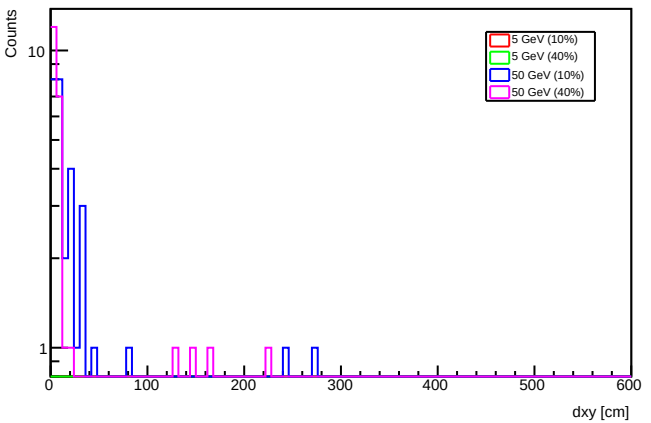
reco leading Mu vxy: no cuts



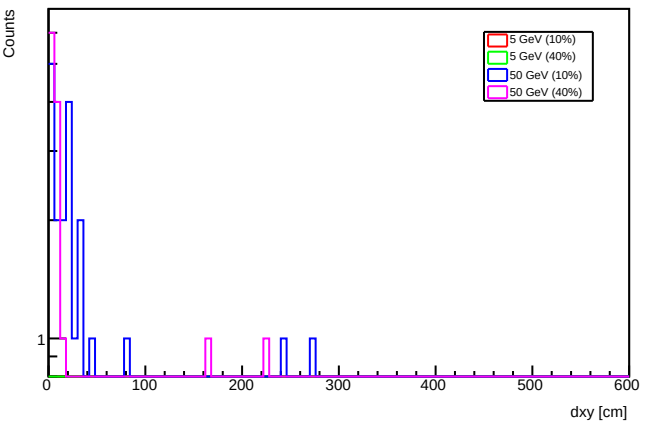
reco leading Mu vxy: n_jet >=1, j1pt > 30 GeV



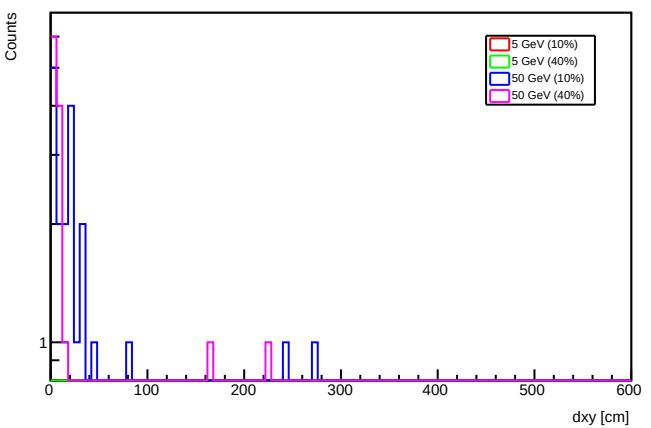
reco leading Mu vxy: MET > 120 GeV



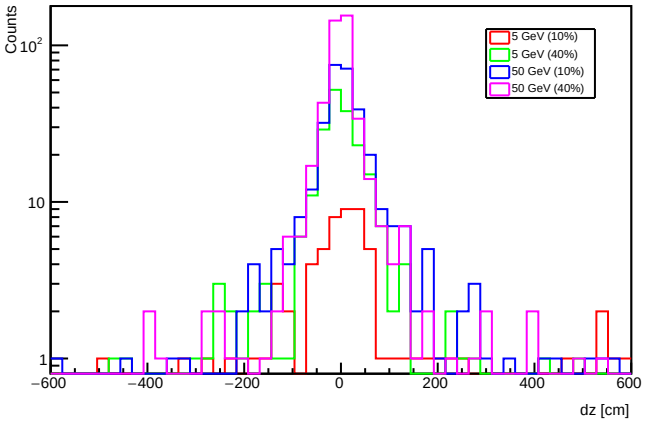
reco leading Mu vxy: j1pt >120, at most 2 jets w/ pt >30 GeV



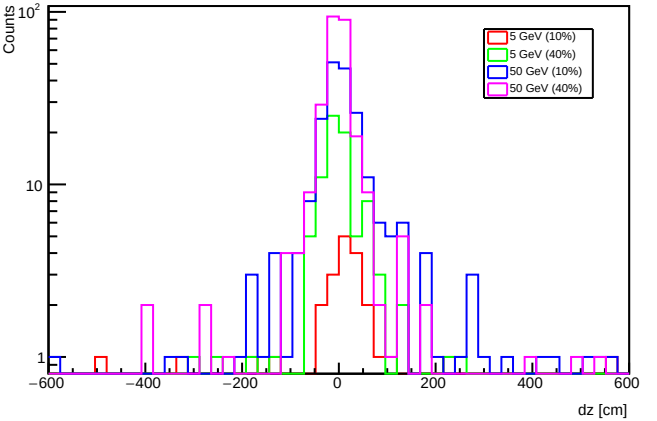
reco leading Mu vxy: at least 2 mu w/ pt > 2 GeV and eta<2.5



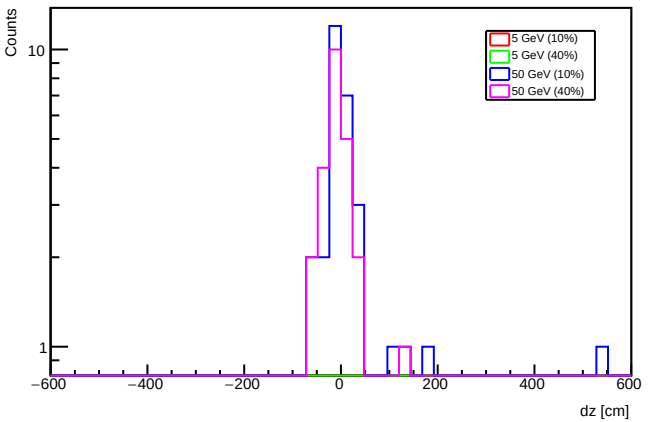
reco leading Mu vz: no cuts



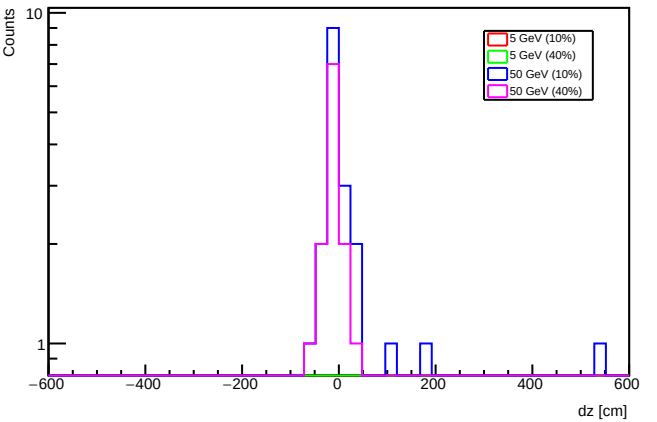
reco leading Mu vz: n_jet >=1, j1pt > 30 GeV



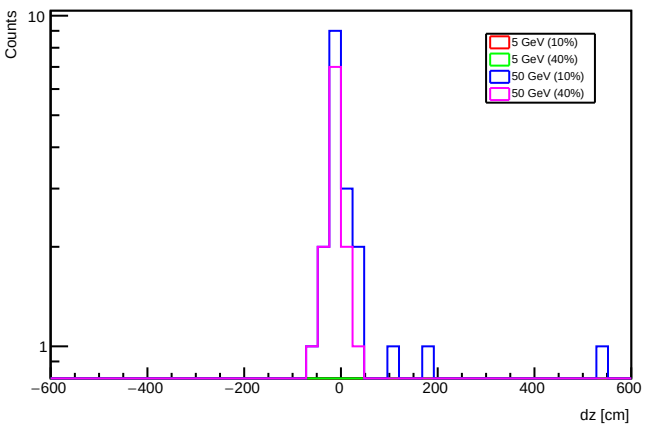
reco leading Mu vz: MET > 120 GeV



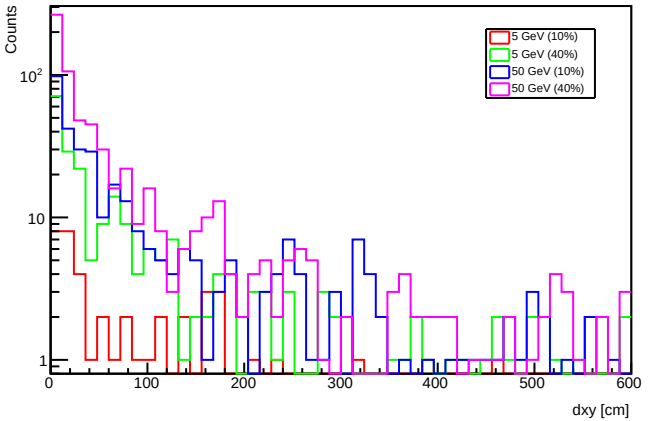
reco leading Mu vz: j1pt >120, at most 2 jets w/ pt >30 GeV



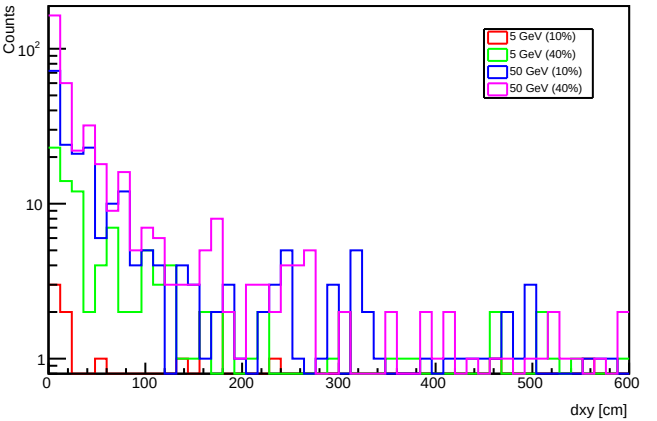
reco leading Mu vz: at least 2 mu w/ pt > 2 GeV and eta<2.5



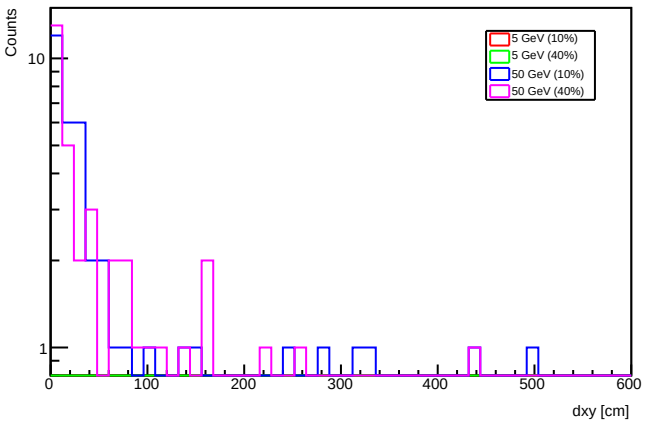
reco all Mu vxy: no cuts



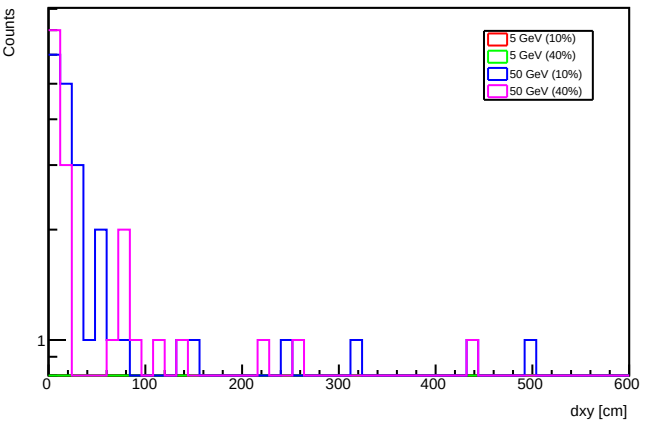
reco all Mu vxy: n_jet >=1, j1pt > 30 GeV



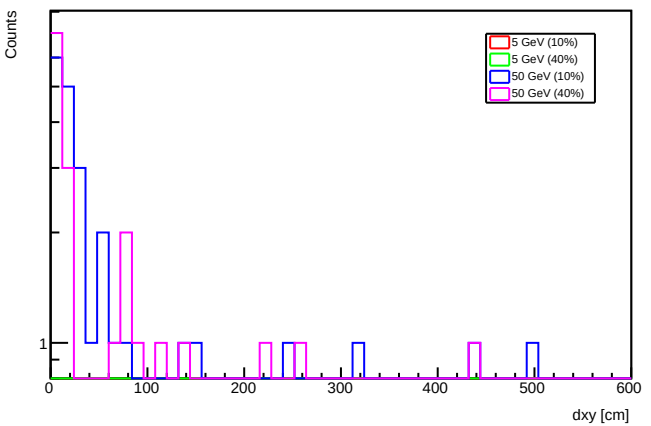
reco all Mu vxy: MET > 120 GeV



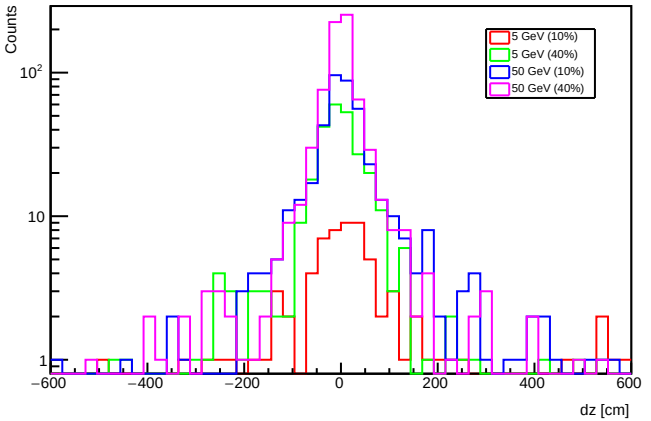
reco all Mu vxy: j1pt >120, at most 2 jets w/ pt >30 GeV



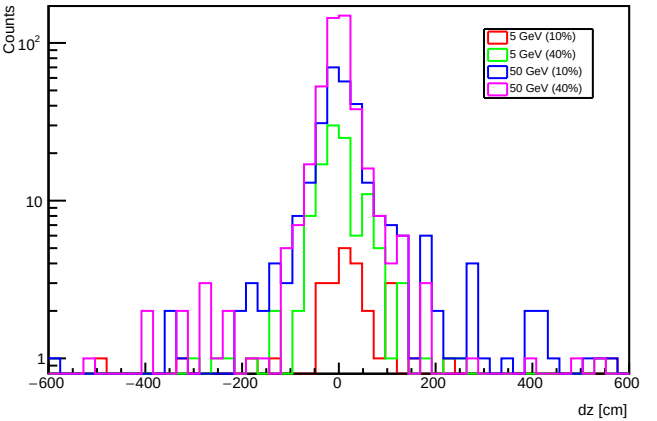
reco all Mu vxy: at least 2 mu w/ pt > 2 GeV and eta<2.5



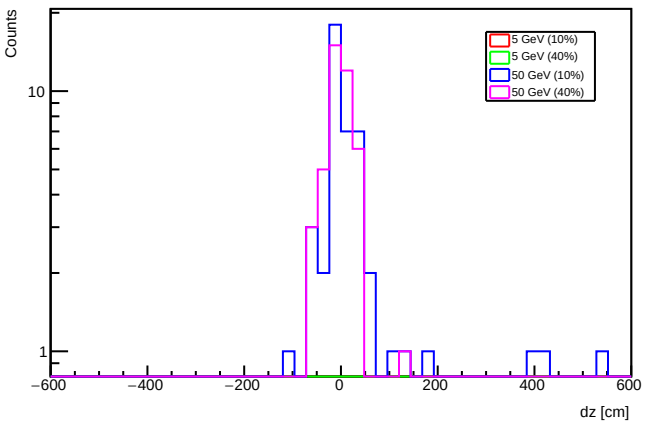
reco all Mu vz: no cuts



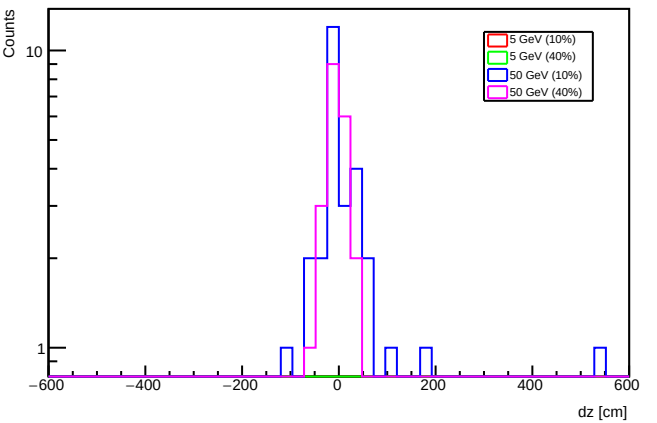
reco all Mu vz: n_jet >=1, j1pt > 30 GeV



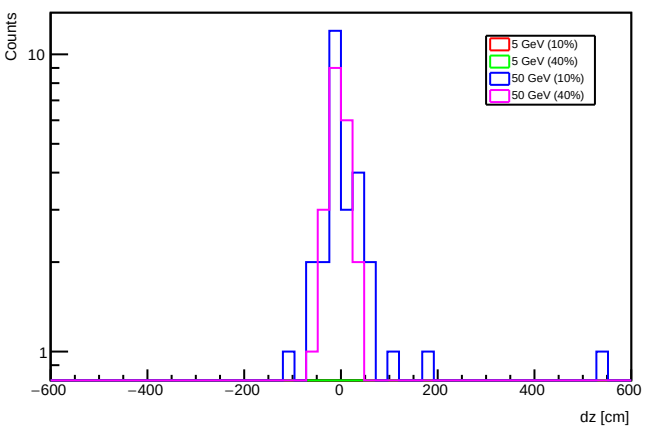
reco all Mu vz: MET > 120 GeV



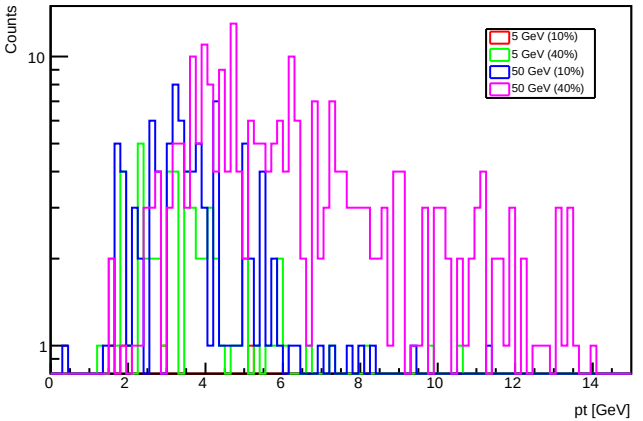
reco all Mu vz: j1pt >120, at most 2 jets w/ pt >30 GeV



