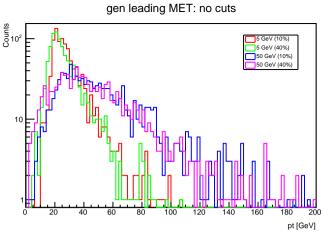
## ctau 100cm

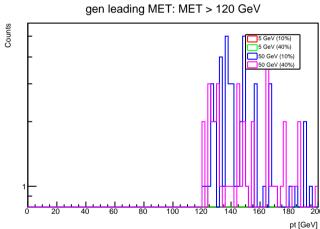
nevents 5 GeV (10%): 1000(c1:371,c2:3,c3:6,c4:2)

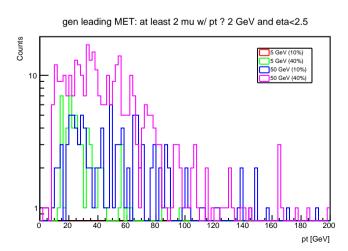
nevents 5 GeV (40%): 1000(c1:371,c2:1,c3:1,c4:61)

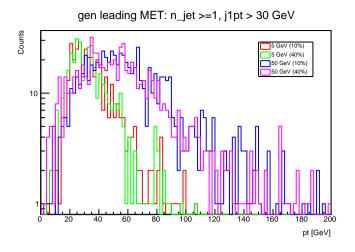
nevents 50 GeV (10%): 1000(c1:723,c2:60,c3:62,c4:120)

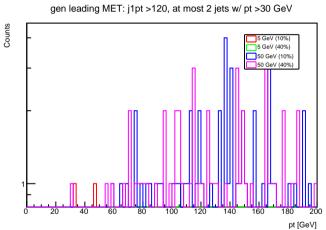
nevents 50 GeV (40%): 1000(c1:704,c2:48,c3:59,c4:348)

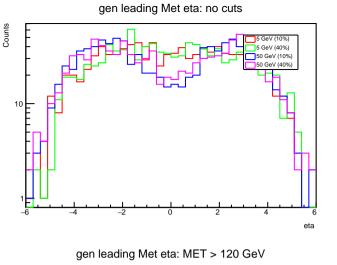


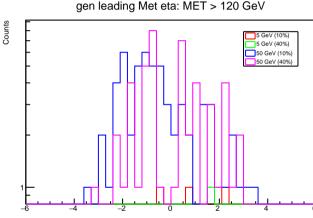


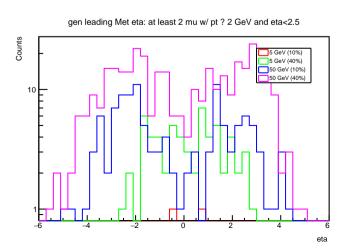


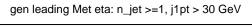


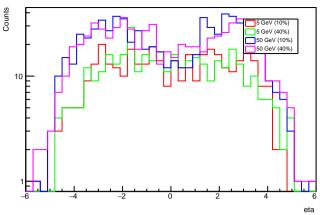




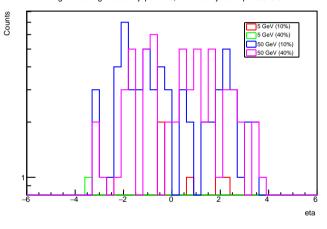


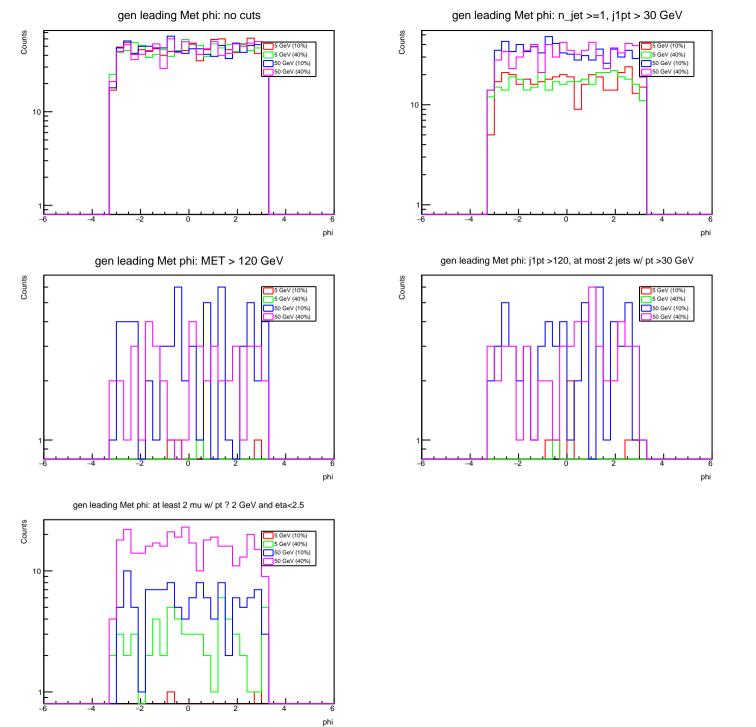


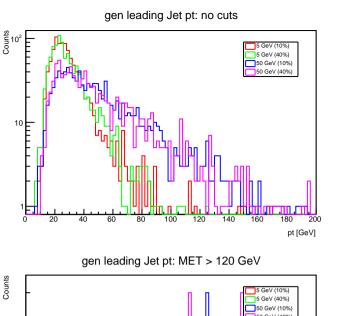


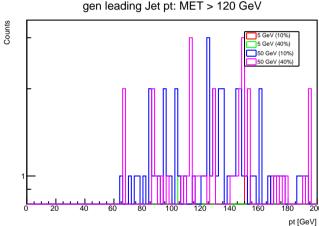


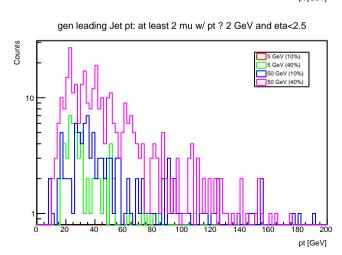
gen leading Met eta: j1pt >120, at most 2 jets w/ pt >30 GeV

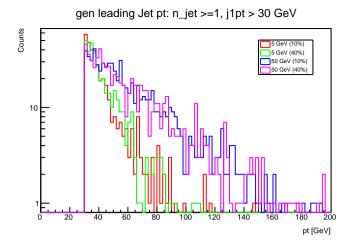


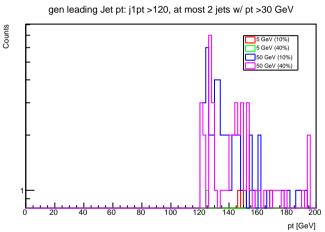


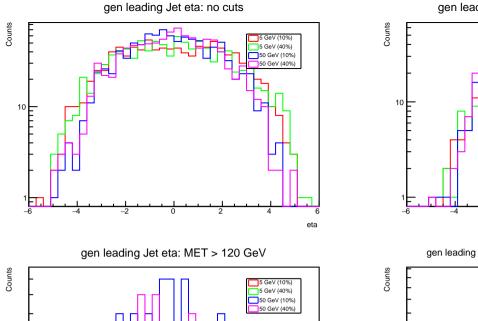


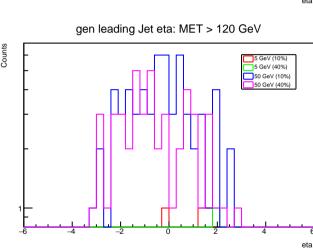


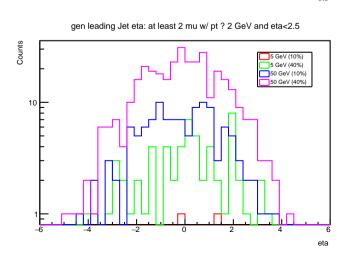


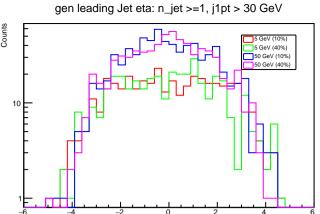




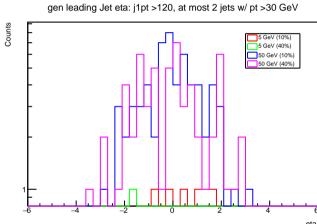


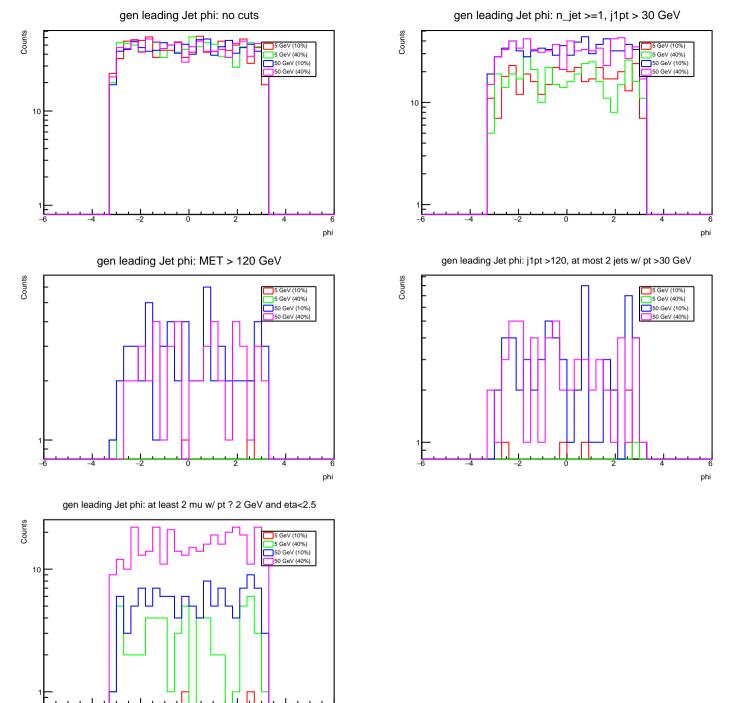




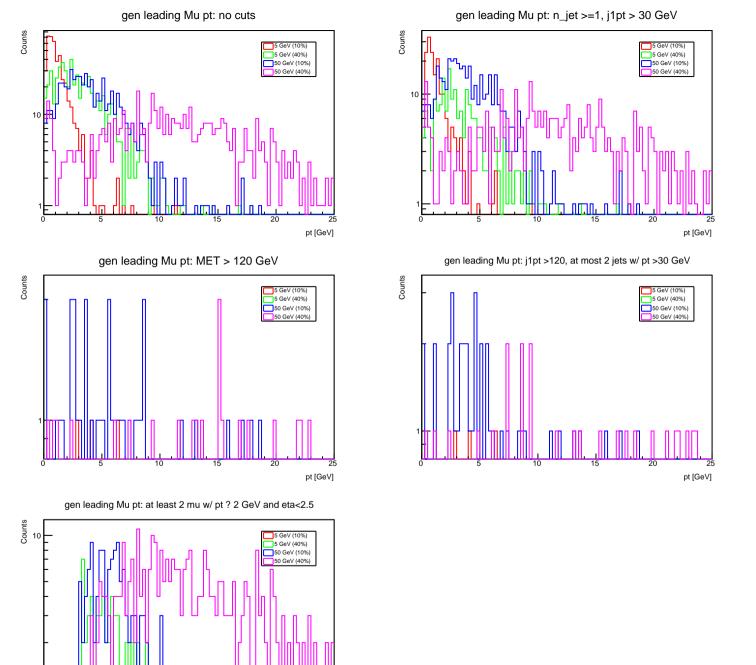


eta

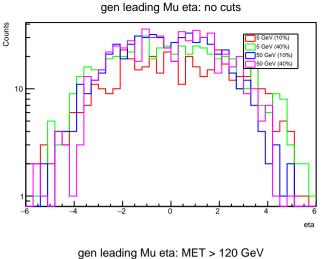


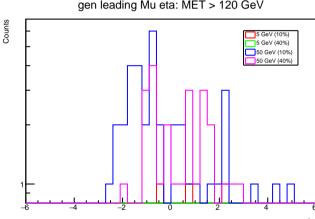


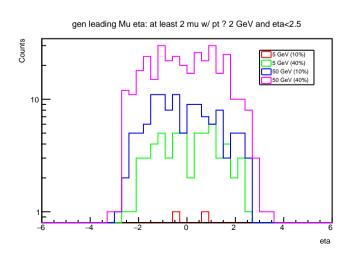
phi

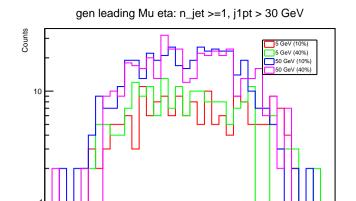


pt [GeV]