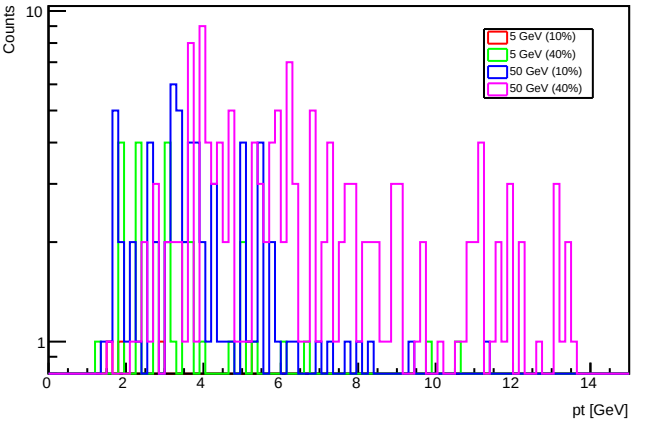
reco all Mu vz: at least 2 mu w/ pt > 2 GeV and eta<2.5



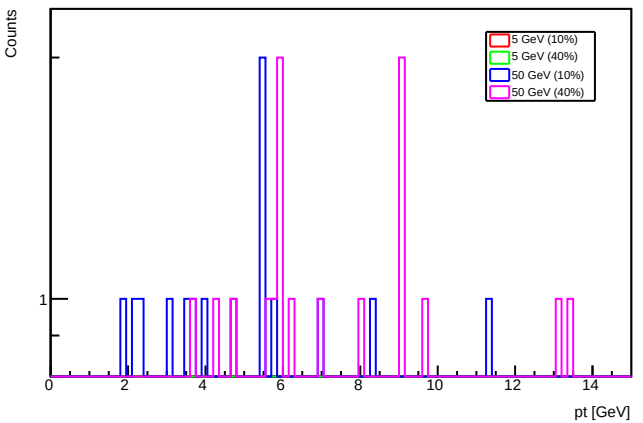
reco subleading Mu pt: no cuts



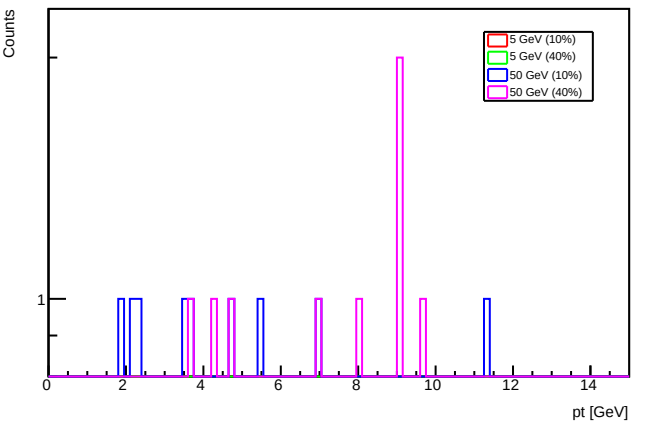
reco subleading Mu pt: n_jet >=1, j1pt > 30 GeV



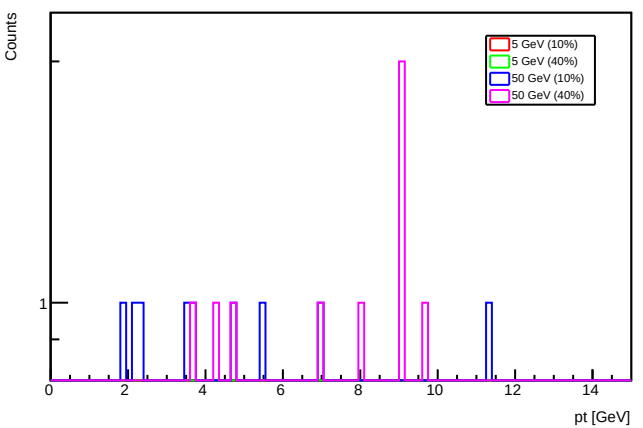
reco subleading Mu pt: MET > 120 GeV



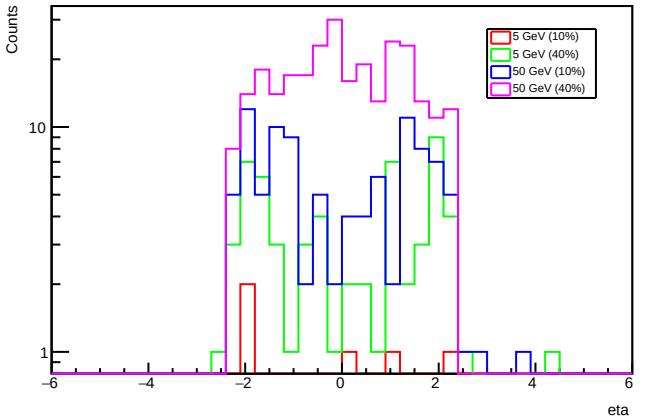
reco subleading Mu pt: j1pt >120, at most 2 jets w/ pt >30 GeV



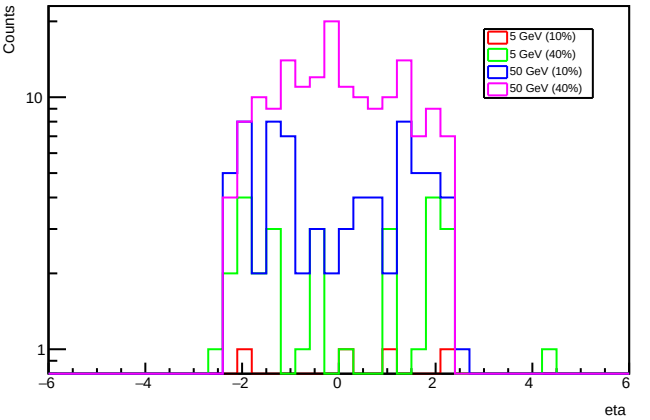
reco subleading Mu pt: at least 2 mu w/ pt > 2 GeV and eta<2.5



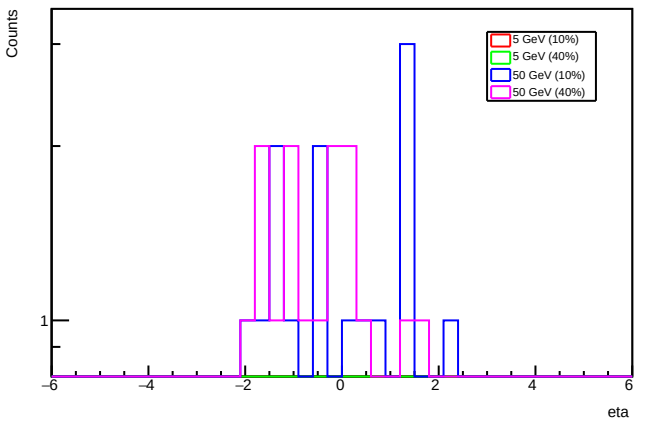
reco subleading Mu eta: no cuts



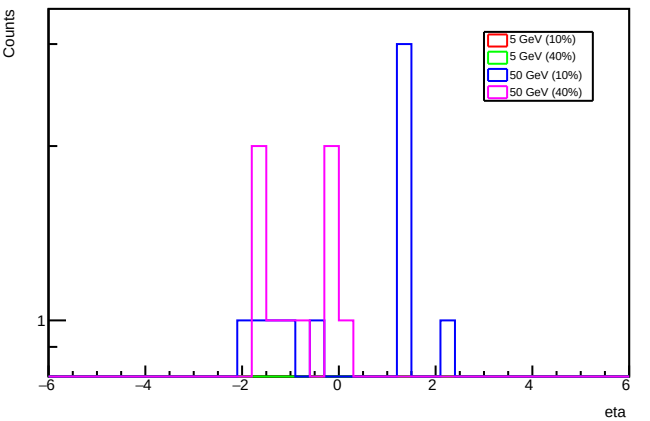
reco subleading Mu eta: n_jet >=1, j1pt > 30 GeV



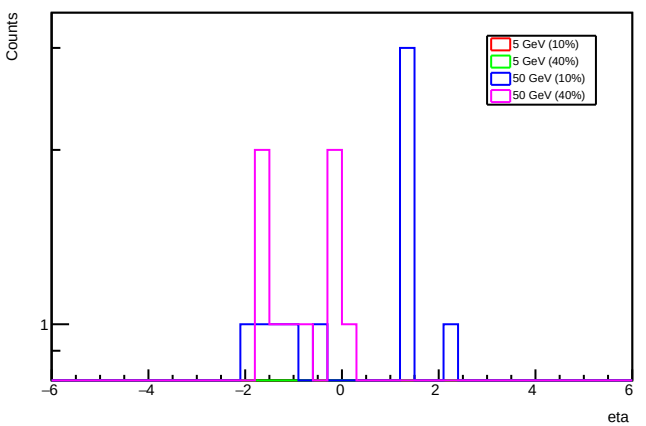
reco subleading Mu eta: MET > 120 GeV



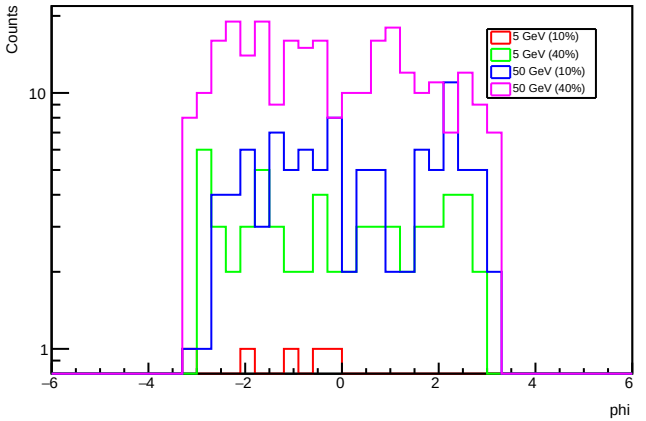
reco subleading Mu eta: j1pt >120, at most 2 jets w/ pt >30 GeV



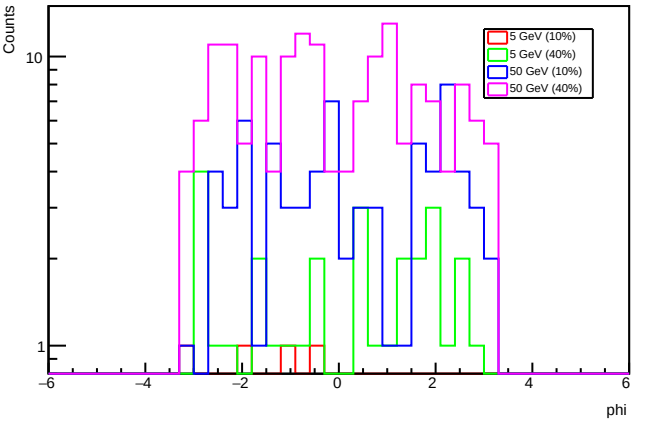
reco subleading Mu eta: at least 2 mu w/ pt > 2 GeV and eta<2.5



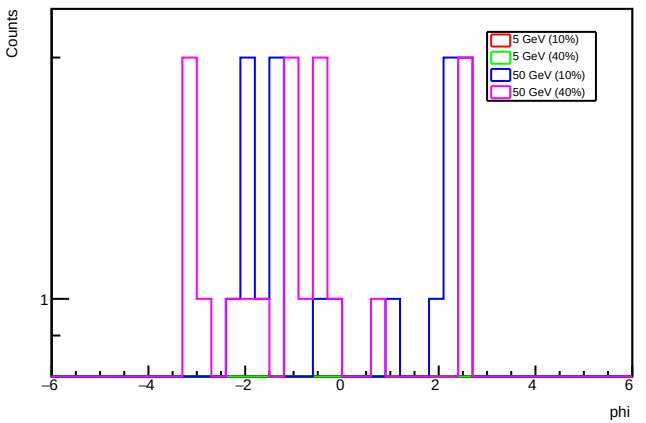
reco subleading Mu phi: no cuts



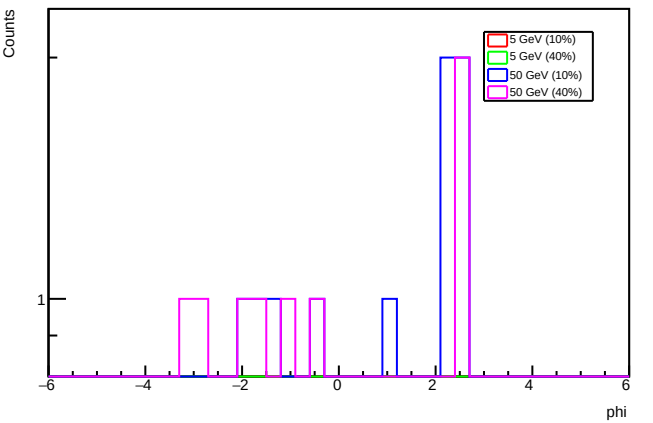
reco subleading Mu phi: n_jet >=1, j1pt > 30 GeV



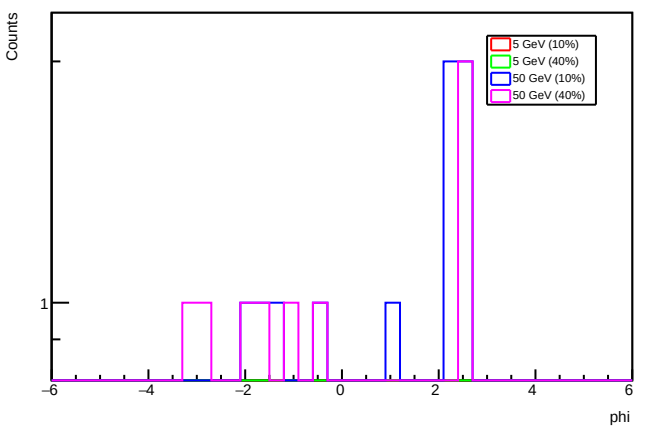
reco subleading Mu phi: MET > 120 GeV



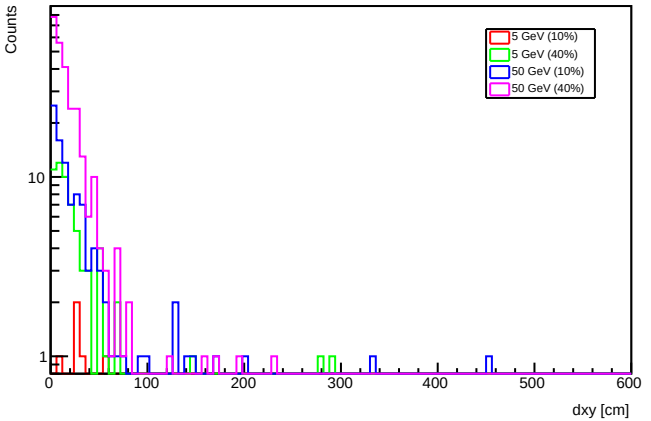
reco subleading Mu phi: j1pt >120, at most 2 jets w/ pt >30 GeV



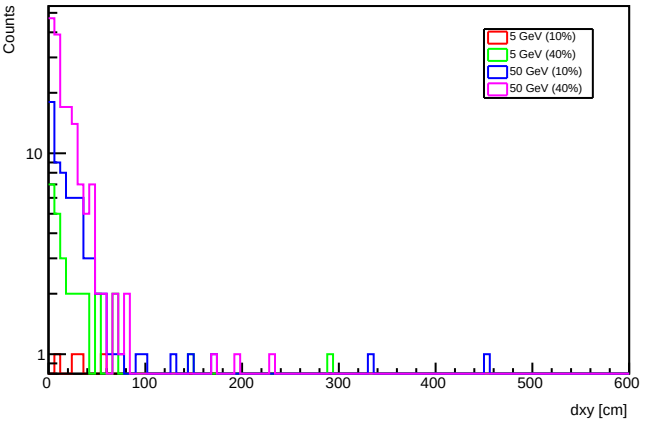
reco subleading Mu phi: at least 2 mu w/ pt > 2 GeV and eta<2.5



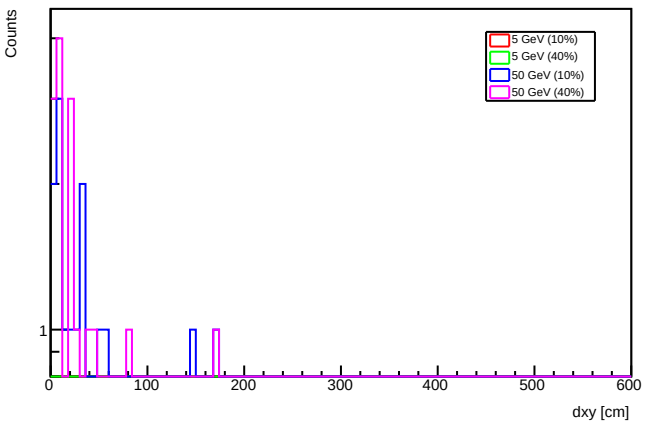
reco subleading Mu vxy: no cuts



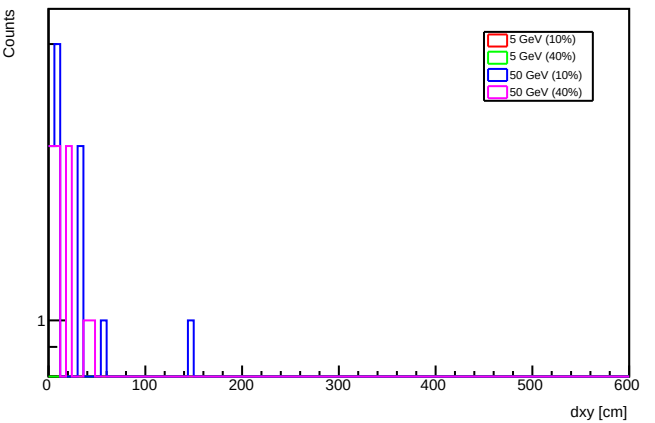
reco subleading Mu vxy: n_jet >=1, j1pt > 30 GeV



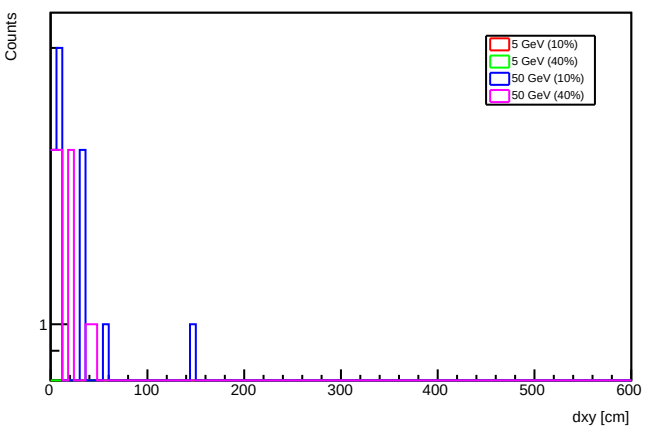
reco subleading Mu vxy: MET > 120 GeV



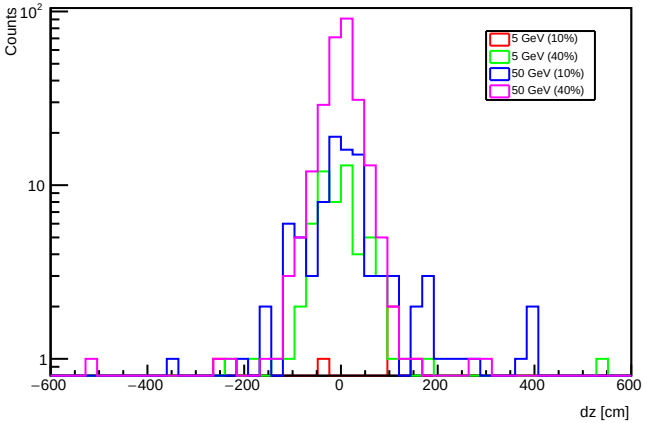
reco subleading Mu vxy: j1pt >120, at most 2 jets w/ pt >30 GeV



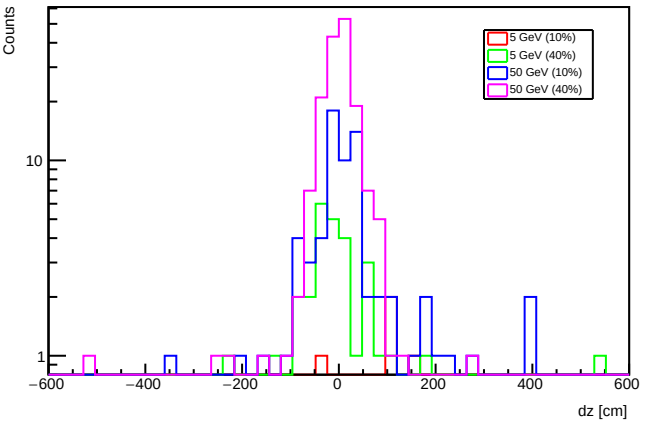
reco subleading Mu vxy: at least 2 mu w/ pt > 2 GeV and eta<2.5



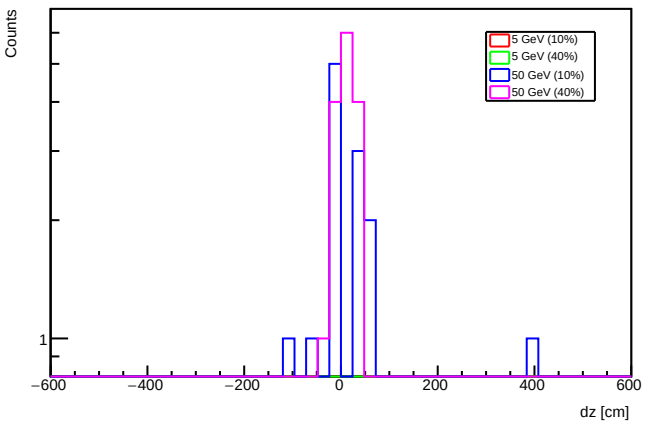
reco subleading Mu vz: no cuts



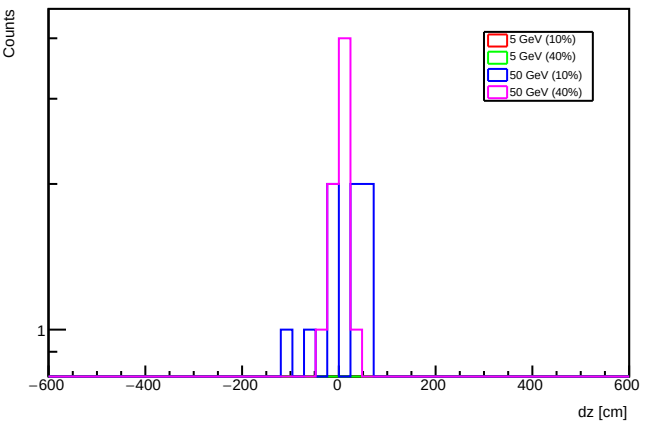
reco subleading Mu vz: n_jet >=1, j1pt > 30 GeV



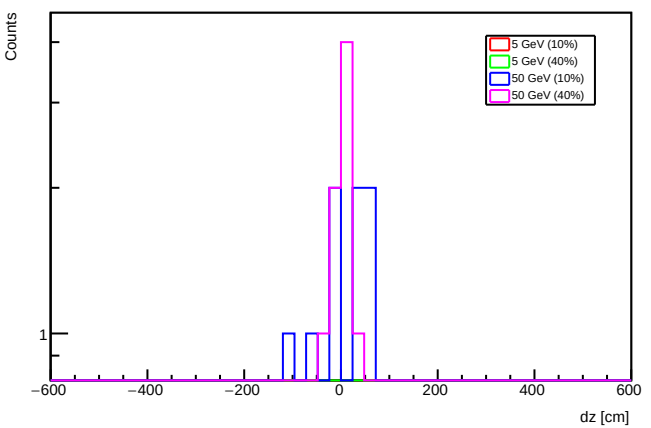
reco subleading Mu vz: MET > 120 GeV



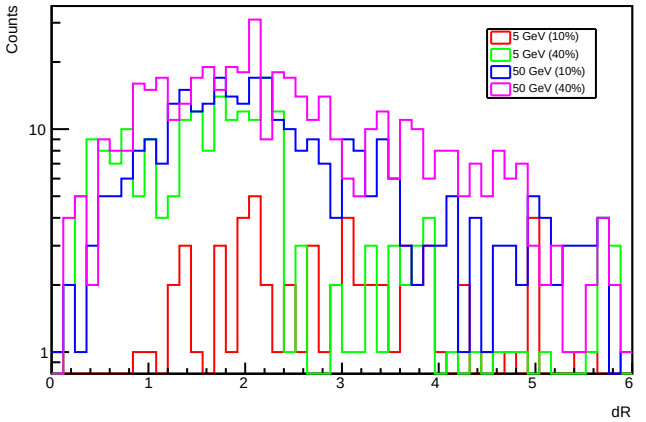
reco subleading Mu vz: j1pt >120, at most 2 jets w/ pt >30 GeV



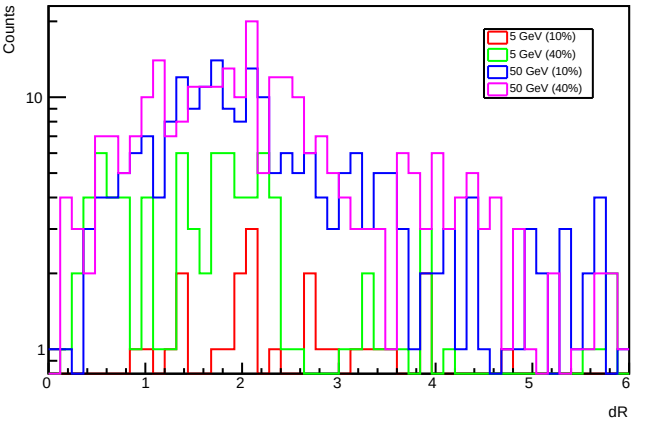
reco subleading Mu vz: at least 2 mu w/ pt > 2 GeV and eta<2.5



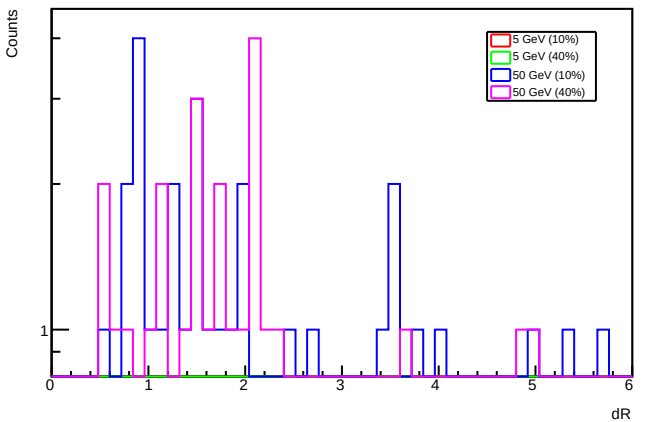
dR: reco leading mu and subleading mu: no cuts



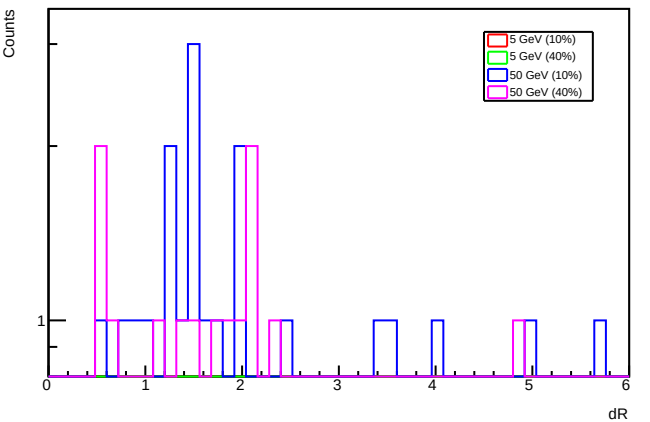
dR: reco leading mu and subleading mu: n_jet >=1, j1pt > 30 GeV



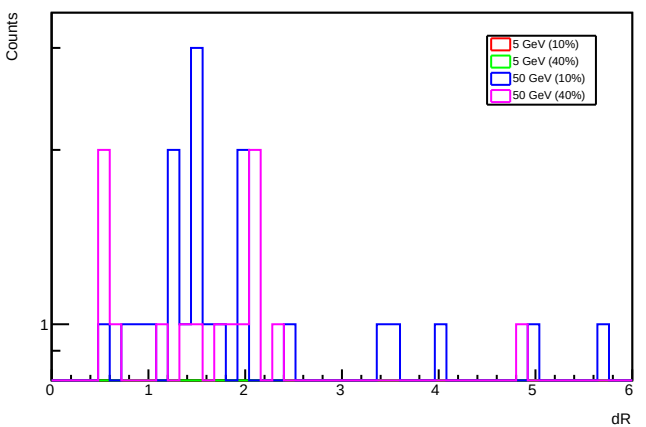
dR: reco leading mu and subleading mu: MET > 120 GeV



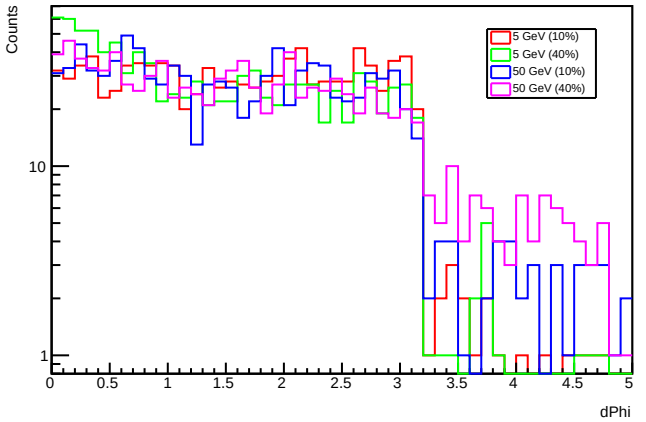
dR: reco leading mu and subleading mu: j1pt >120, at most 2 jets w/ pt >30 GeV



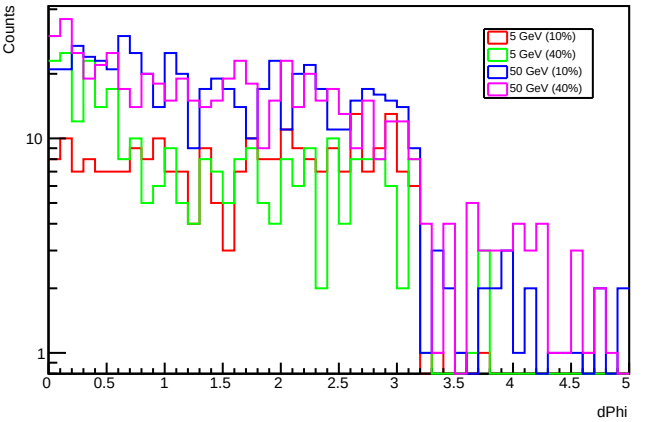
dR: reco leading mu and subleading mu: at least 2 mu w/ pt > 2 GeV and eta<2.5



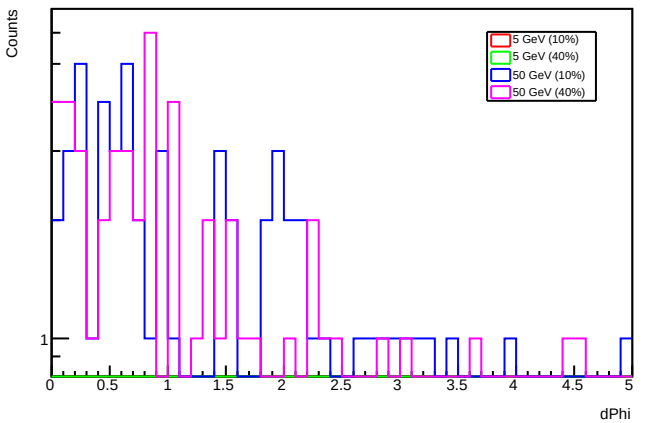
dPhi: reco MET and leading mu: no cuts



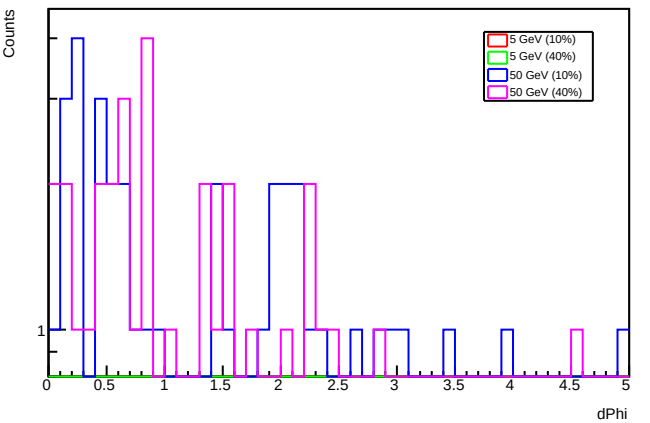
dPhi: reco MET and leading mu: n_jet >=1, j1pt > 30 GeV



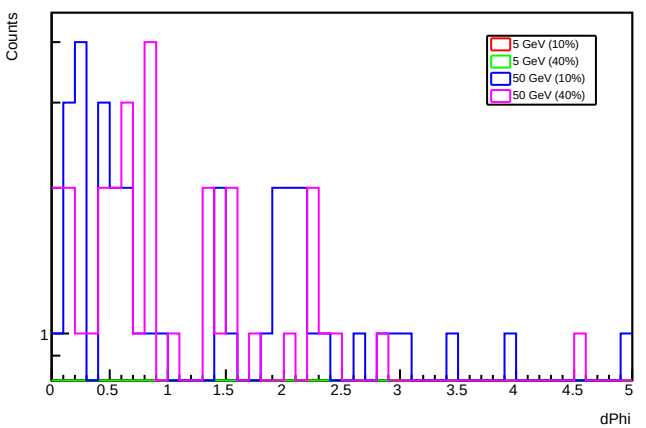
dPhi: reco MET and leading mu: MET > 120 GeV



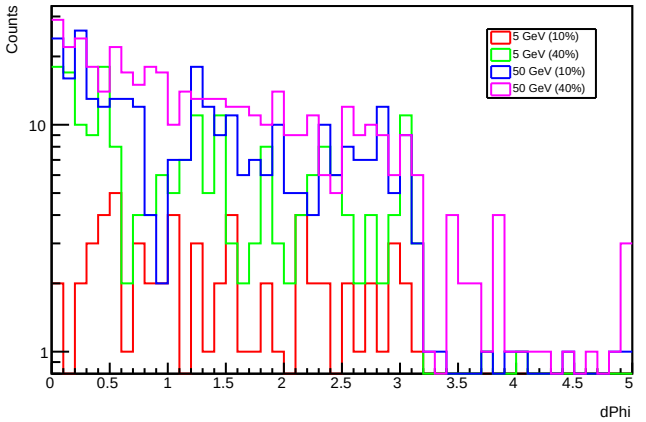
dPhi: reco MET and leading mu: j1pt >120, at most 2 jets w/ pt >30 GeV



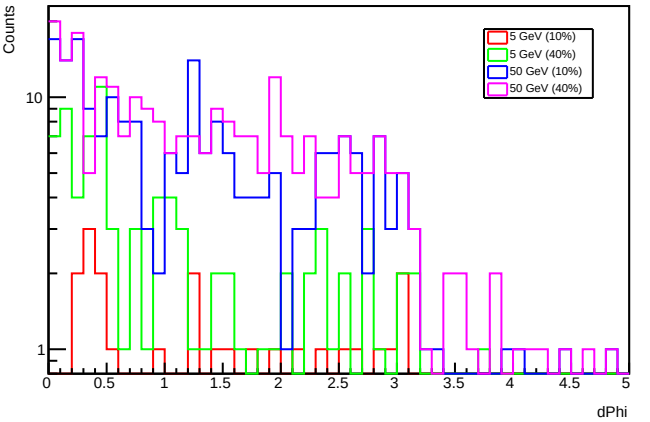
dPhi: reco MET and leading mu: at least 2 mu w/ pt > 2 GeV and eta<2.5



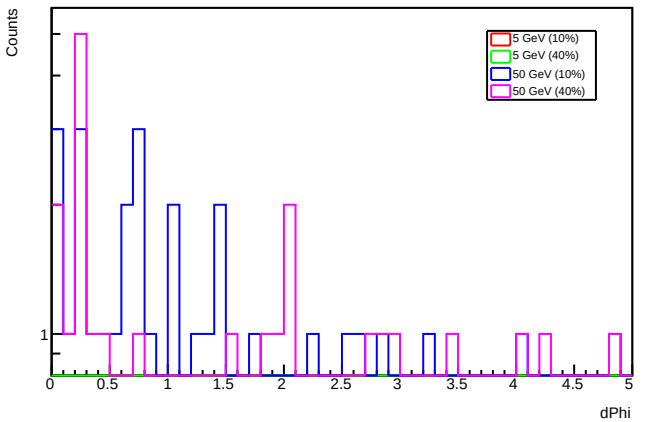
dPhi: reco leading mu and subleading mu: no cuts



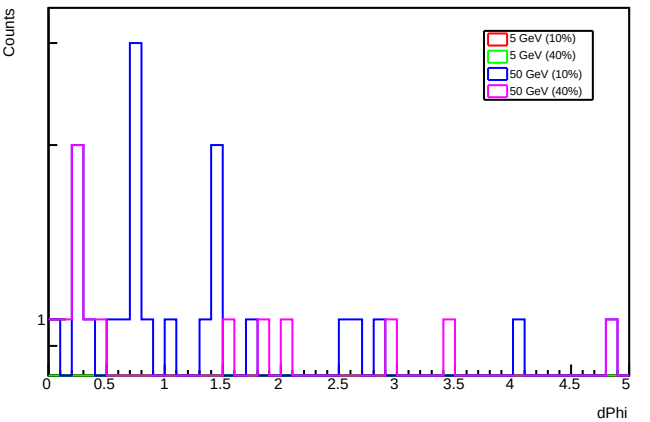
dPhi: reco leading mu and subleading mu: n_jet >=1, j1pt > 30 GeV