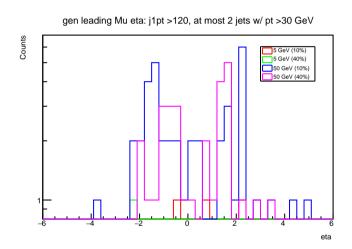


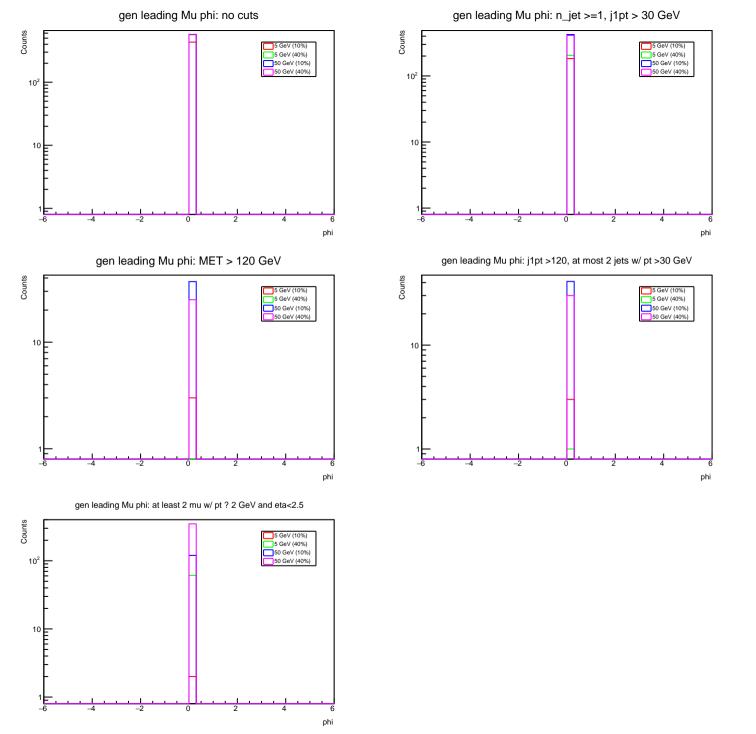


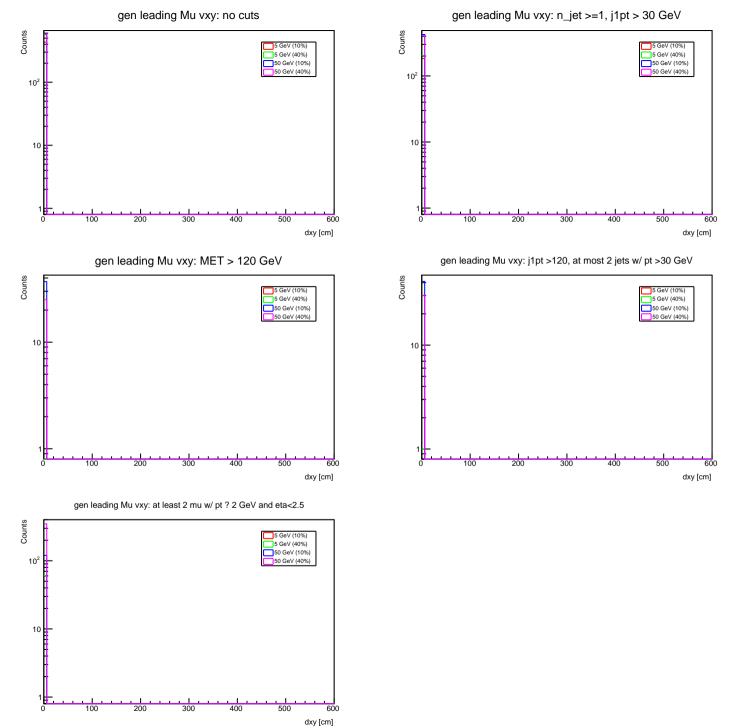


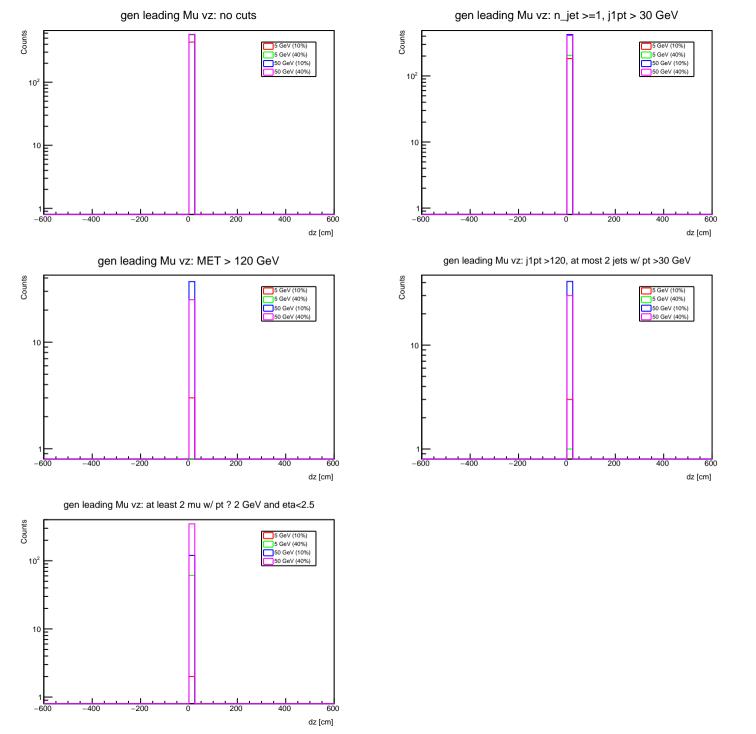


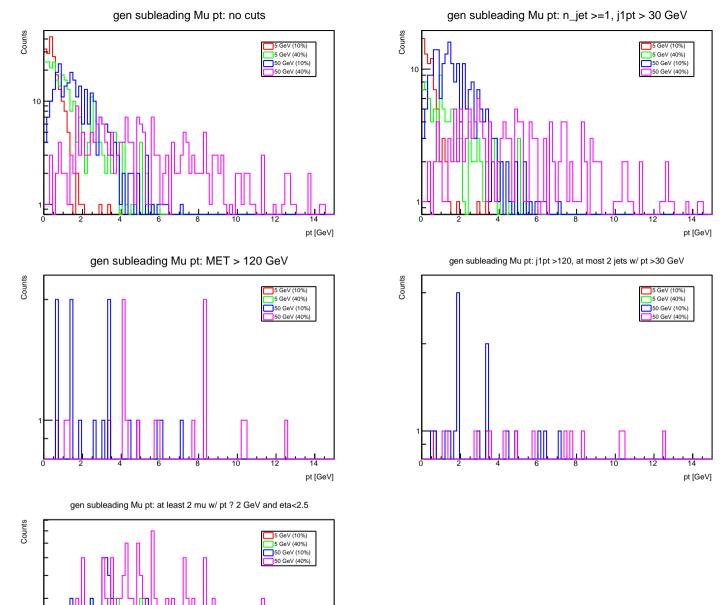
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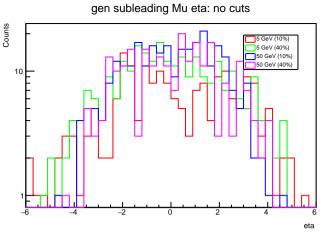


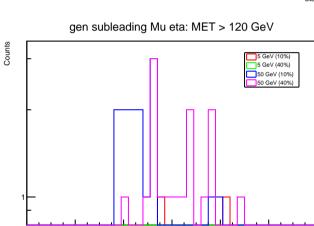


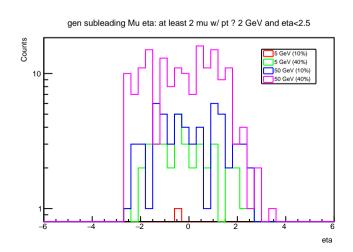




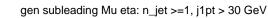
pt [GeV]

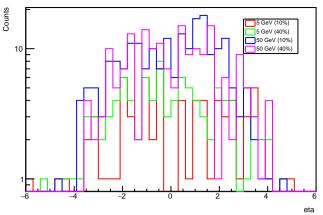




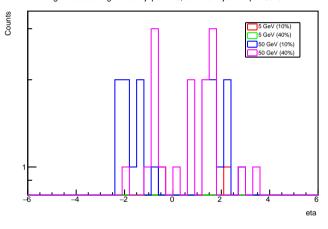


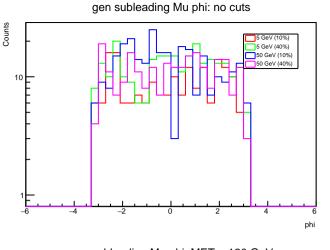
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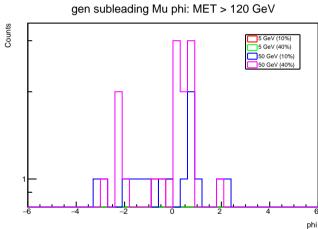


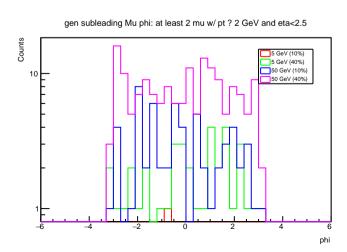


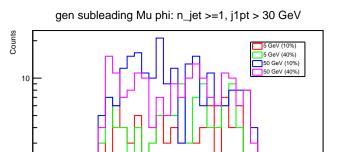
gen subleading Mu eta: j1pt >120, at most 2 jets w/ pt >30 GeV

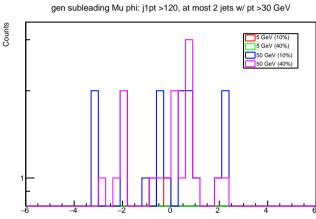




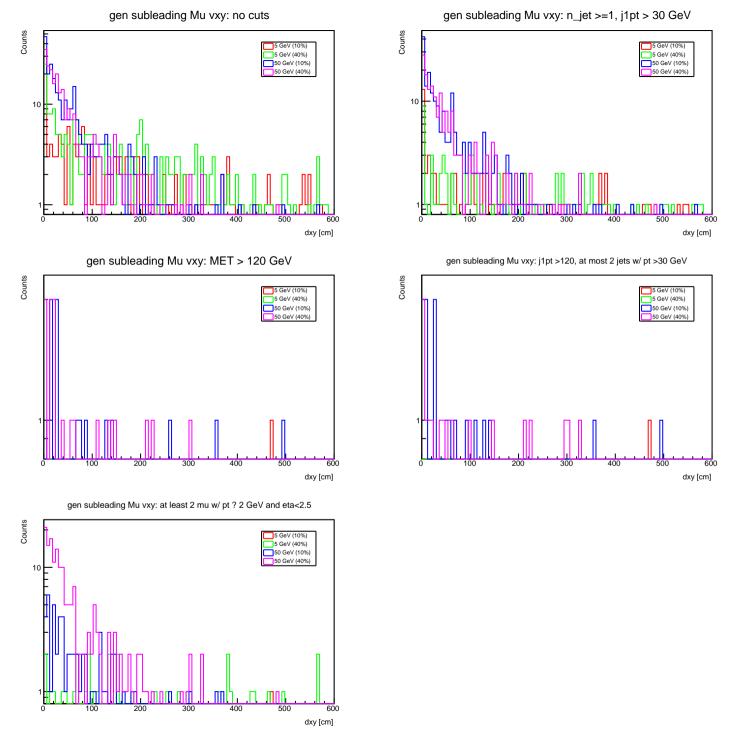


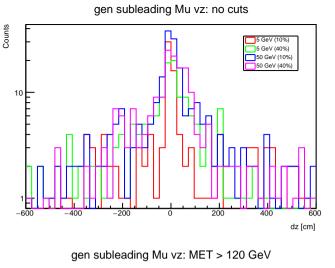


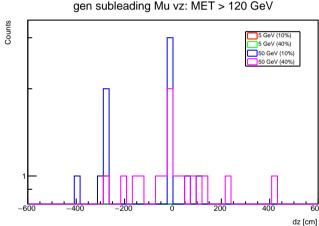


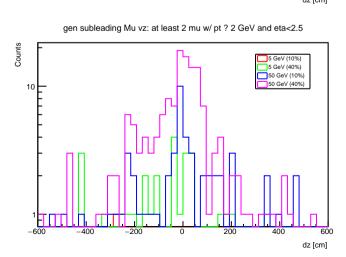


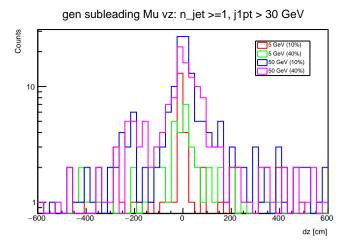
phi

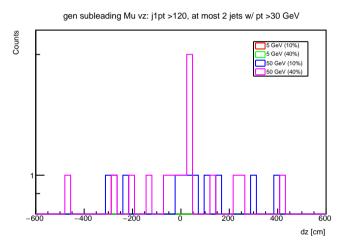


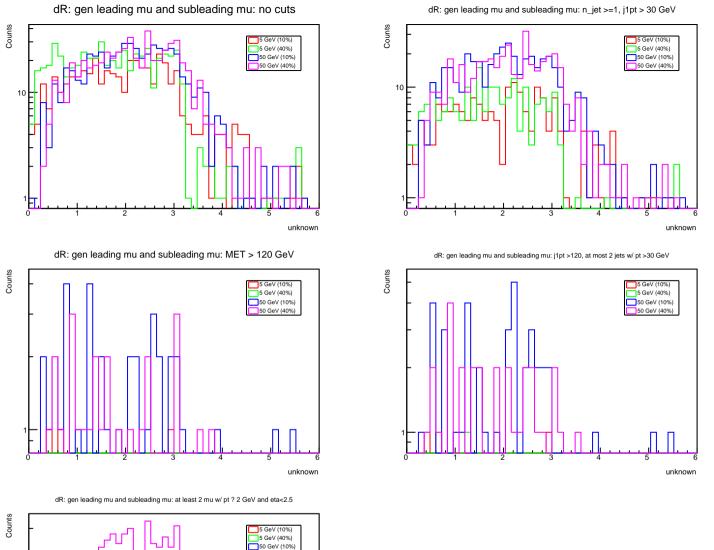


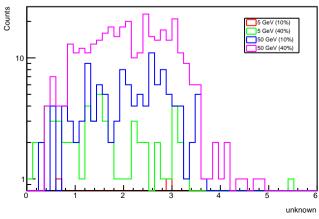


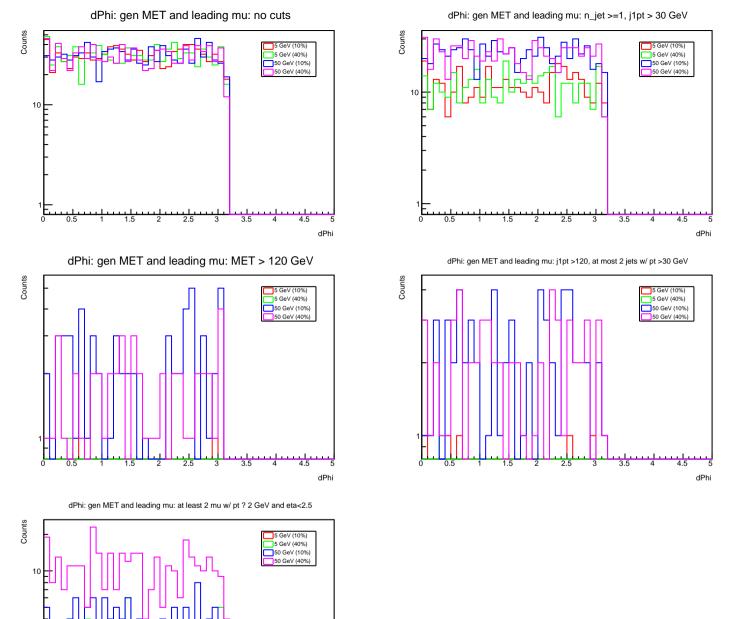






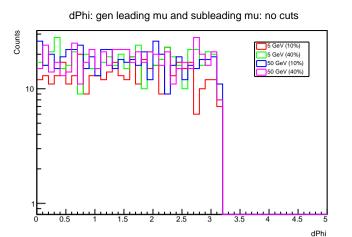




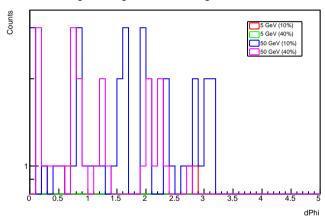


3.5

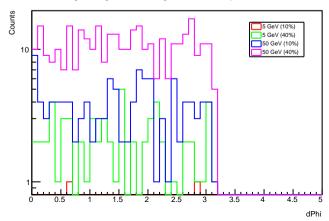
dPhi



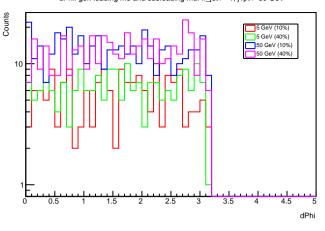




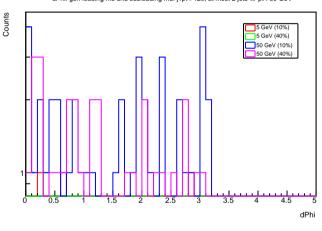
dPhi: gen leading mu and subleading mu: at least 2 mu w/ pt ? 2 GeV and eta<2.5

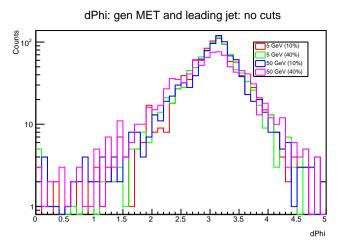


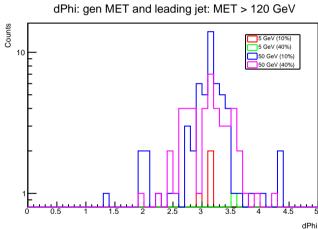
dPhi: gen leading mu and subleading mu: n\_jet >=1, j1pt > 30 GeV

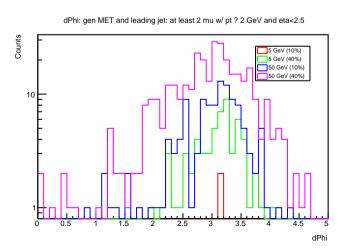


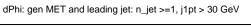
dPhi: gen leading mu and subleading mu: j1pt >120, at most 2 jets w/ pt >30 GeV