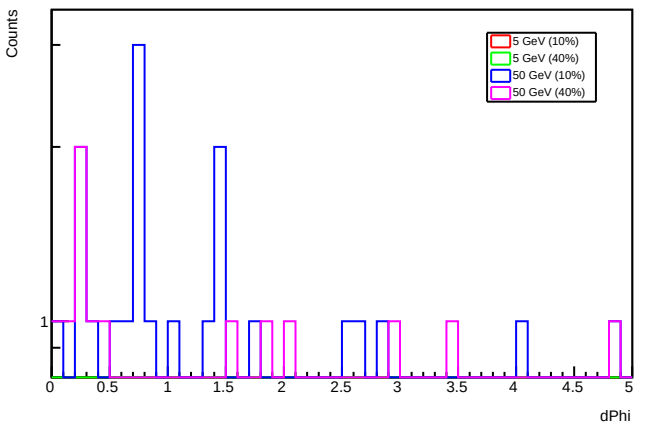
dPhi: reco leading mu and subleading mu: MET > 120 GeV



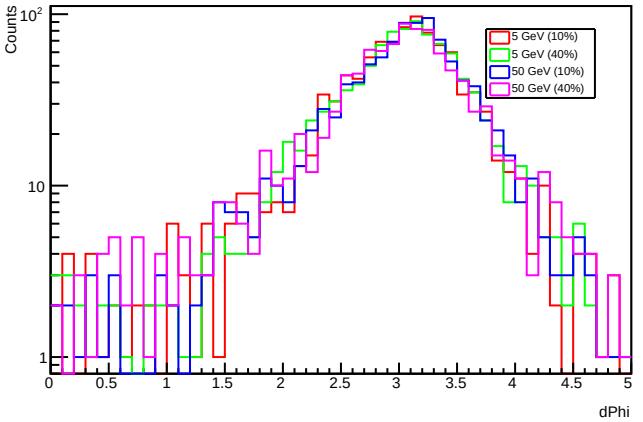
dPhi: reco leading mu and subleading mu: j1pt >120, at most 2 jets w/ pt >30 GeV



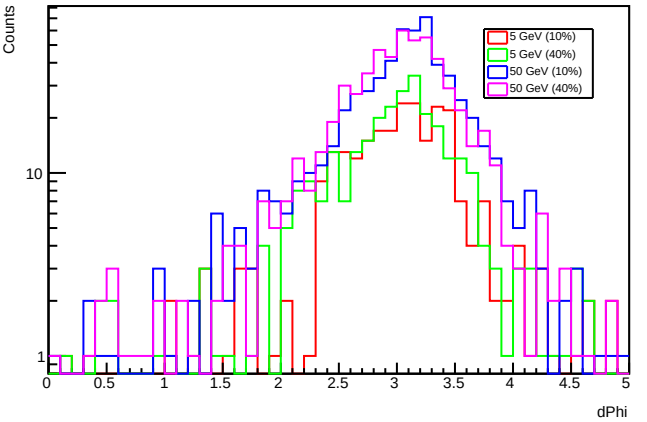
dPhi: reco leading mu and subleading mu: at least 2 mu w/ pt > 2 GeV and eta<2.5



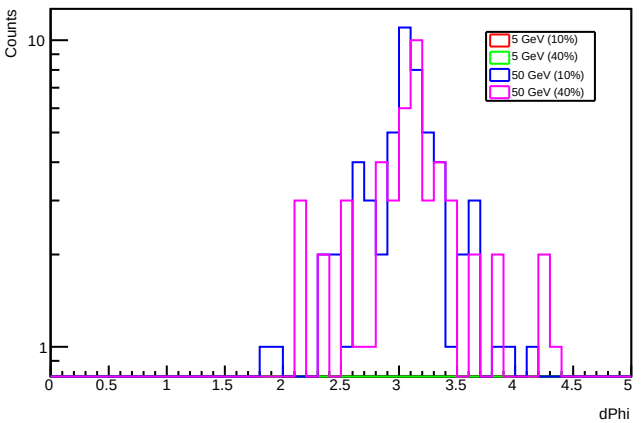
dPhi: reco MET and leading jet: no cuts



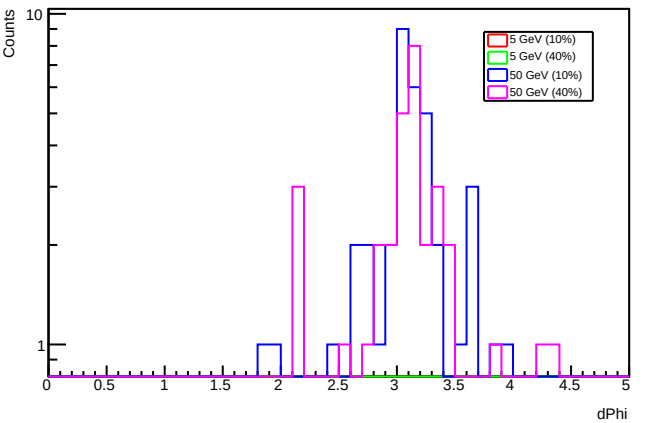
dPhi: reco MET and leading jet: n_jet >=1, j1pt > 30 GeV



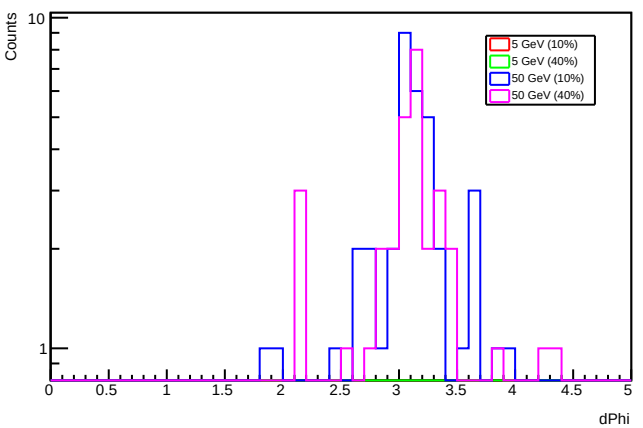
dPhi: reco MET and leading jet: MET > 120 GeV



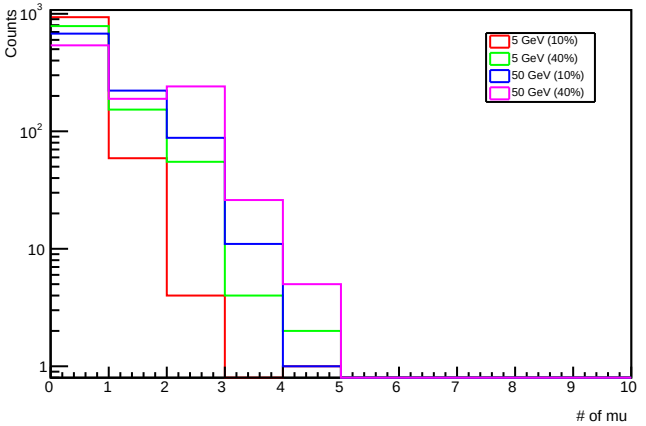
dPhi: reco MET and leading jet: j1pt >120, at most 2 jets w/ pt >30 GeV



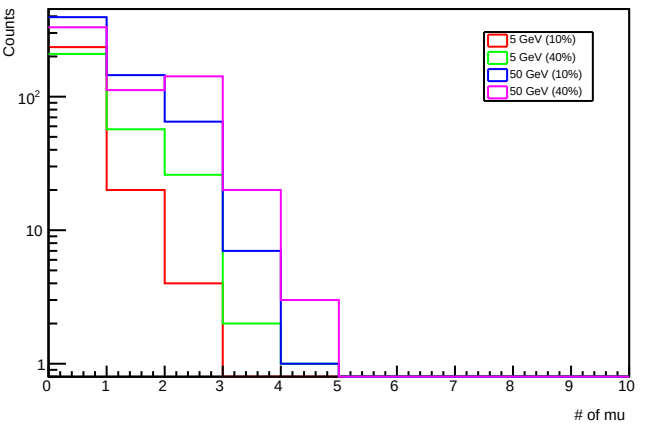
dPhi: reco MET and leading jet: at least 2 mu w/ pt > 2 GeV and eta<2.5



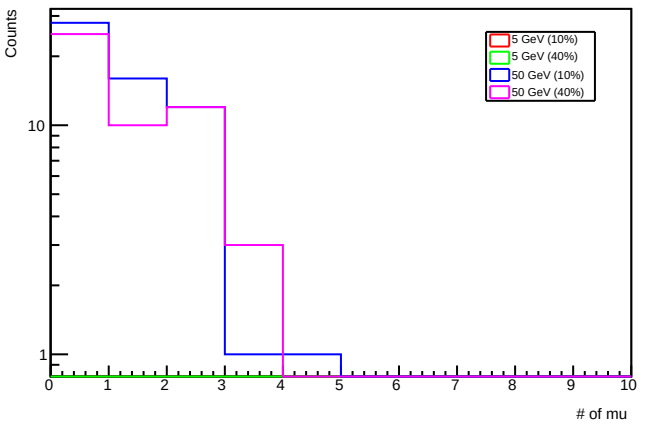
reco number of mu: no cuts



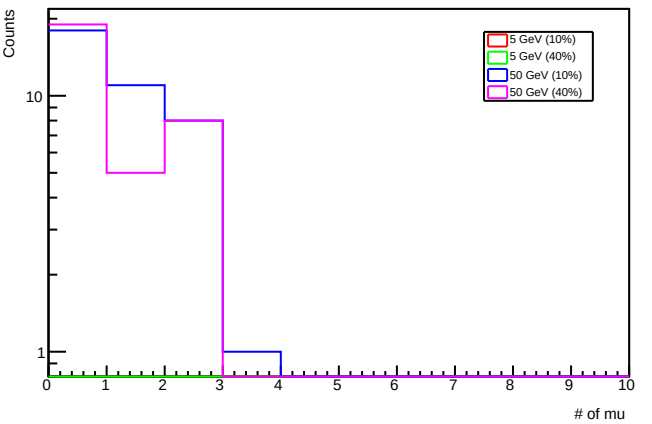
reco number of mu: n_jet >=1, j1pt > 30 GeV



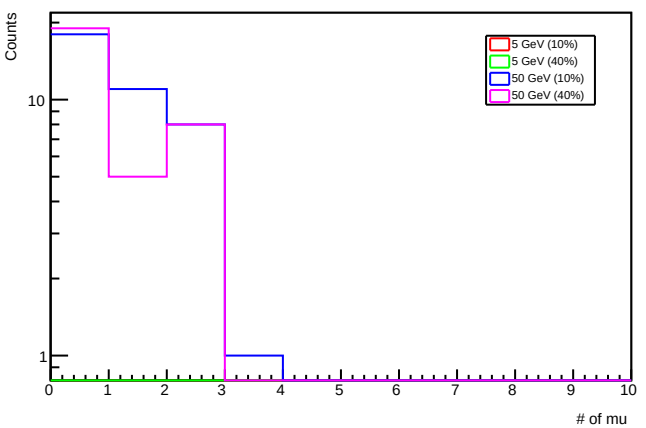
reco number of mu: MET > 120 GeV



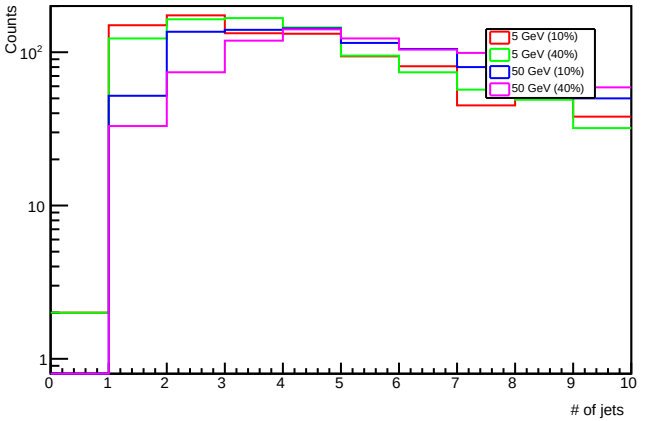
reco number of mu: j1pt >120, at most 2 jets w/ pt >30 GeV



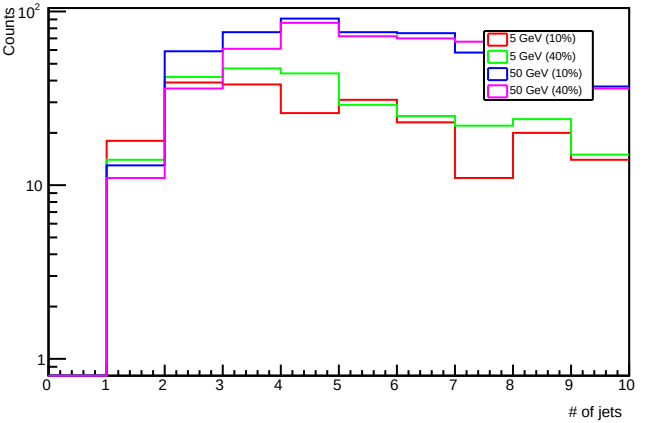
reco number of mu: at least 2 mu w/ pt > 2 GeV and eta<2.5



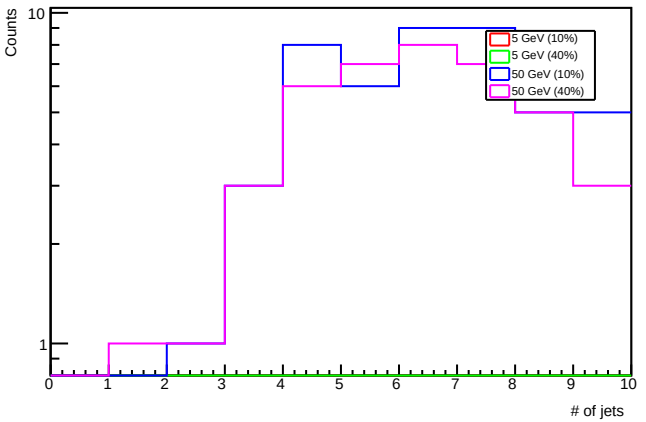
reco number of jets: no cuts



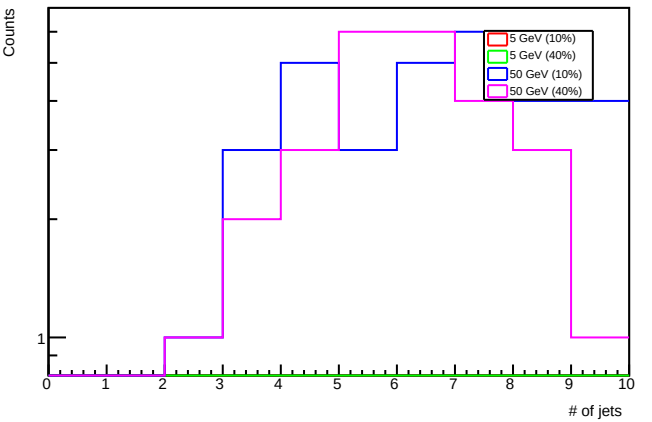
reco number of jets: n_jet >=1, j1pt > 30 GeV



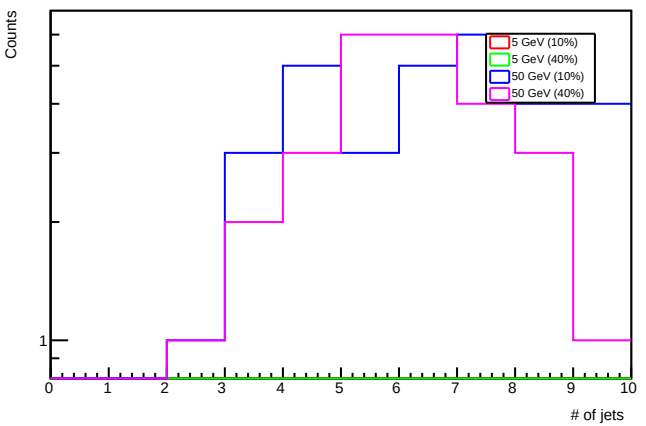
reco number of jets: MET > 120 GeV



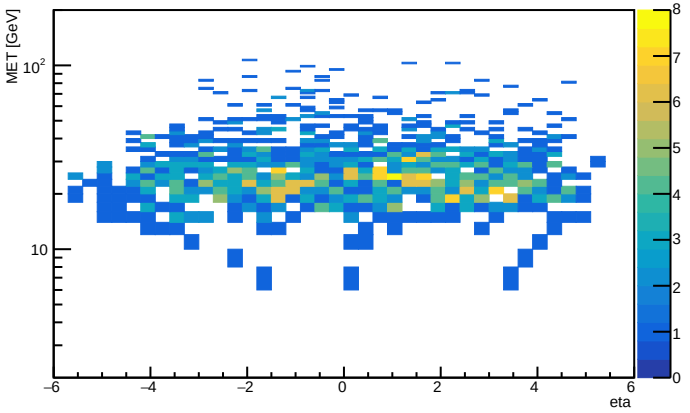
reco number of jets: j1pt >120, at most 2 jets w/ pt >30 GeV



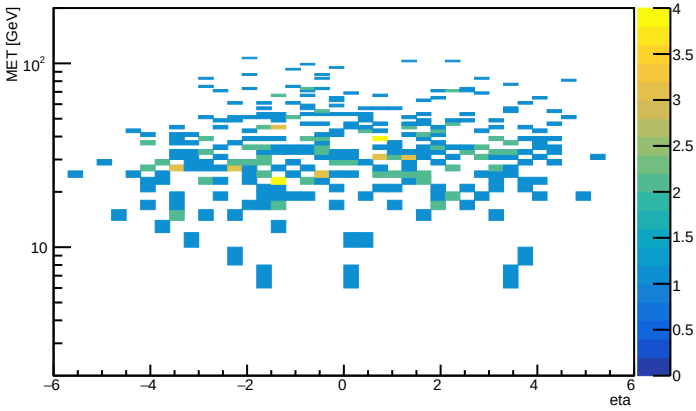
reco number of jets: at least 2 mu w/ pt > 2 GeV and eta<2.5



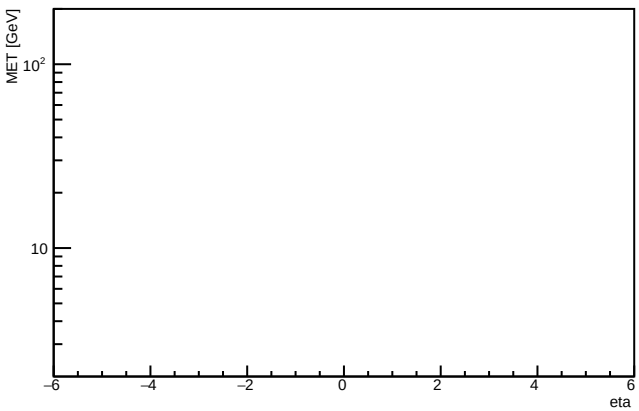
5 GeV (10%) ctau 10cm gen leading Met eta vs pt: no cuts