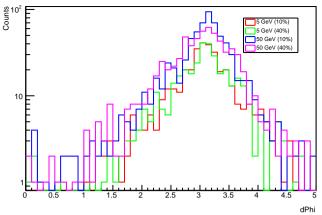




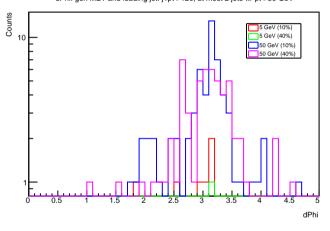


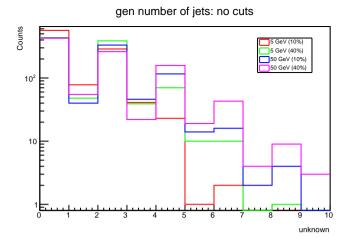


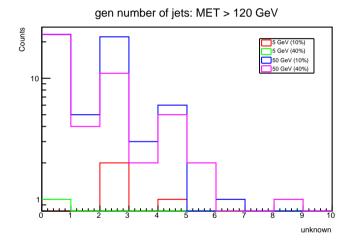


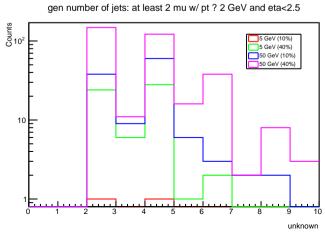


dPhi: gen MET and leading jet: j1pt >120, at most 2 jets w/ pt >30 GeV

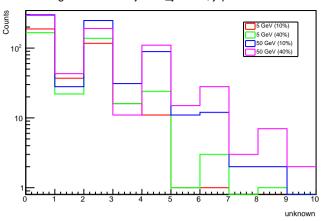




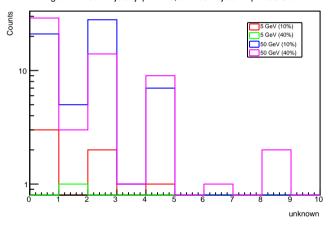


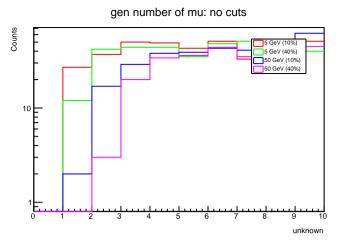


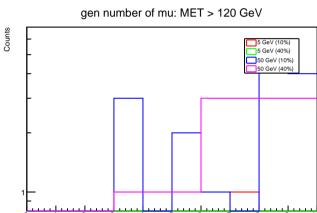




gen number of jets: j1pt >120, at most 2 jets w/ pt >30 GeV





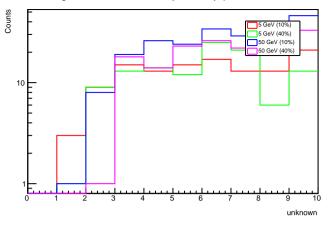


gen number of mu: at least 2 mu w/ pt ? 2 GeV and eta<2.5

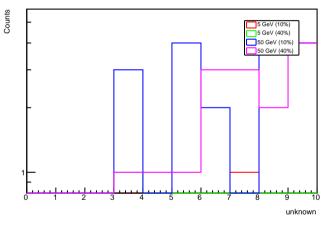
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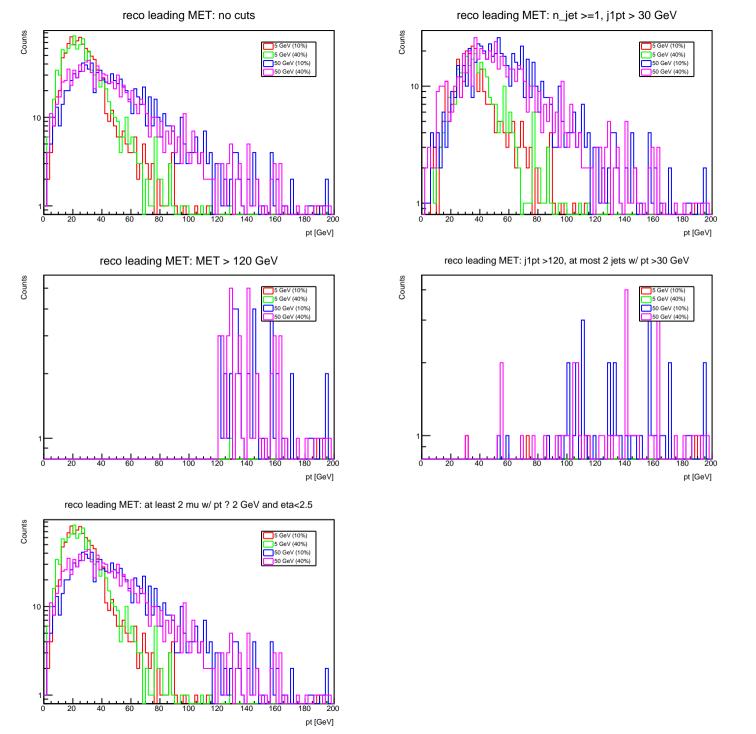
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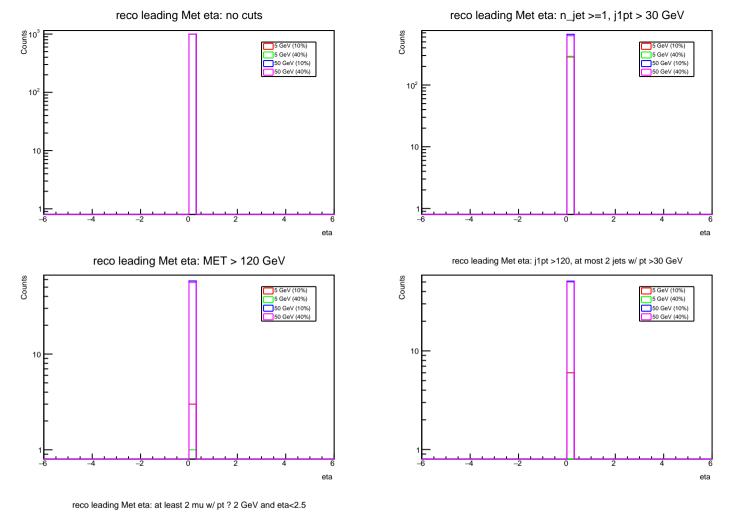




gen number of mu: j1pt >120, at most 2 jets w/ pt >30 GeV







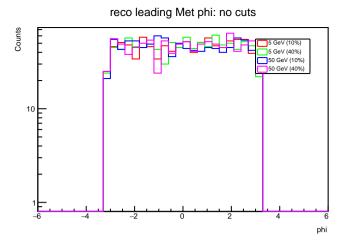
5 GeV (10%) 5 GeV (40%) 50 GeV (10%) 50 GeV (40%)

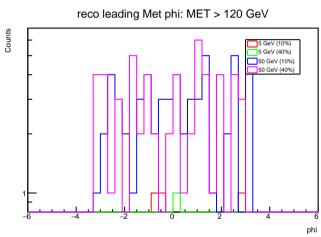
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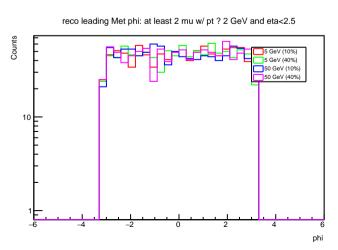
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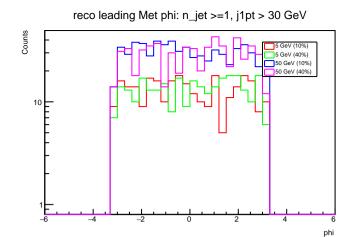
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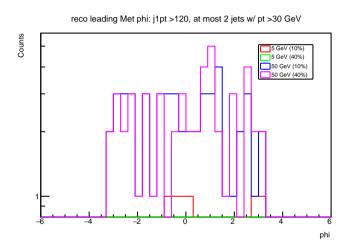
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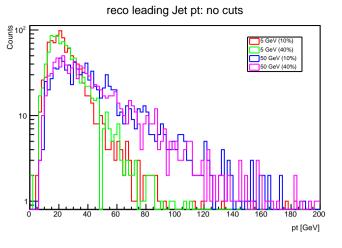


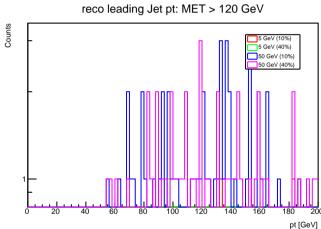


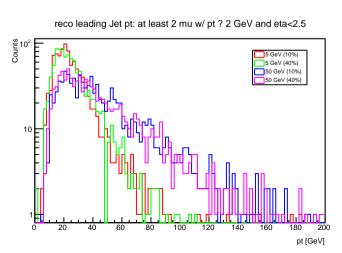


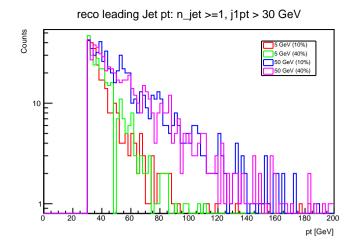


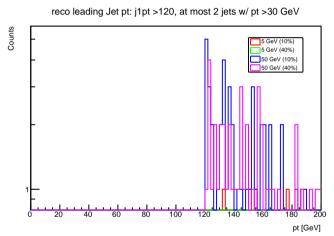


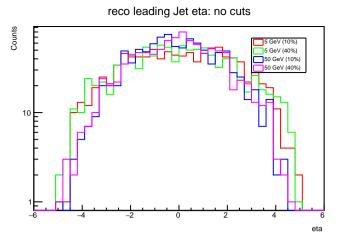


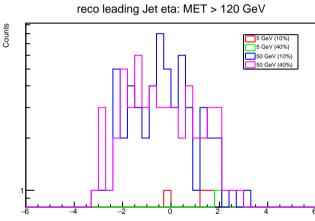


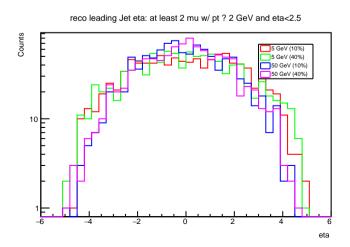


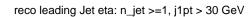


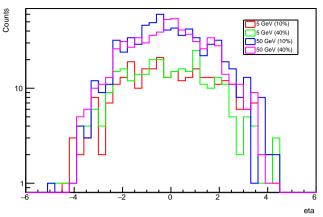




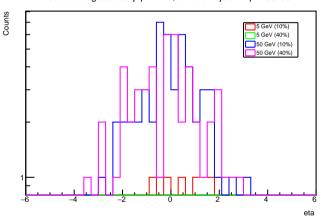


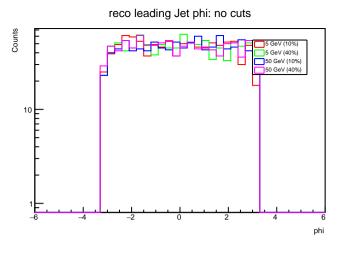


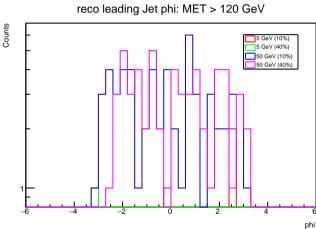


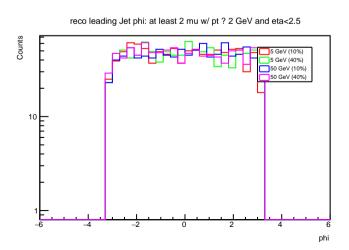


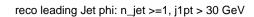
reco leading Jet eta: j1pt >120, at most 2 jets w/ pt >30 GeV

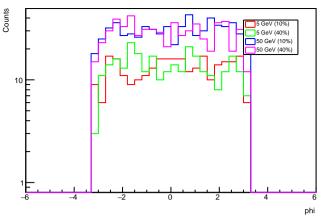




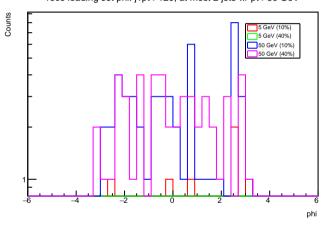


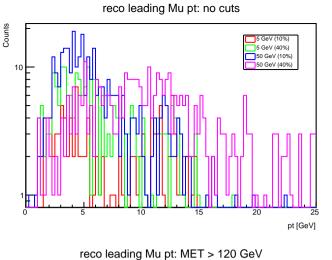


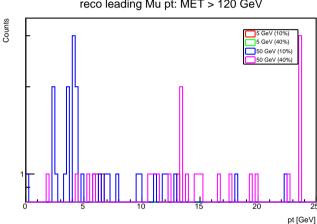


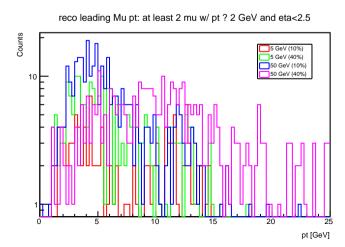


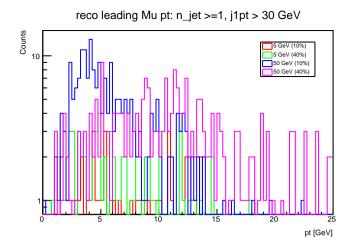
reco leading Jet phi: j1pt >120, at most 2 jets w/ pt >30 GeV

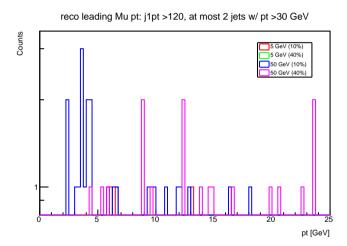


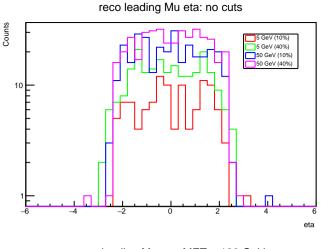


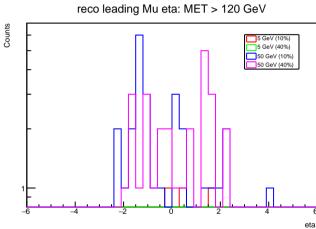


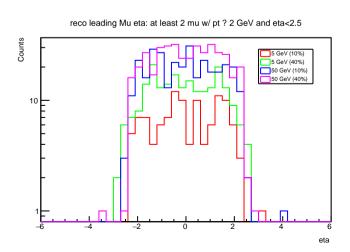


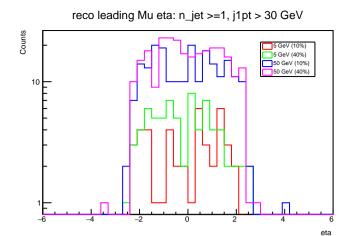


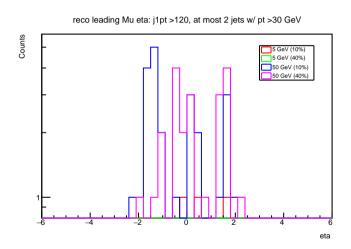


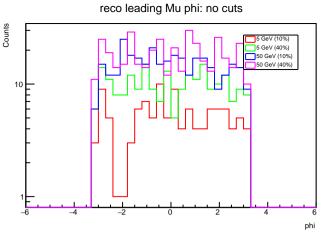


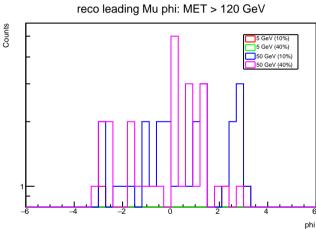


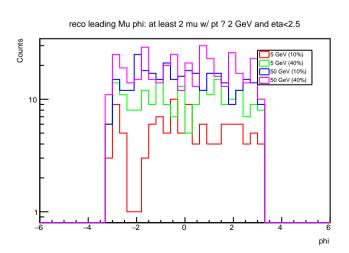


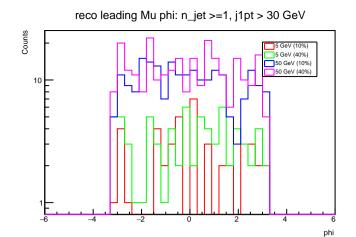


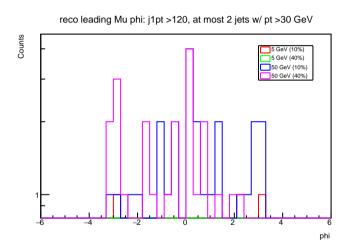


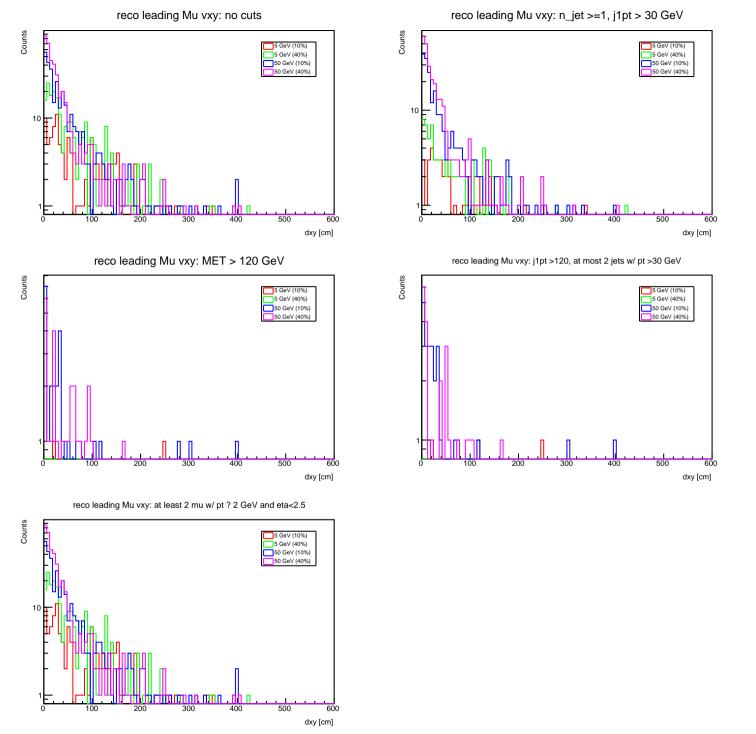


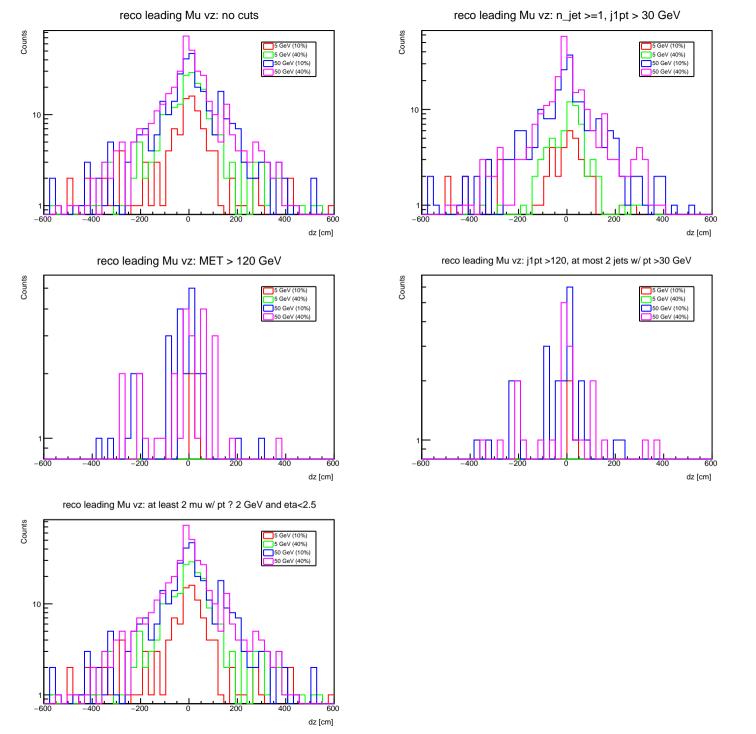


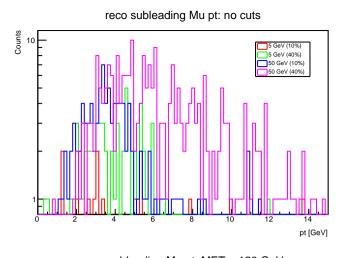


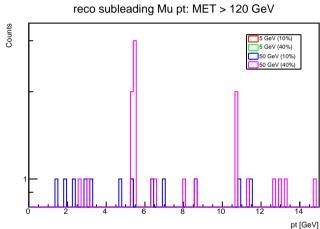


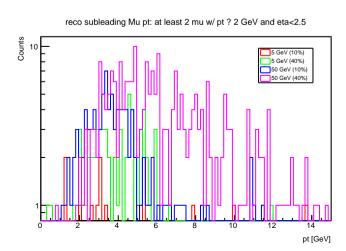


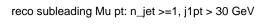


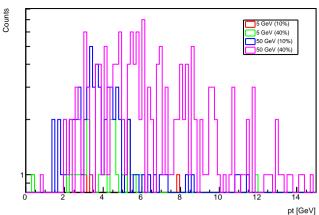




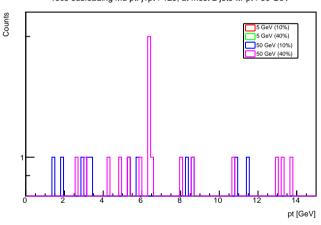


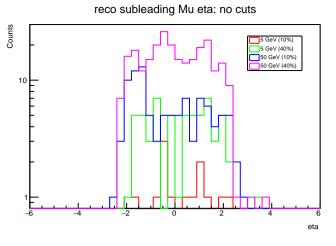


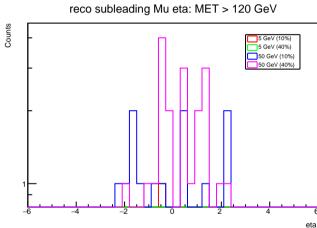


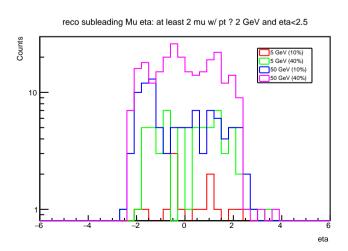


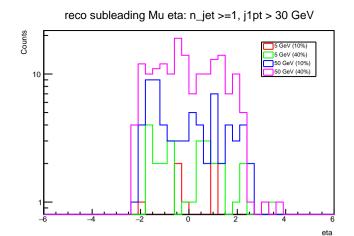
reco subleading Mu pt: j1pt >120, at most 2 jets w/ pt >30 GeV