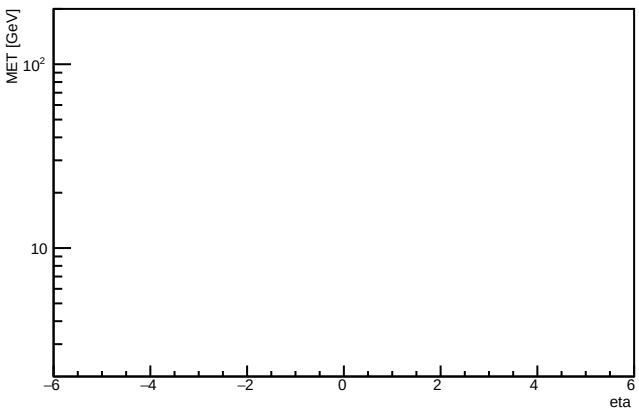
5 GeV (10%) ctau 10cm gen leading Met eta vs pt: n_jet >=1, j1pt > 30 GeV



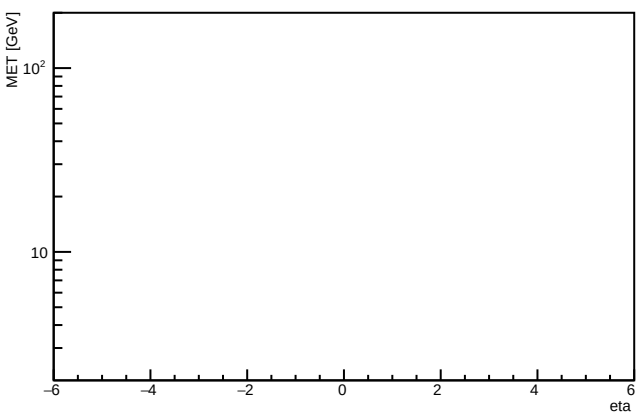
5 GeV (10%) ctau 10cm gen leading Met eta vs pt: MET > 120 GeV



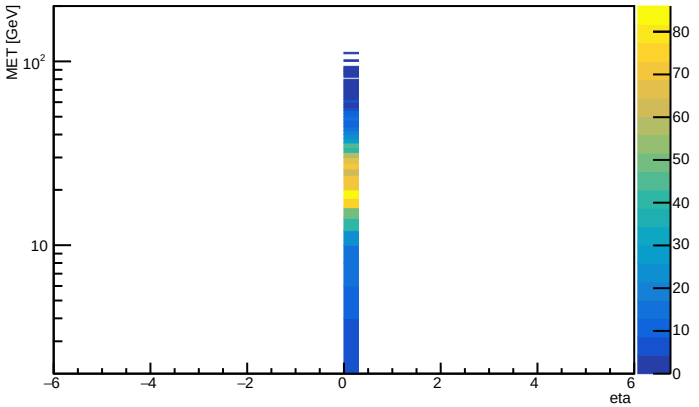
5 GeV (10%) ctau 10cm gen leading Met eta vs pt: j1pt >120, at most 2 jets w/ pt >30 GeV



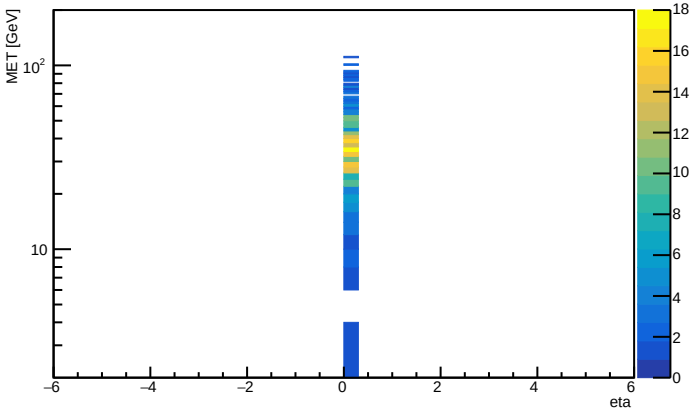
5 GeV (10%) ctau 10cm gen leading Met eta vs pt: at least 2 mu w/ pt > 2 GeV and eta<2.5



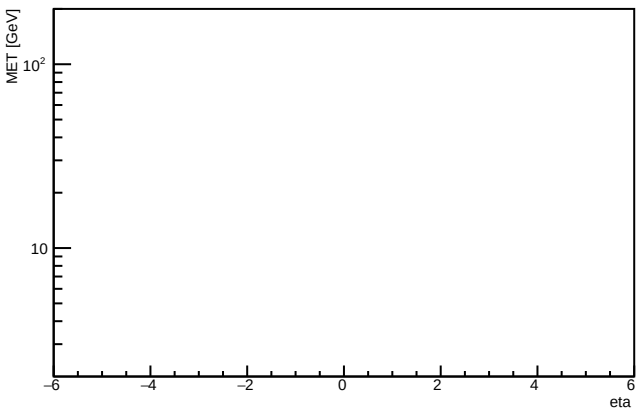
5 GeV (10%) ctau 10cm reco leading Met eta vs pt: no cuts



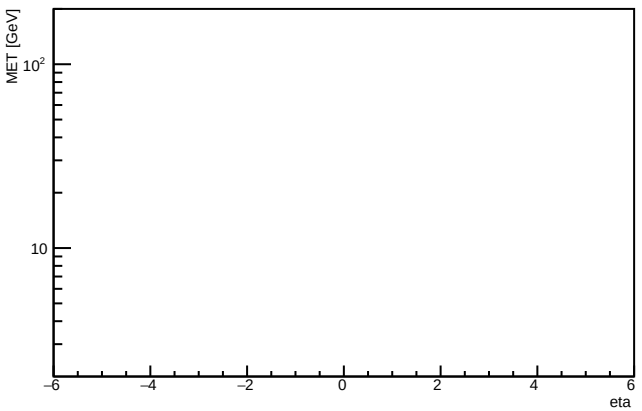
5 GeV (10%) ctau 10cm reco leading Met eta vs pt: n_jet >=1, j1pt > 30 GeV



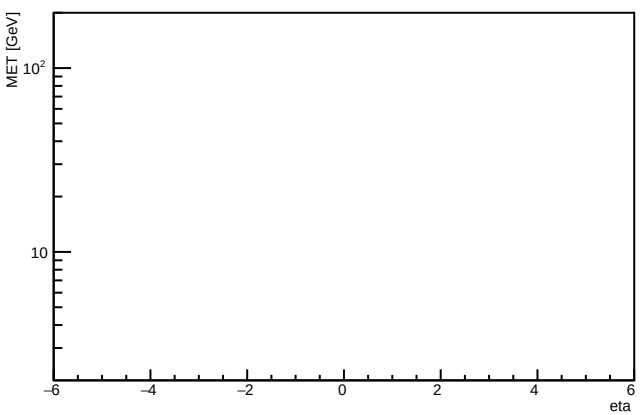
5 GeV (10%) ctau 10cm reco leading Met eta vs pt: MET > 120 GeV



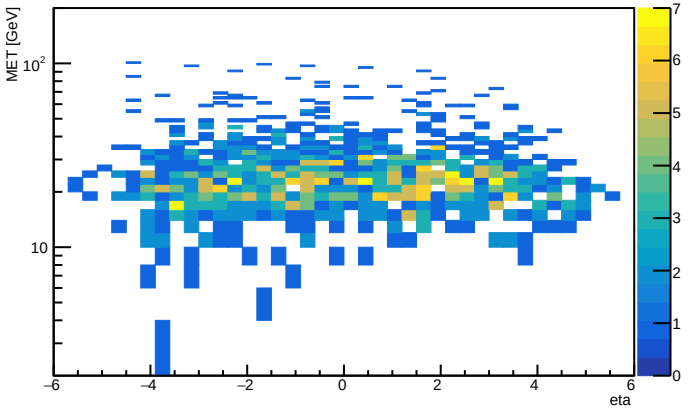
5 GeV (10%) ctau 10cm reco leading Met eta vs pt: j1pt >120, at most 2 jets w/ pt >30 GeV



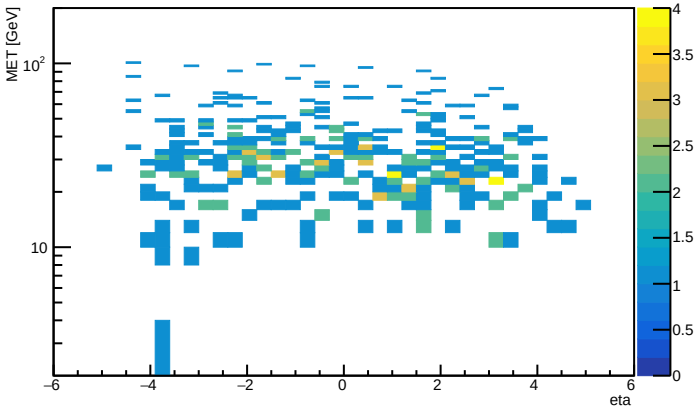
5 GeV (10%) ctau 10cm reco leading Met eta vs pt: at least 2 mu w/ pt > 2 GeV and eta<2.5



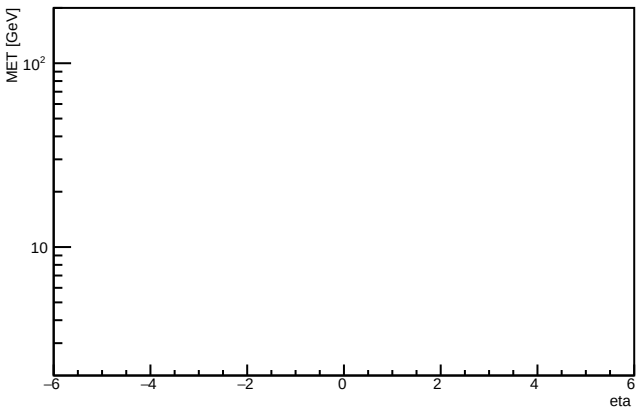
5 GeV (40%) ctau 10cm gen leading Met eta vs pt: no cuts



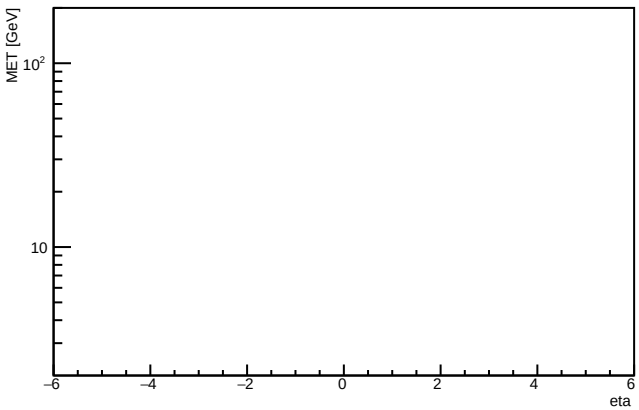
5 GeV (40%) ctau 10cm gen leading Met eta vs pt: n_jet >=1, j1pt > 30 GeV



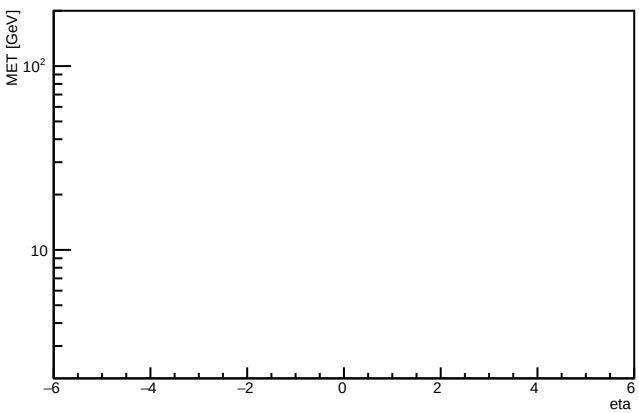
5 GeV (40%) ctau 10cm gen leading Met eta vs pt: MET > 120 GeV

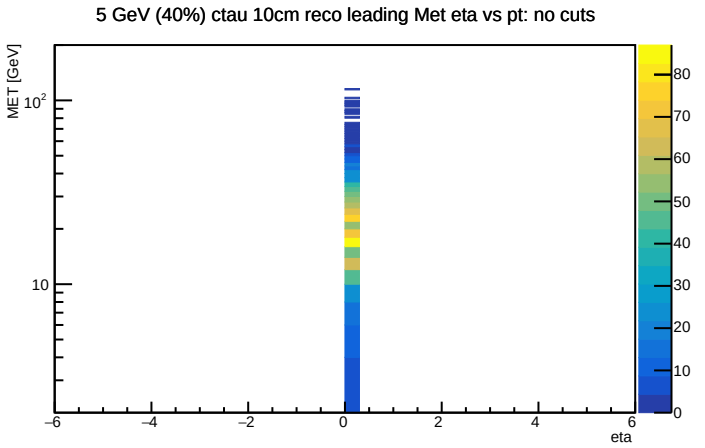


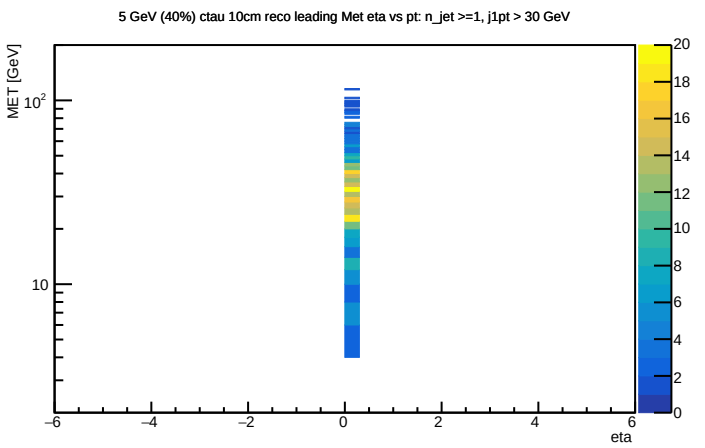
5 GeV (40%) ctau 10cm gen leading Met eta vs pt: j1pt >120, at most 2 jets w/ pt >30 GeV

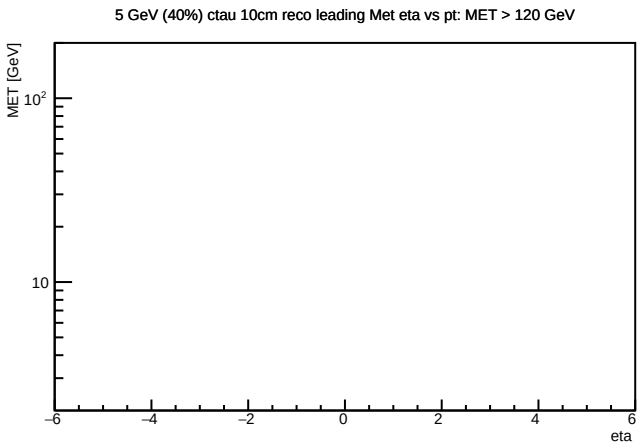


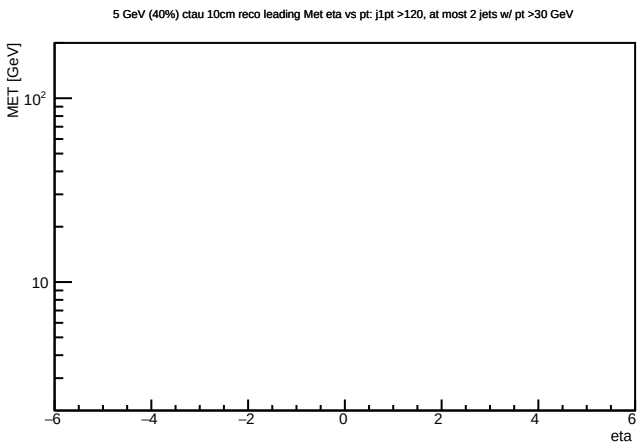
5 GeV (40%) ctau 10cm gen leading Met eta vs pt: at least 2 mu w/ pt > 2 GeV and eta<2.5

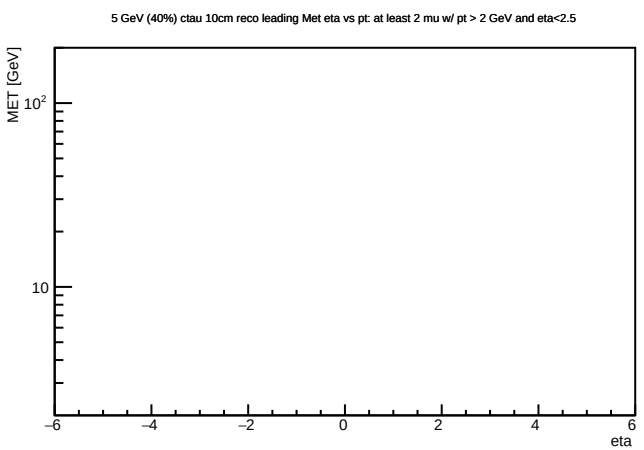


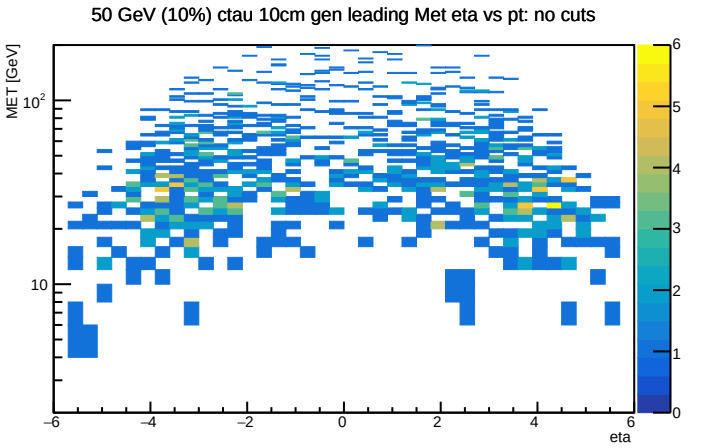

5 GeV (40%) ctau 10cm reco leading Met eta vs pt: no cuts
MET [GeV]
10^2
10
−6
−4
−2
0
2
4
6
eta
80
70
60
50
40
30
20
10
0

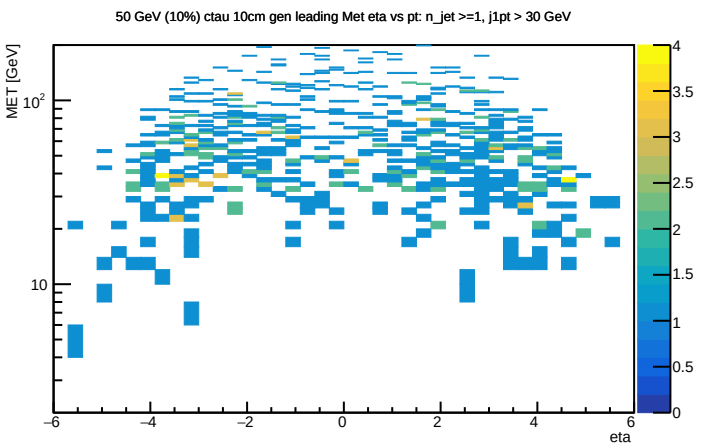

5 GeV (40%) ctau 10cm reco leading Met eta vs pt: n_jet >=1, j1pt > 30 GeV
MET [GeV]
10^2
10
−6
−4
−2
0
2
4
6
eta
20
18
16
14
12
10
8
6
4
2
0

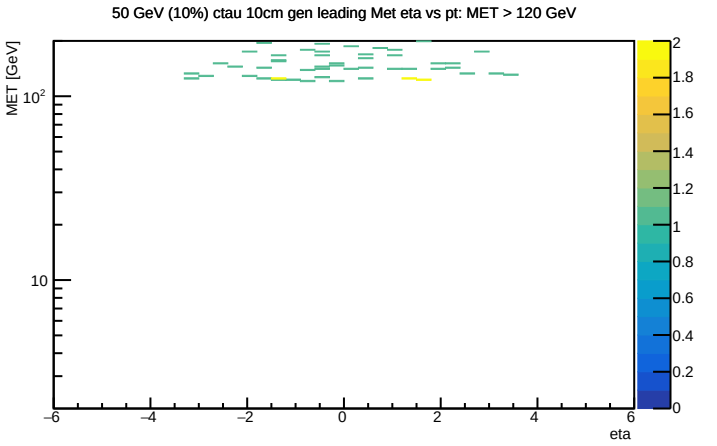

5 GeV (40%) ctau 10cm reco leading Met eta vs pt: MET > 120 GeV
MET [GeV]
10^2
10
−6
−4
−2
0
2
4
6
eta

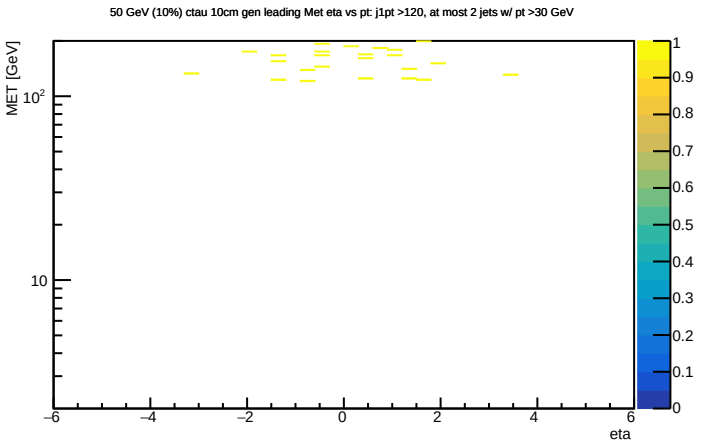

5 GeV (40%) ctau 10cm reco leading Met eta vs pt: j1pt >120, at most 2 jets w/ pt >30 GeV
MET [GeV]
10^2
10
−6
−4
−2
0
2
4
6
eta

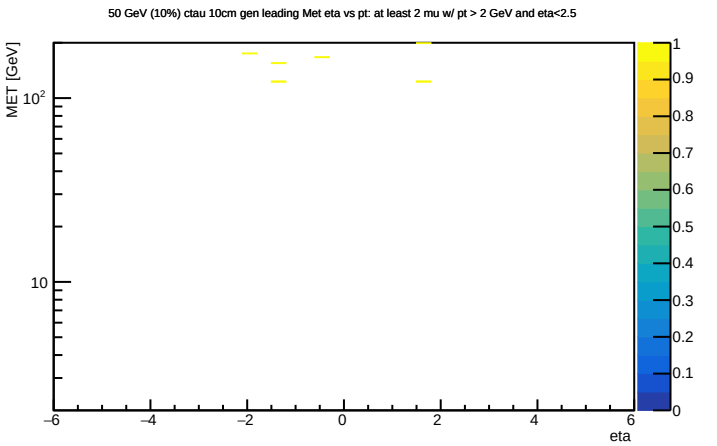

5 GeV (40%) ctau 10cm reco leading Met eta vs pt: at least 2 mu w/ pt > 2 GeV and eta<2.5
MET [GeV]
10^2
10
−6
−4
−2
0
2
4
6
eta