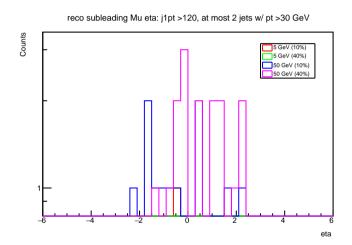


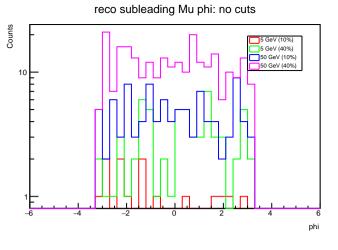


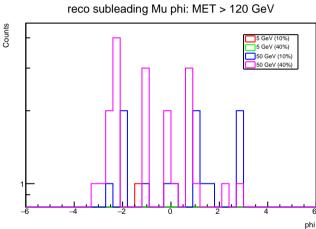


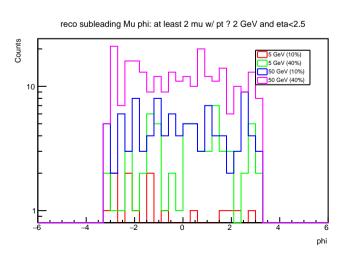


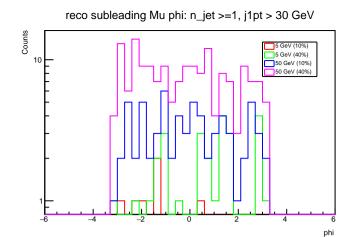


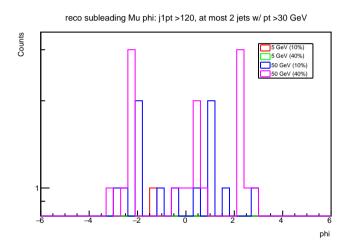


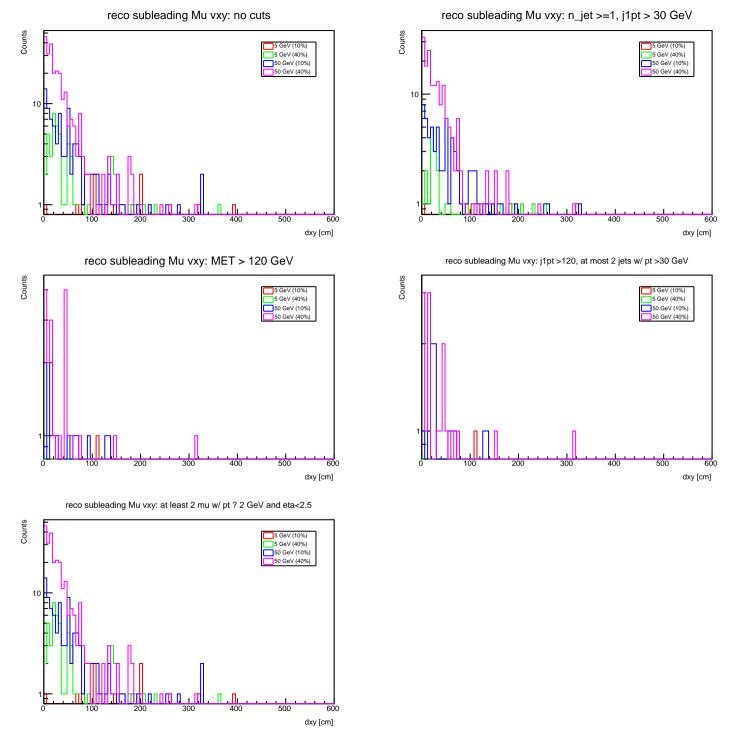


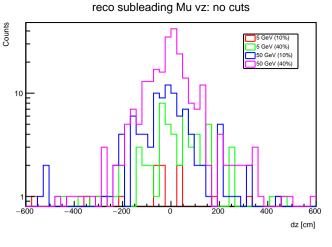


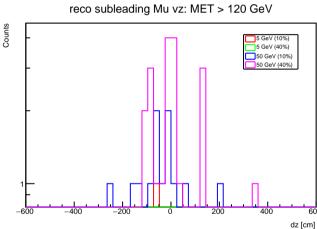


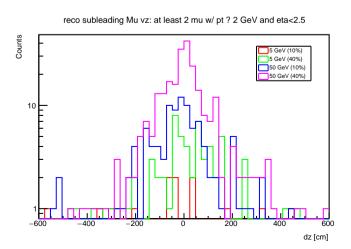


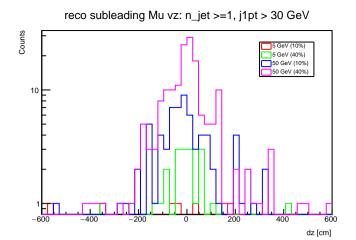


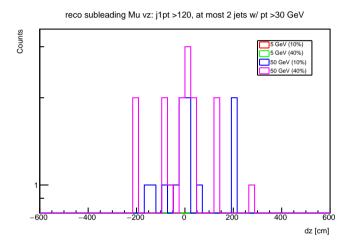


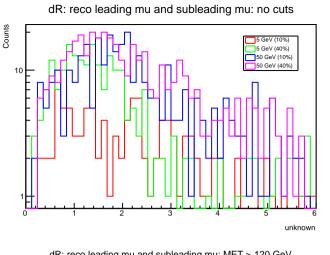


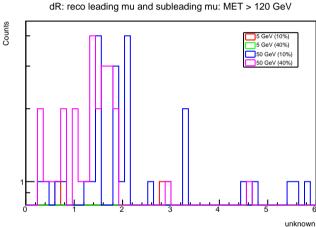


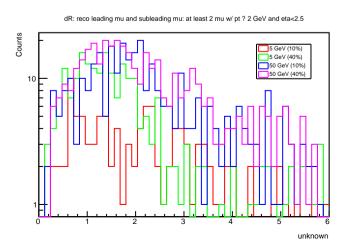


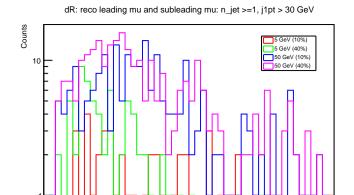




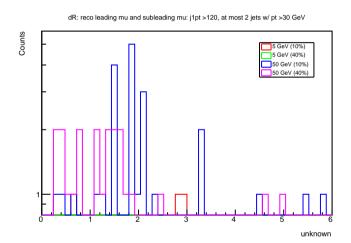


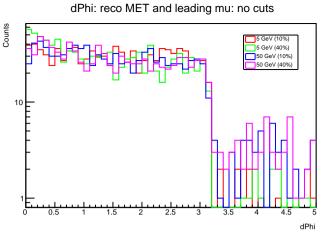


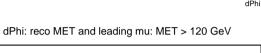


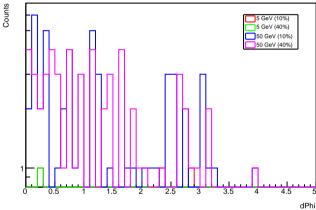


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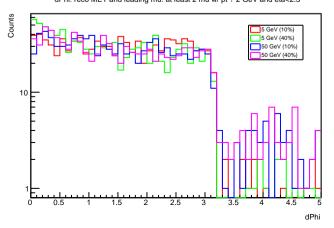




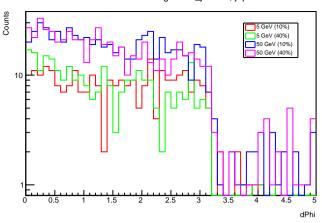




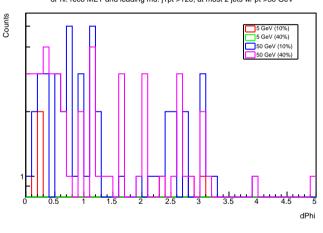
dPhi: reco MET and leading mu: at least 2 mu w/ pt ? 2 GeV and eta<2.5

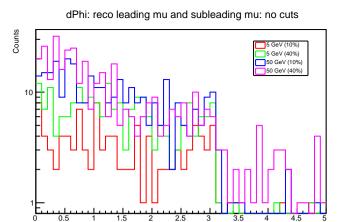


dPhi: reco MET and leading mu: n\_jet >=1, j1pt > 30 GeV



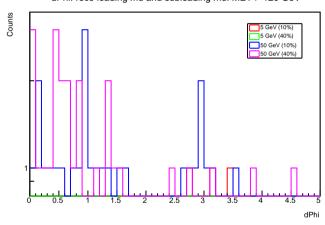
dPhi: reco MET and leading mu: j1pt >120, at most 2 jets w/ pt >30 GeV



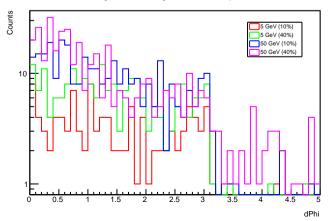


dPhi: reco leading mu and subleading mu: MET > 120 GeV

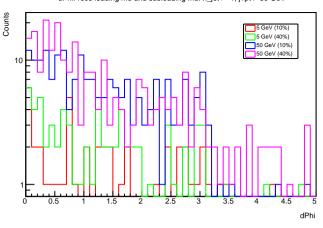
dPhi



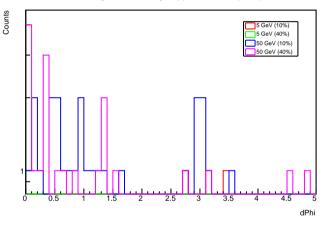
dPhi: reco leading mu and subleading mu: at least 2 mu w/ pt ? 2 GeV and eta<2.5

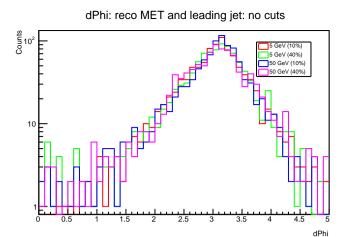


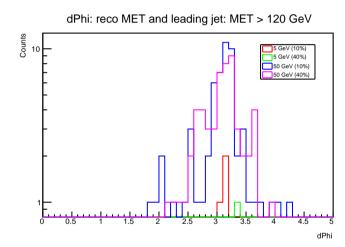
dPhi: reco leading mu and subleading mu: n\_jet >=1, j1pt > 30 GeV

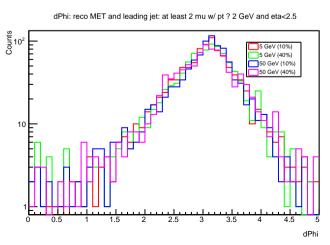


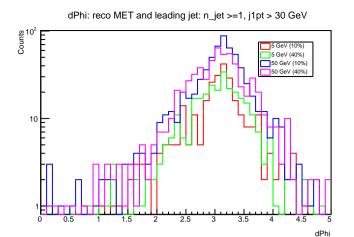
dPhi: reco leading mu and subleading mu: j1pt >120, at most 2 jets w/ pt >30 GeV

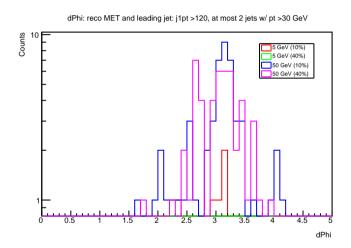


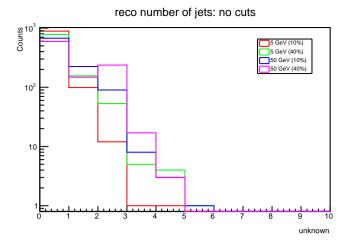


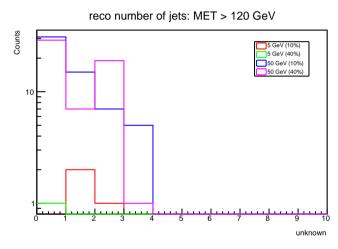


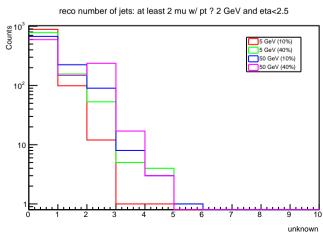


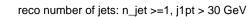


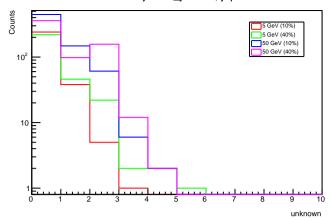




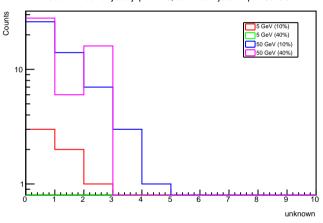


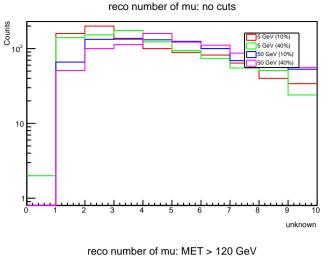


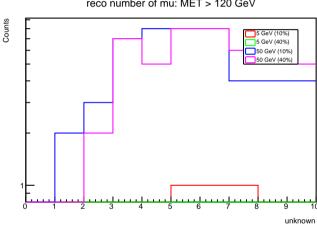


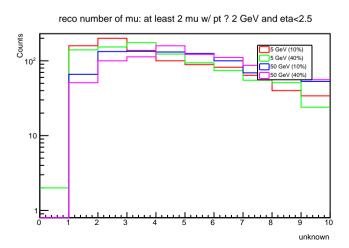


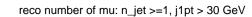
reco number of jets: j1pt >120, at most 2 jets w/ pt >30 GeV