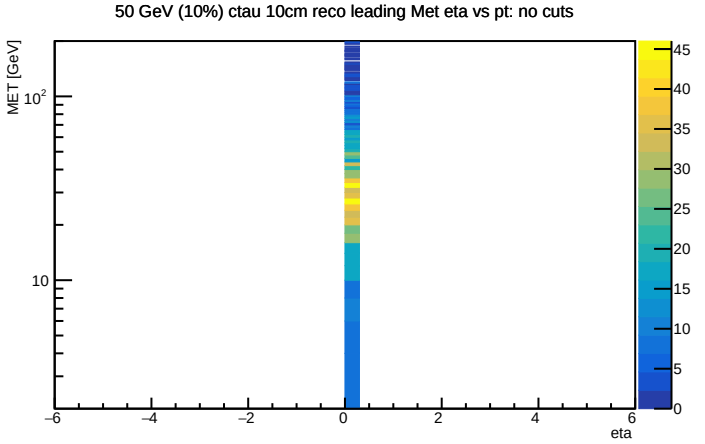

50 GeV (10%) ctau 10cm gen leading Met eta vs pt: no cuts
MET [GeV]
eta

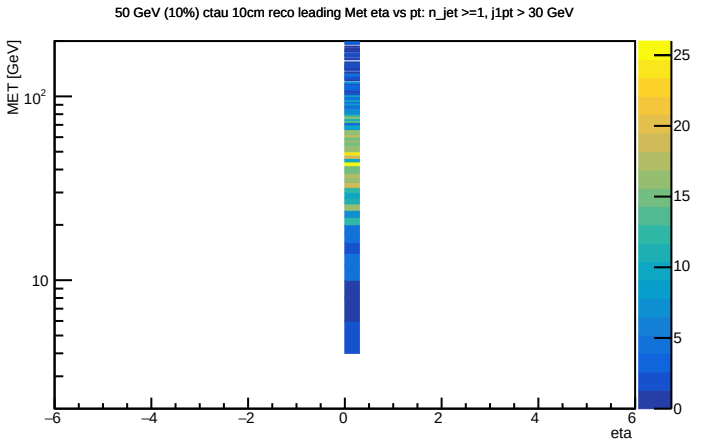

50 GeV (10%) ctau 10cm gen leading Met eta vs pt: n_jet >=1, j1pt > 30 GeV
MET [GeV]
eta

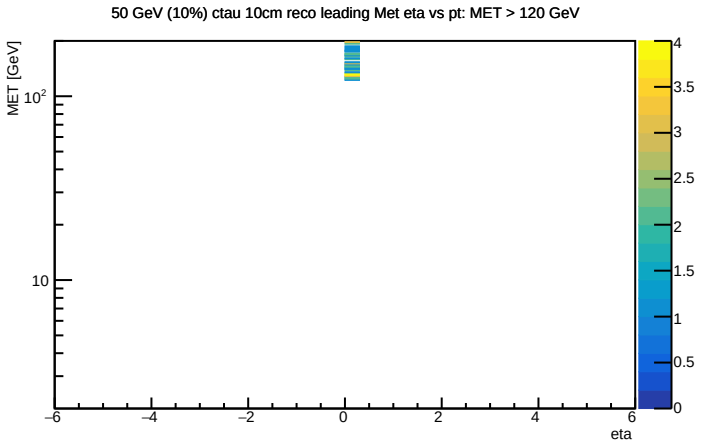

50 GeV (10%) ctau 10cm gen leading Met eta vs pt: MET > 120 GeV
MET [GeV]
eta

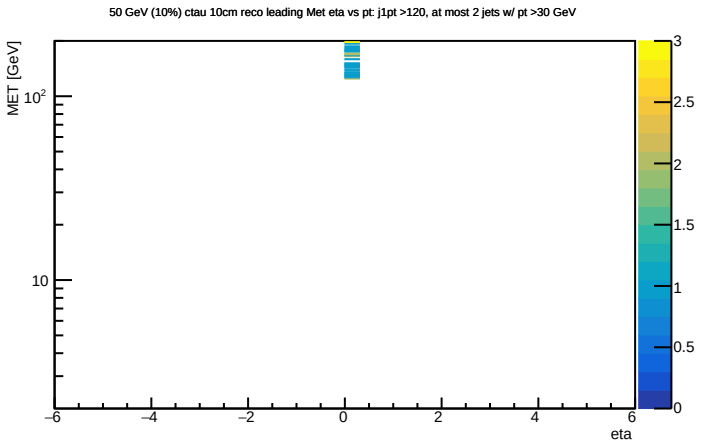

50 GeV (10%) ctau 10cm gen leading Met eta vs pt: j1pt >120, at most 2 jets w/ pt >30 GeV
MET [GeV]
eta

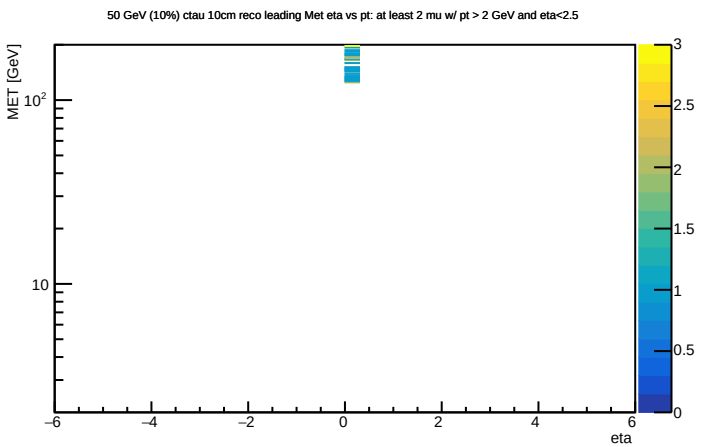

50 GeV (10%) ctau 10cm gen leading Met eta vs pt: at least 2 mu w/ pt > 2 GeV and eta<2.5
MET [GeV]
eta

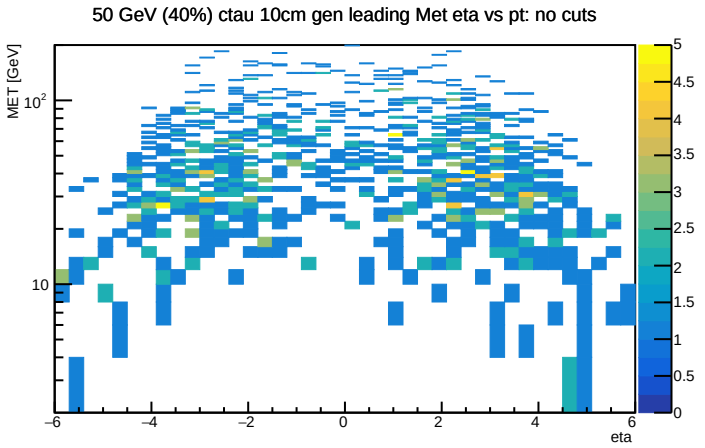

50 GeV (10%) ctau 10cm reco leading Met eta vs pt: no cuts
MET [GeV]
eta

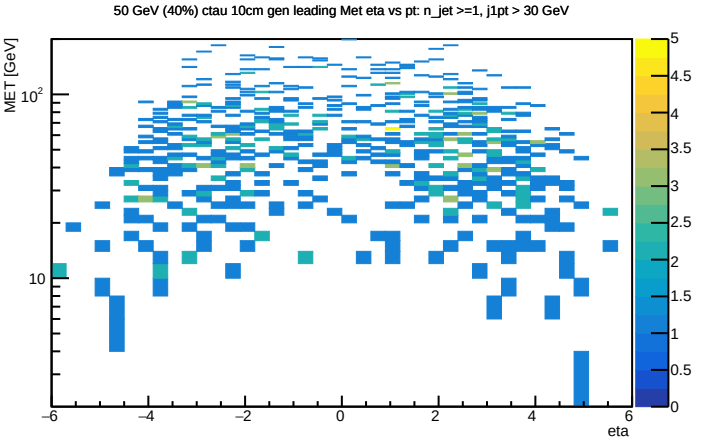

50 GeV (10%) ctau 10cm reco leading Met eta vs pt: n_jet >=1, j1pt > 30 GeV
MET [GeV]
eta

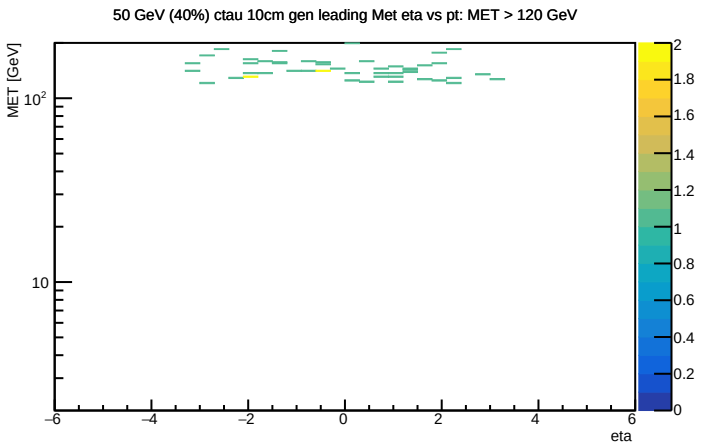

50 GeV (10%) ctau 10cm reco leading Met eta vs pt: MET > 120 GeV
MET [GeV]
eta

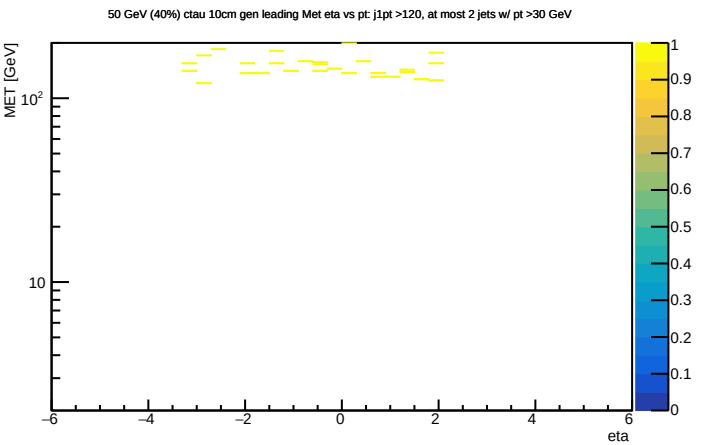

50 GeV (10%) ctau 10cm reco leading Met eta vs pt: j1pt >120, at most 2 jets w/ pt >30 GeV
MET [GeV]
eta

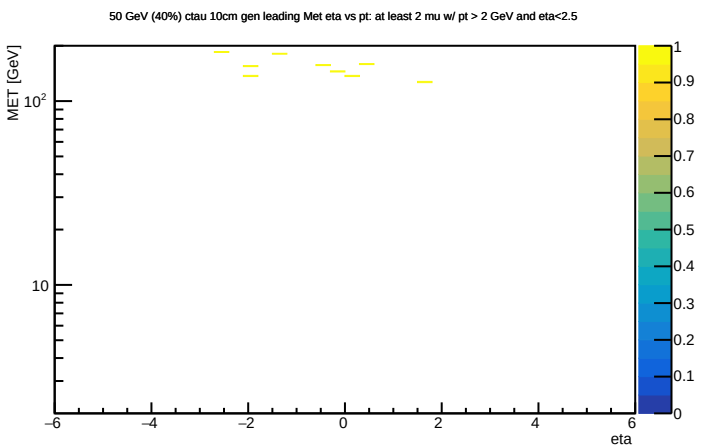

50 GeV (10%) ctau 10cm reco leading Met eta vs pt: at least 2 mu w/ pt > 2 GeV and eta<2.5
MET [GeV]
eta

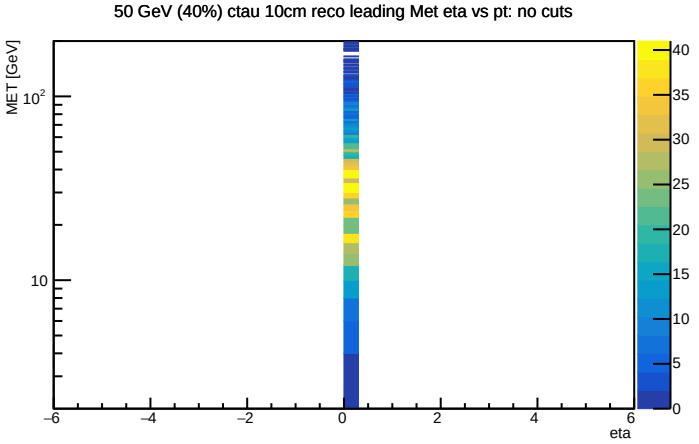

50 GeV (40%) ctau 10cm gen leading Met eta vs pt: no cuts
MET [GeV]
eta

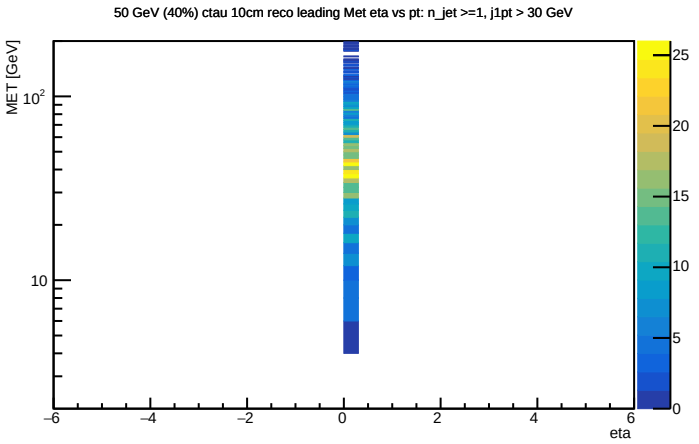

50 GeV (40%) ctau 10cm gen leading Met eta vs pt: n_jet >=1, j1pt > 30 GeV
MET [GeV]
eta

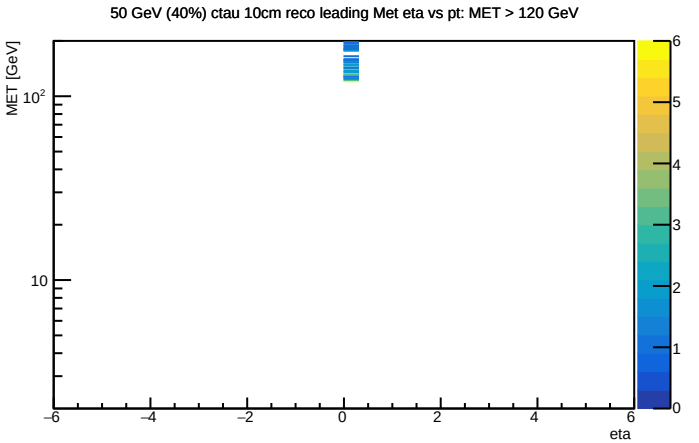

50 GeV (40%) ctau 10cm gen leading Met eta vs pt: MET > 120 GeV
MET [GeV]
eta

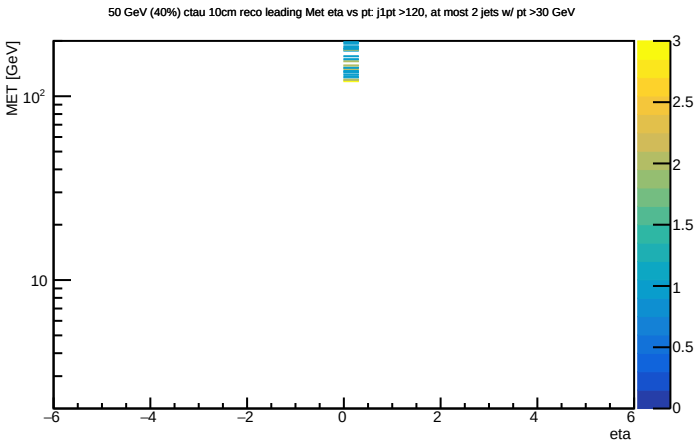

50 GeV (40%) ctau 10cm gen leading Met eta vs pt: j1pt >120, at most 2 jets w/ pt >30 GeV
MET [GeV]
eta

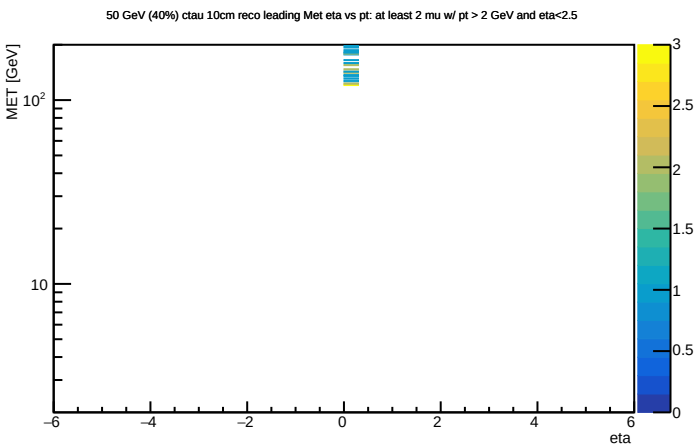

50 GeV (40%) ctau 10cm gen leading Met eta vs pt: at least 2 mu w/ pt > 2 GeV and eta<2.5
MET [GeV]
eta


50 GeV (40%) ctau 10cm reco leading Met eta vs pt: no cuts