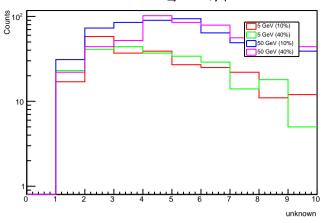




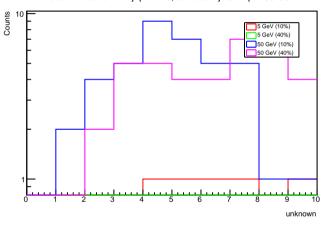


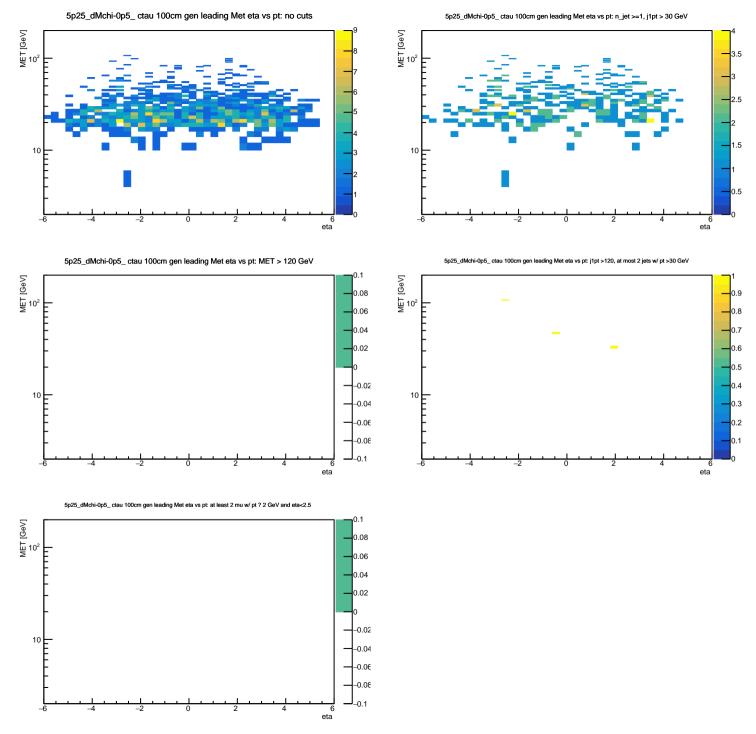


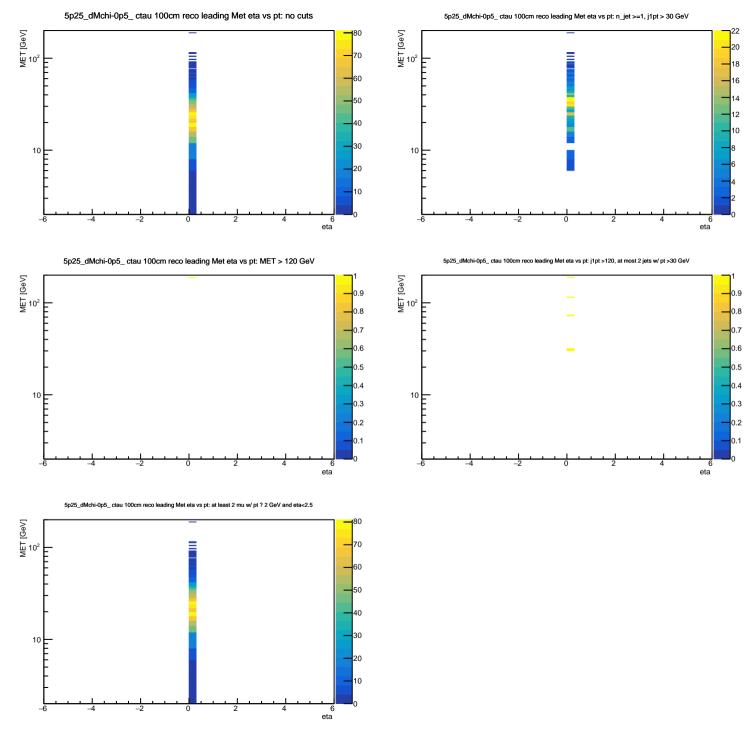


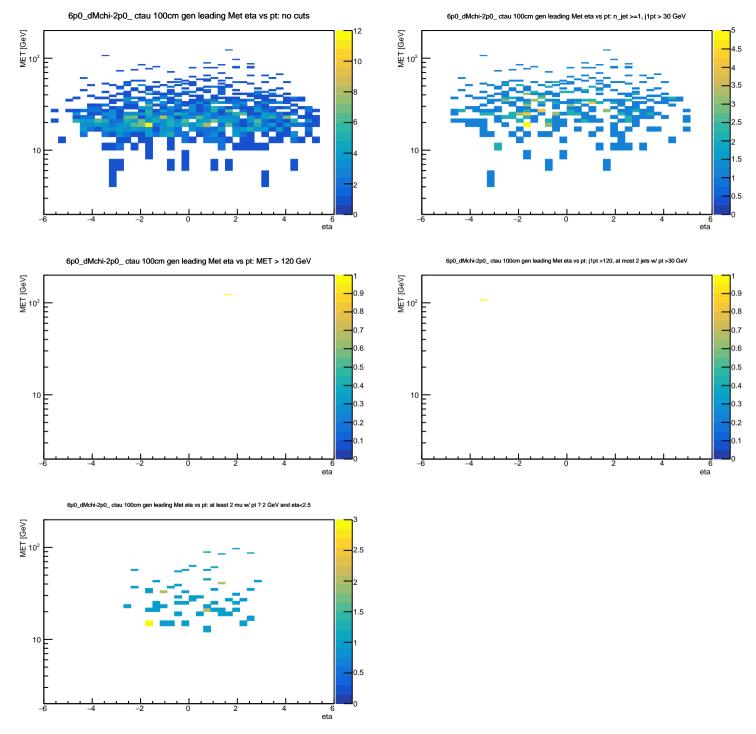


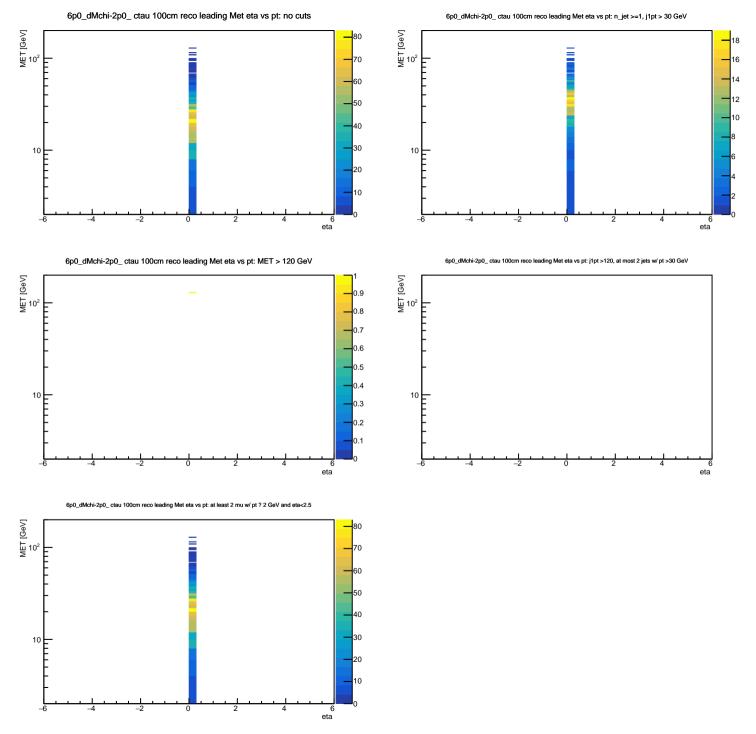
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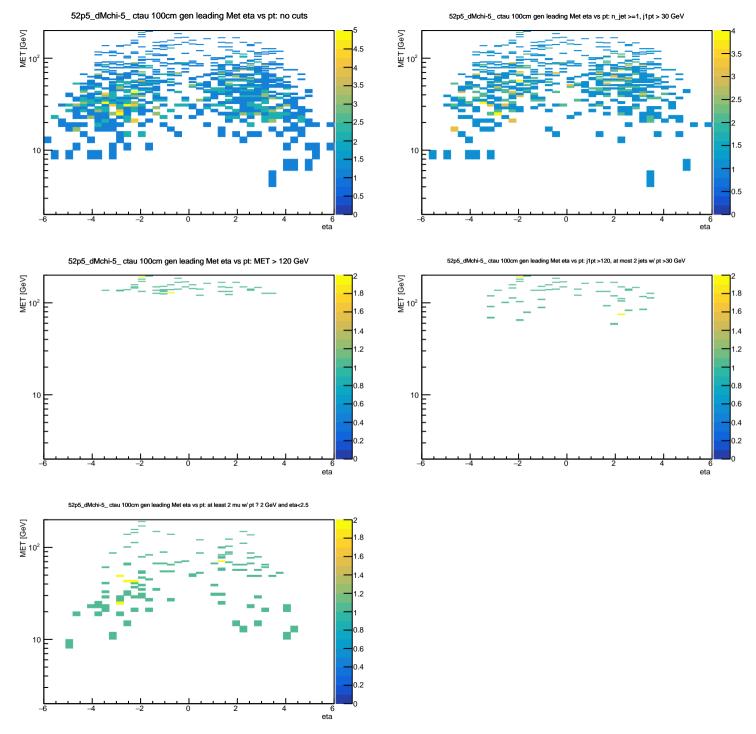