MET [GeV]
eta

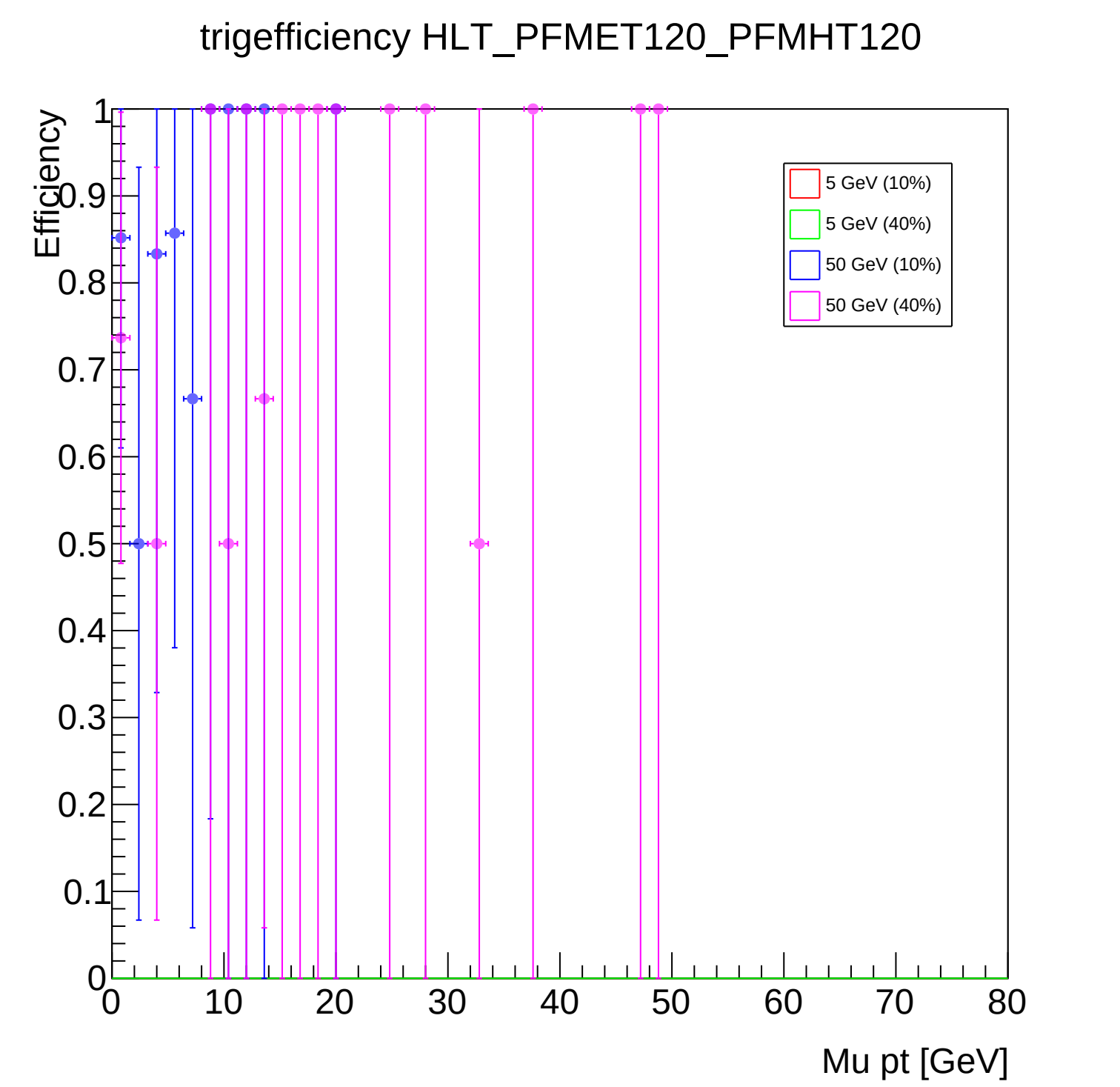

50 GeV (40%) ctau 10cm reco leading Met eta vs pt: n_jet >=1, j1pt > 30 GeV
MET [GeV]
eta

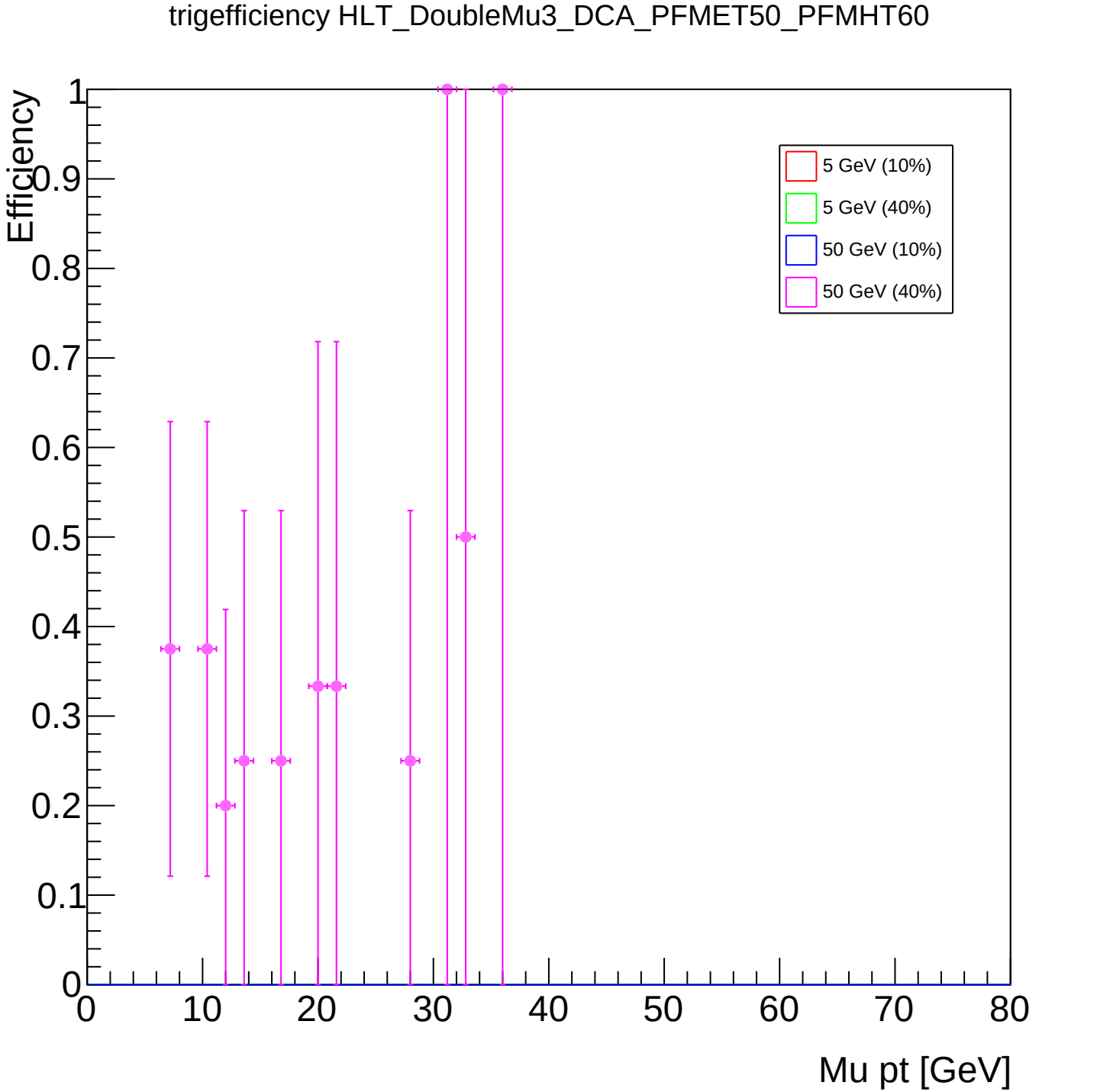

50 GeV (40%) ctau 10cm reco leading Met eta vs pt: MET > 120 GeV
MET [GeV]
eta

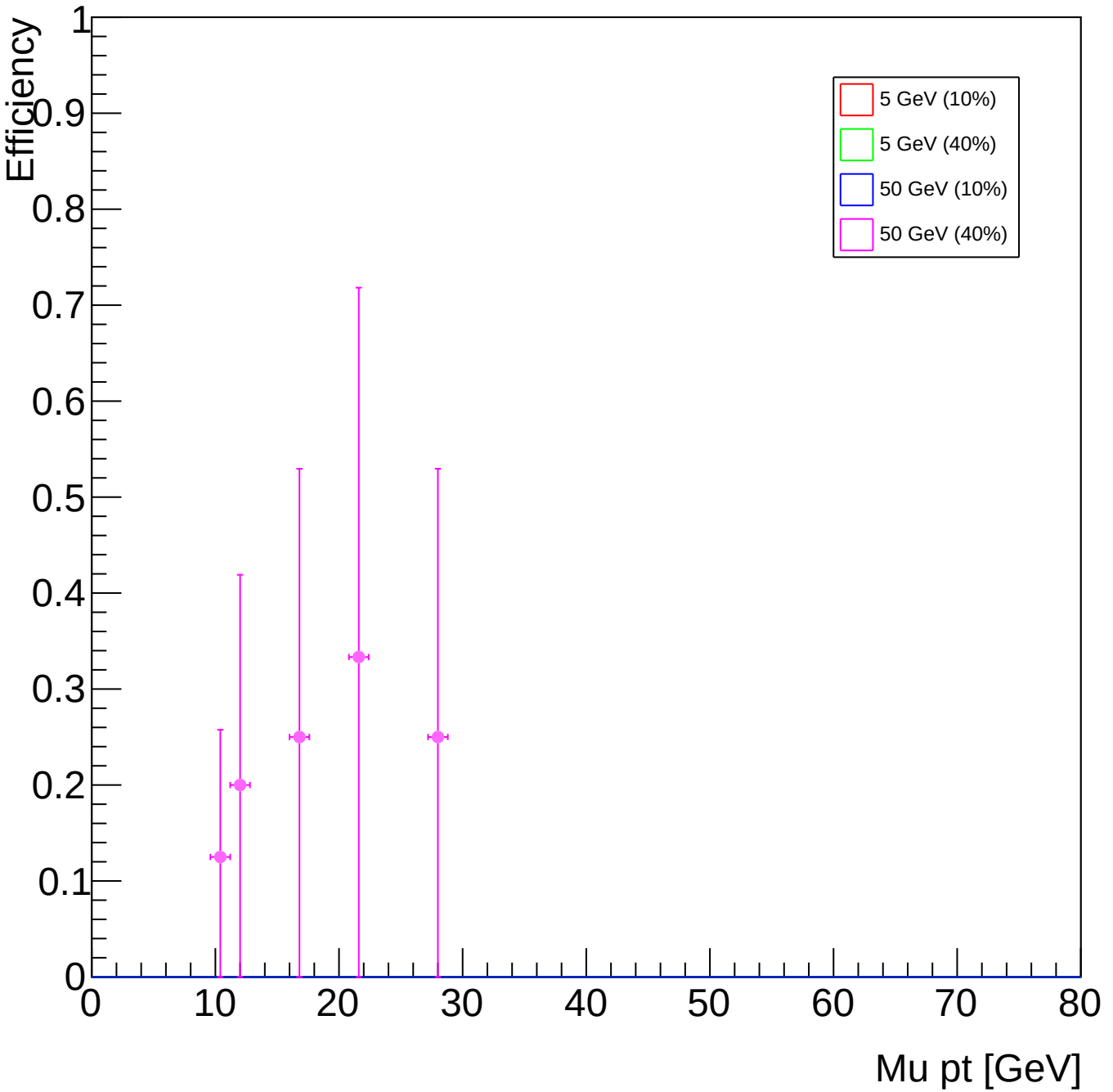

50 GeV (40%) ctau 10cm reco leading Met eta vs pt: j1pt >120, at most 2 jets w/ pt >30 GeV
MET [GeV]
eta

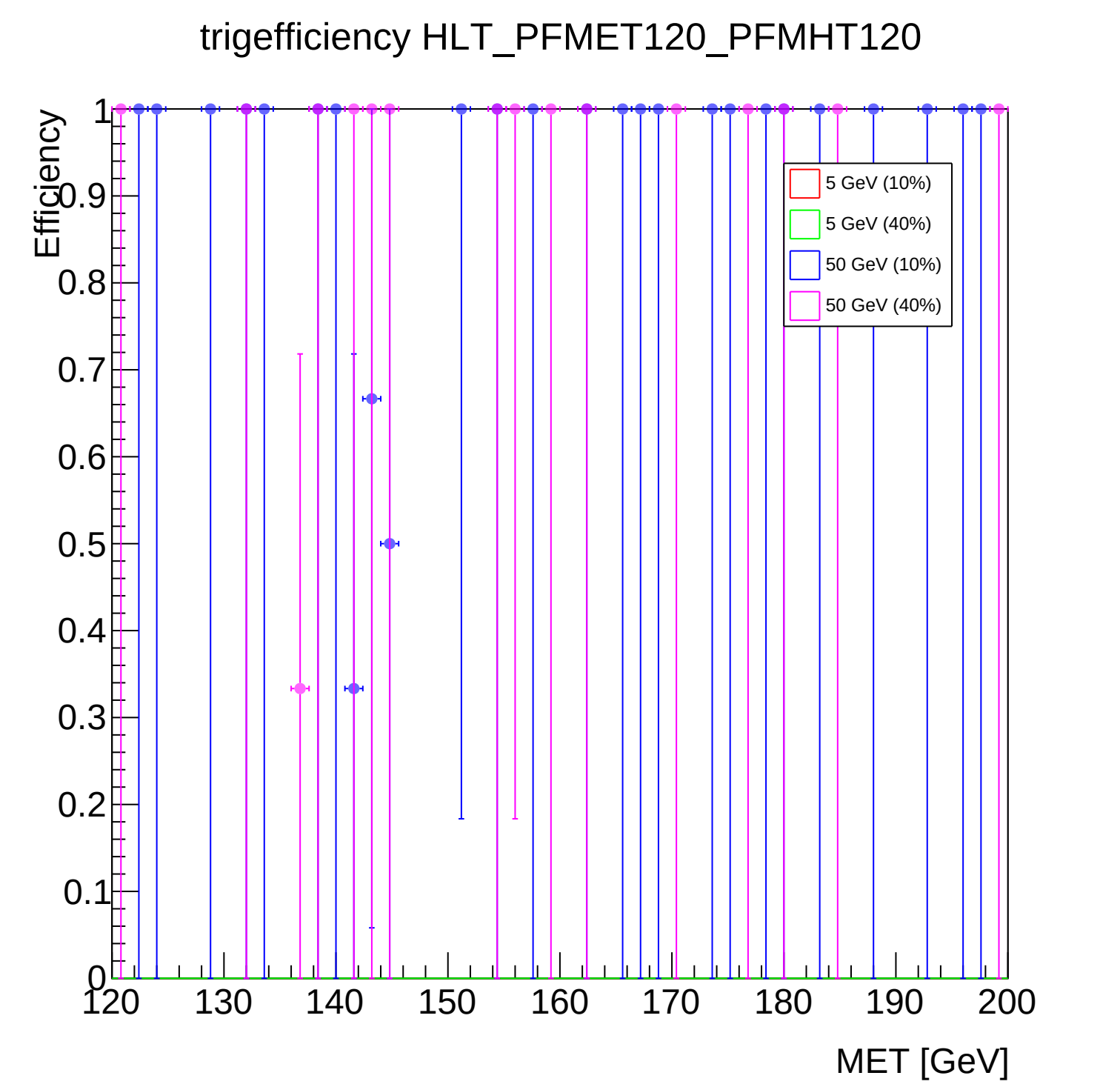

50 GeV (40%) ctau 10cm reco leading Met eta vs pt: at least 2 mu w/ pt > 2 GeV and eta<2.5
MET [GeV]
eta

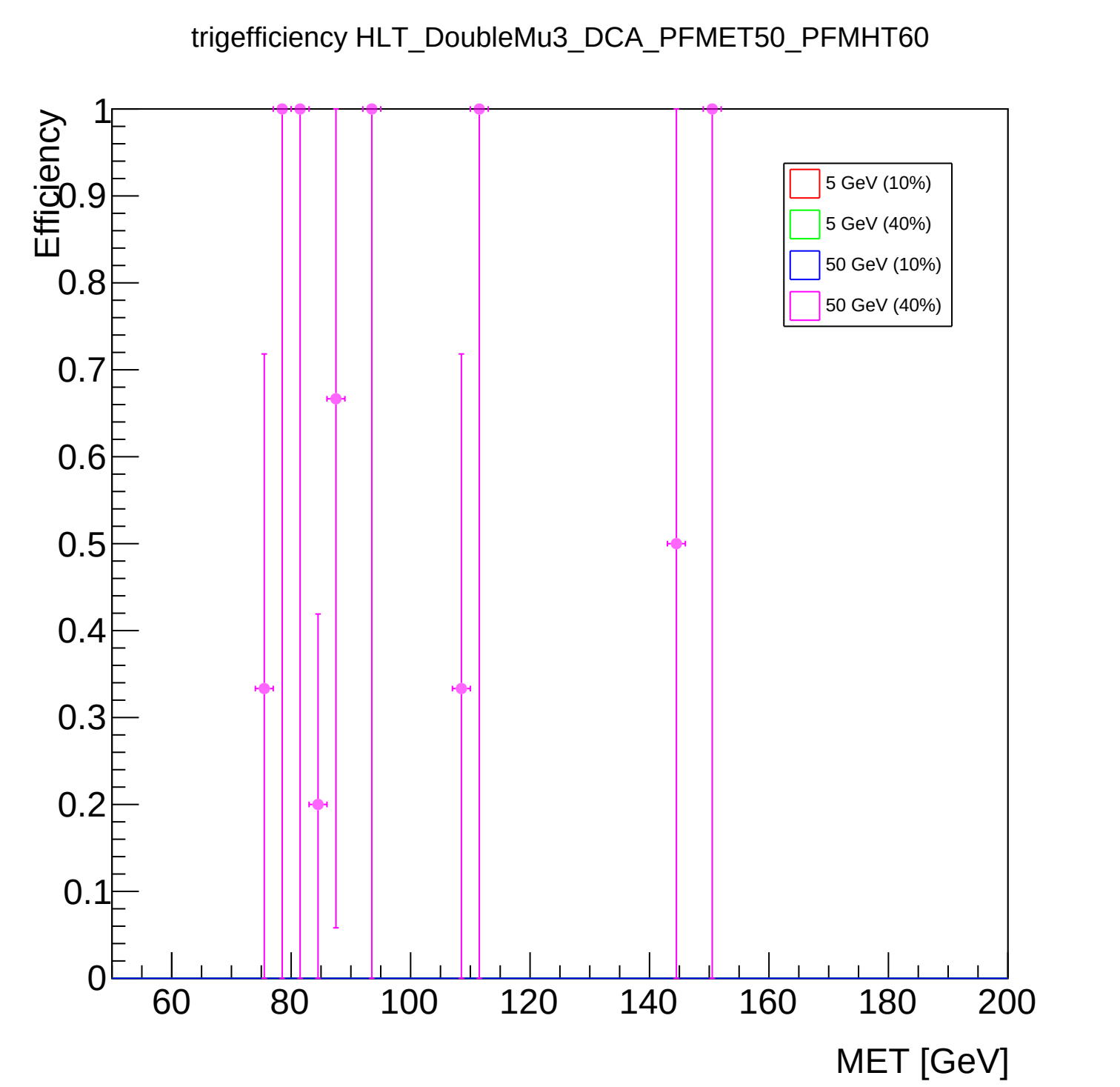
efficiencies

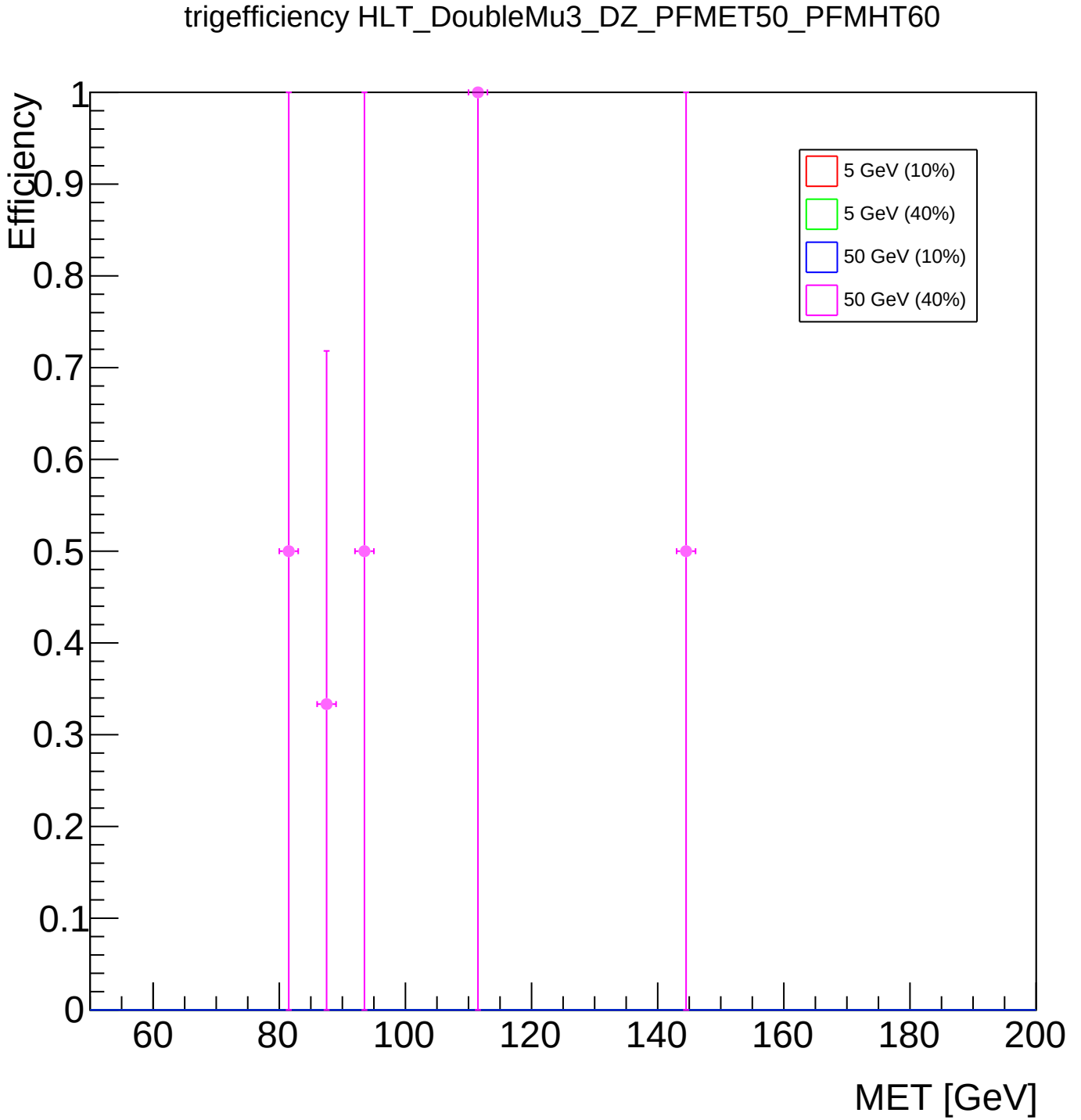

trigefficiency HLT_PFMET120_PFMHT120
Efficiency
Mu pt [GeV]
5 GeV (10%)
5 GeV (40%)
50 GeV (10%)
50 GeV (40%)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
0
10
20
30
40
50
60
70
80

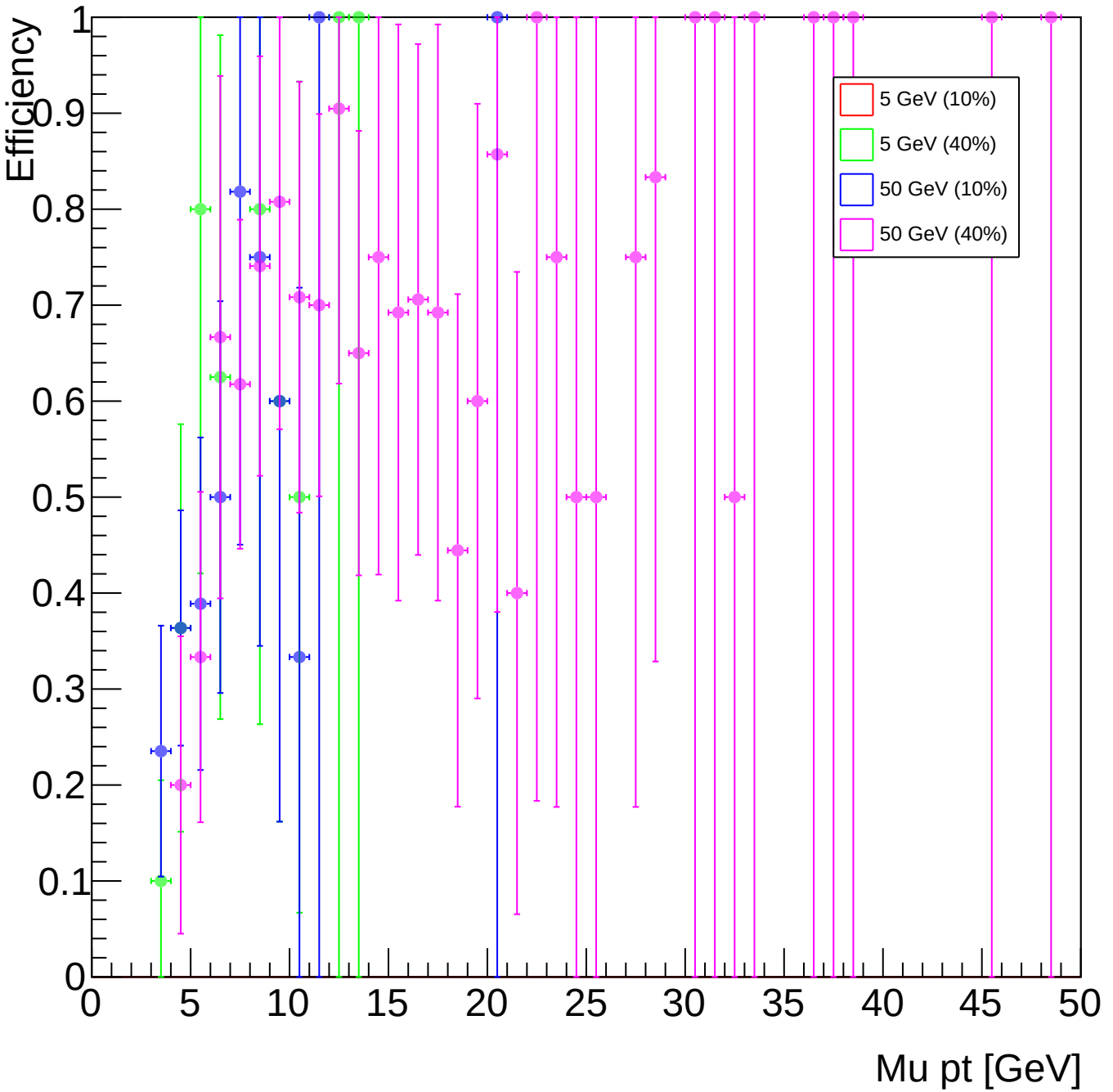

trigefficiency HLT_DoubleMu3_DCA_PFMET50_PFMHT60
Efficiency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
10
20
30
40
50
60
70
80
Mu pt [GeV]
5 GeV (10%)
5 GeV (40%)
50 GeV (10%)
50 GeV (40%)

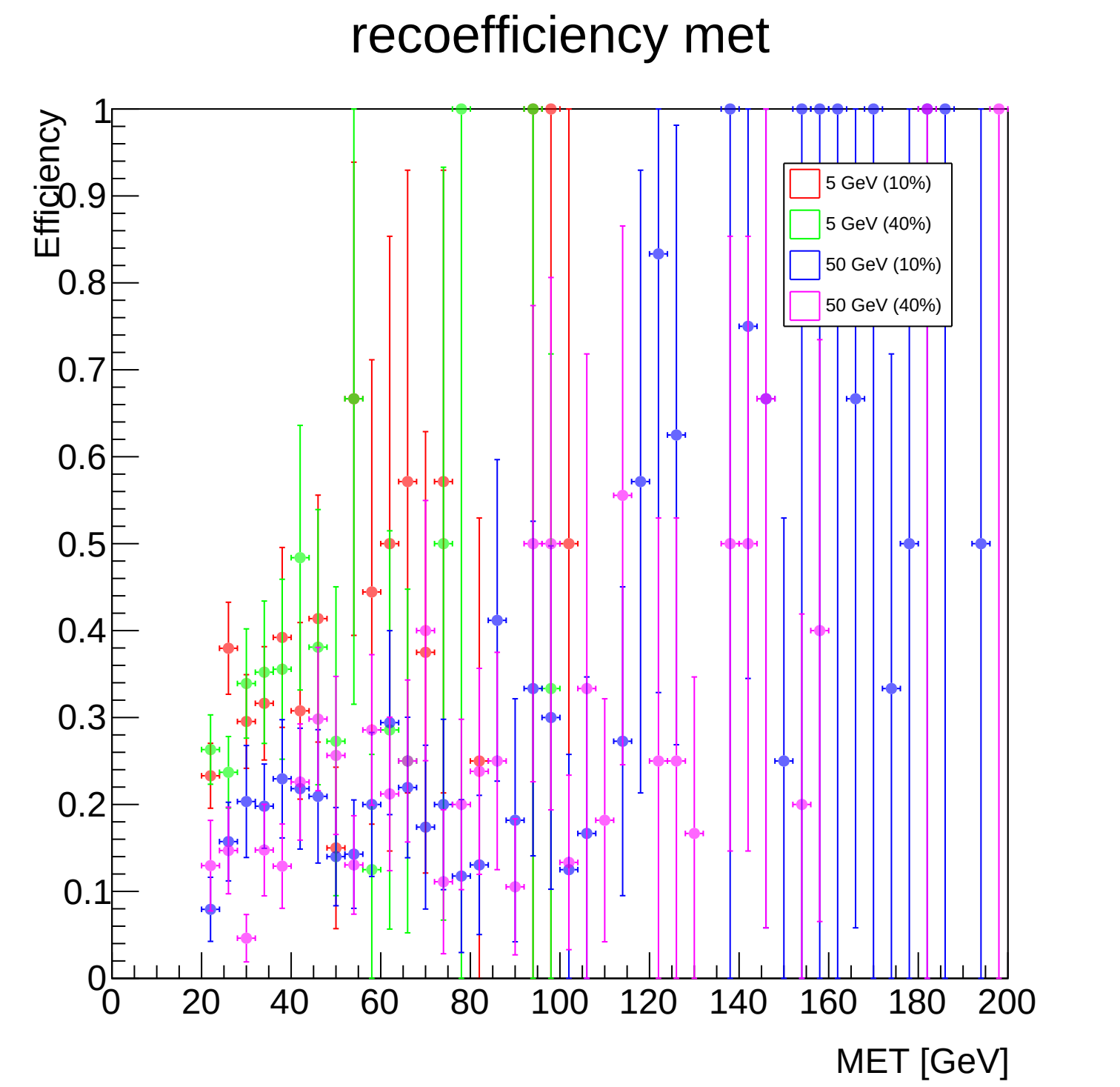

trigefficiency HLT_DoubleMu3_DZ_PFMET50_PFMHT60
Efficiency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
10
20
30
40
50
60
70
80
Mu pt [GeV]
5 GeV (10%)
5 GeV (40%)
50 GeV (10%)
50 GeV (40%)

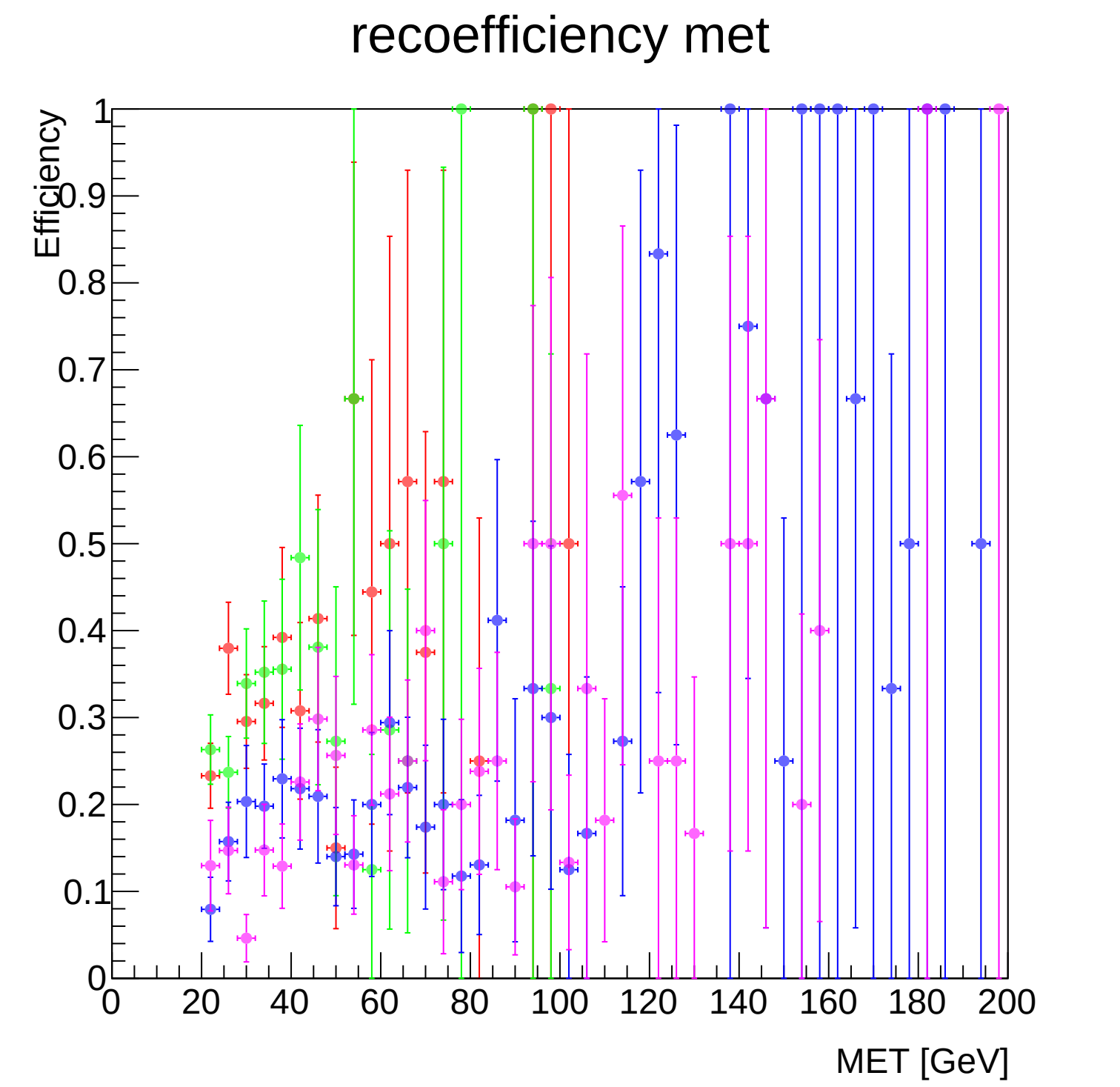

trigefficiency HLT_PFMET120_PFMHT120
Efficiency
MET [GeV]
5 GeV (10%)
5 GeV (40%)
50 GeV (10%)
50 GeV (40%)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
120
130
140
150
160
170
180
190
200


trigefficiency HLT_DoubleMu3_DCA_PFMET50_PFMHT60
Efficiency
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]
5 GeV (10%)
5 GeV (40%)
50 GeV (10%)
50 GeV (40%)


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]
5 GeV (10%)
5 GeV (40%)
50 GeV (10%)
50 GeV (40%)


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


recoefficiency met
Efficiency
MET [GeV]
5 GeV (10%)
5 GeV (40%)
50 GeV (10%)
50 GeV (40%)
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]