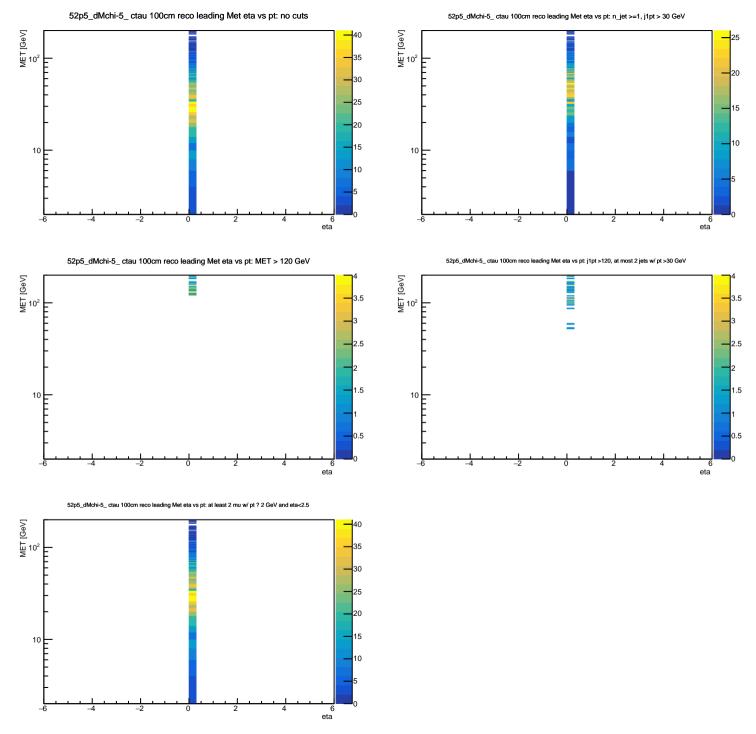


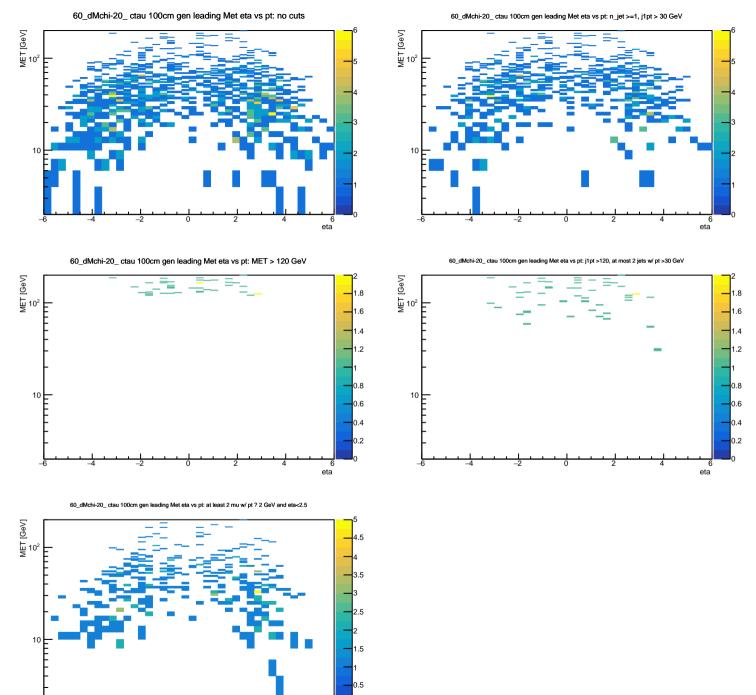




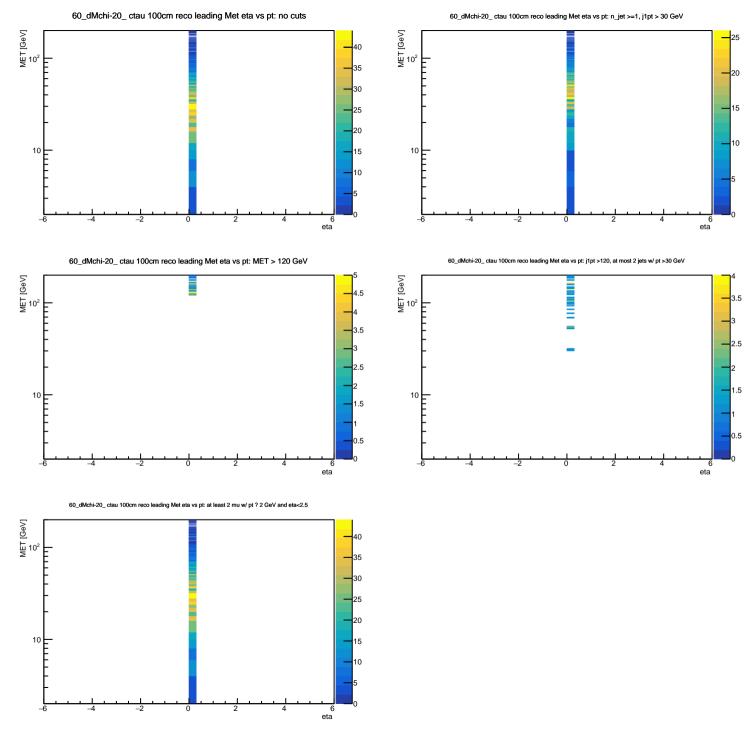






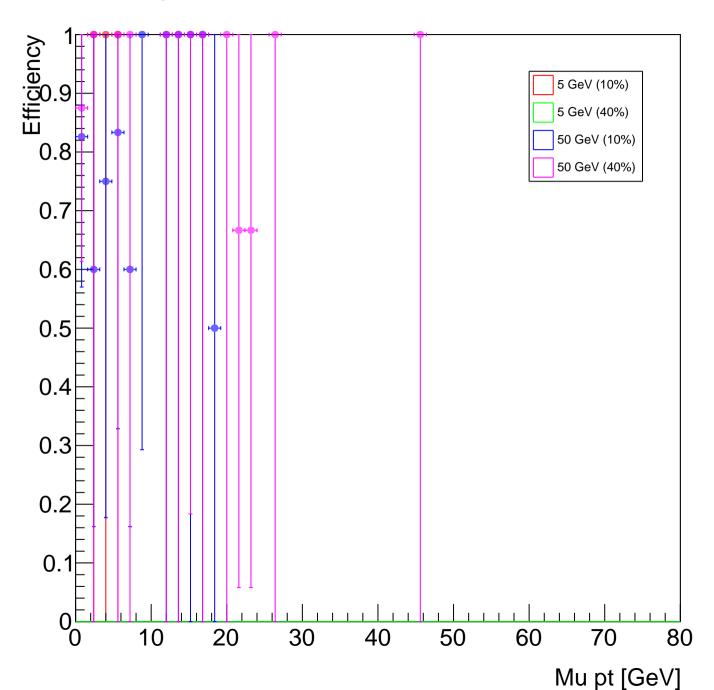


6 eta

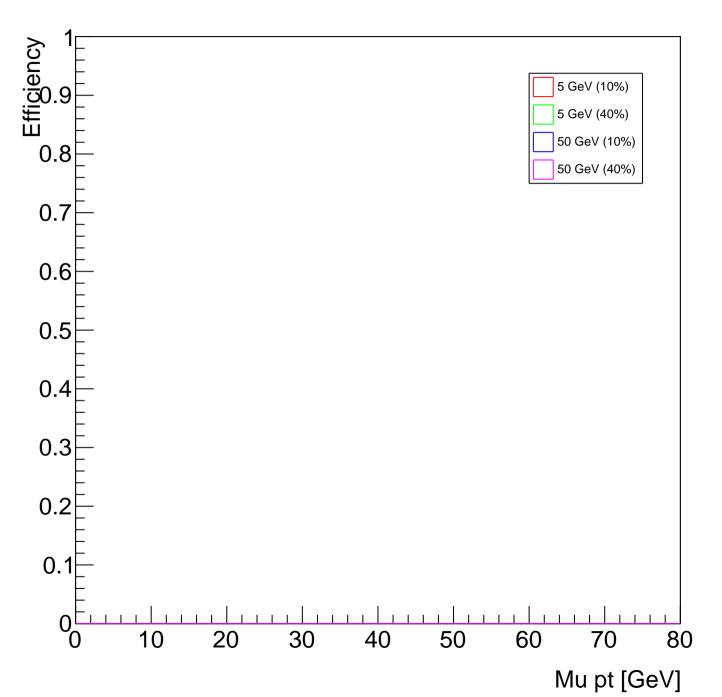




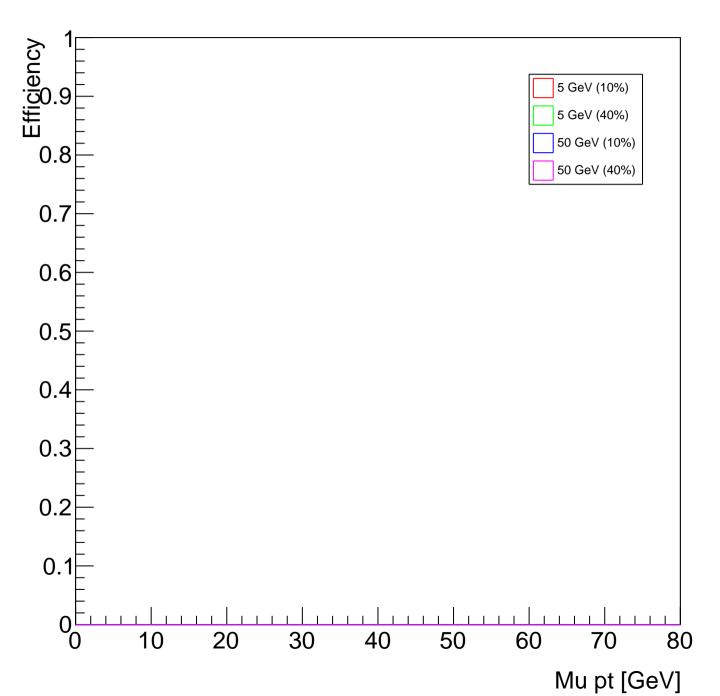
### trigefficiency HLT\_PFMET120\_PFMHT120



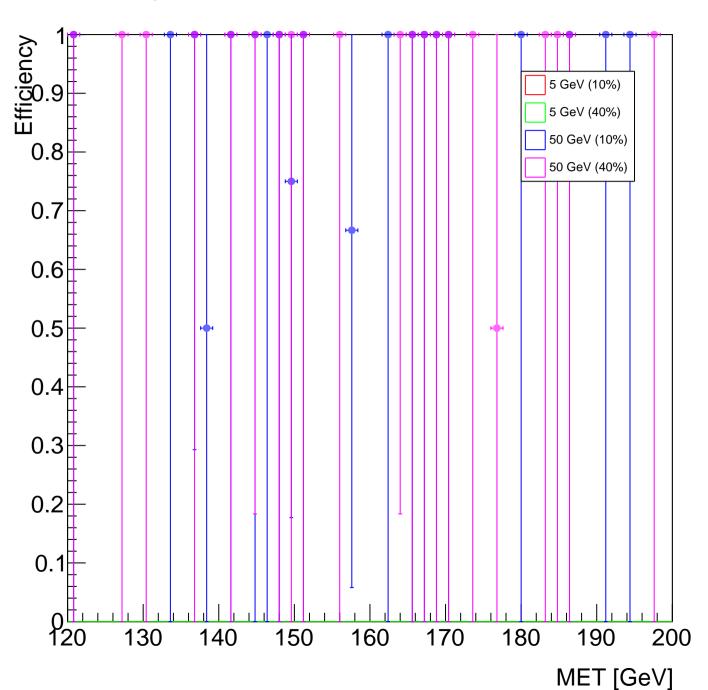
#### trigefficiency HLT\_DoubleMu3\_DCA\_PFMET50\_PFMHT60



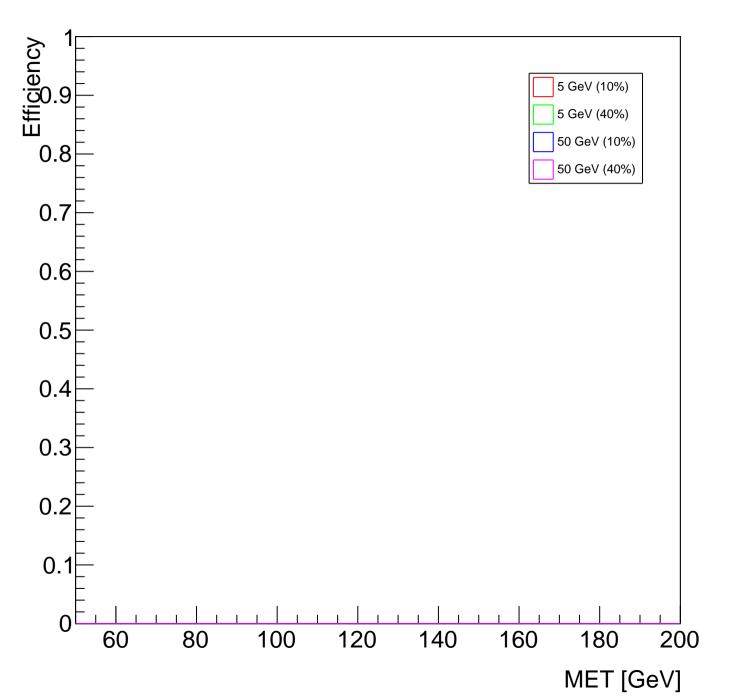
#### trigefficiency HLT\_DoubleMu3\_DZ\_PFMET50\_PFMHT60



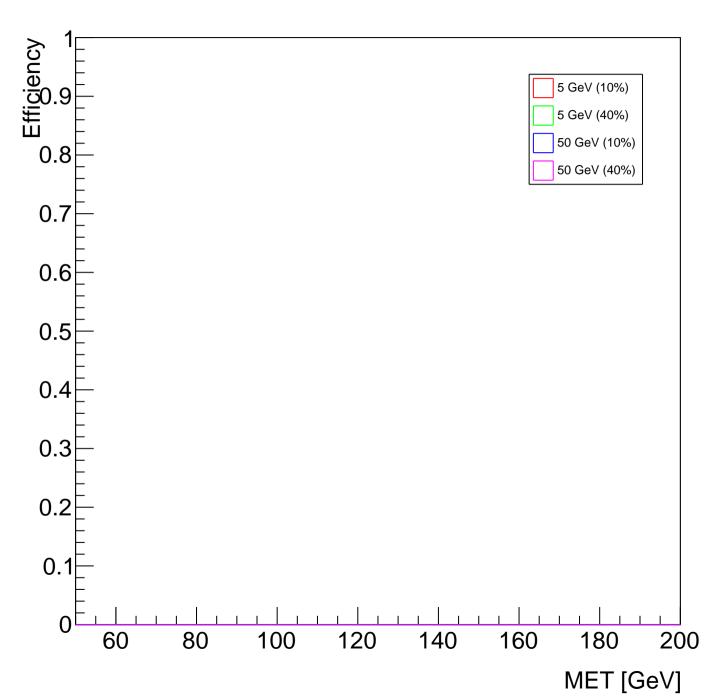
### trigefficiency HLT\_PFMET120\_PFMHT120



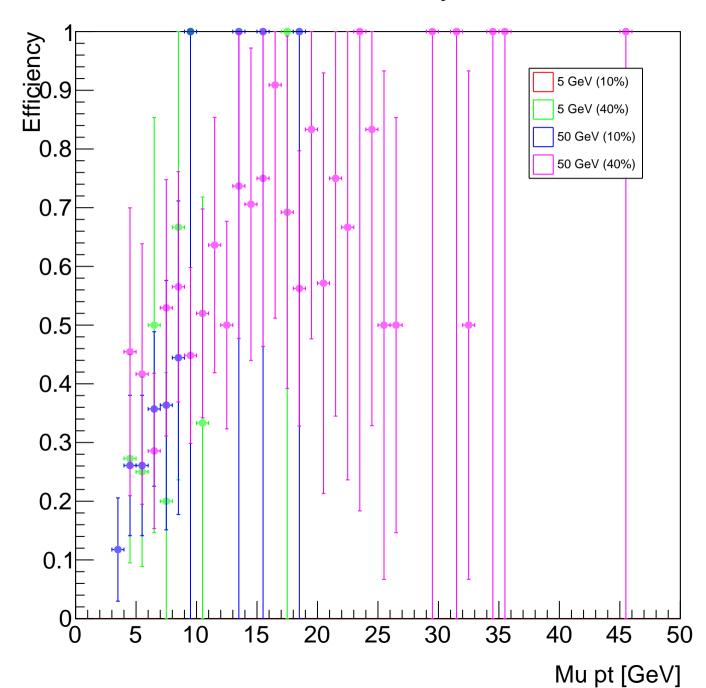
#### trigefficiency HLT\_DoubleMu3\_DCA\_PFMET50\_PFMHT60



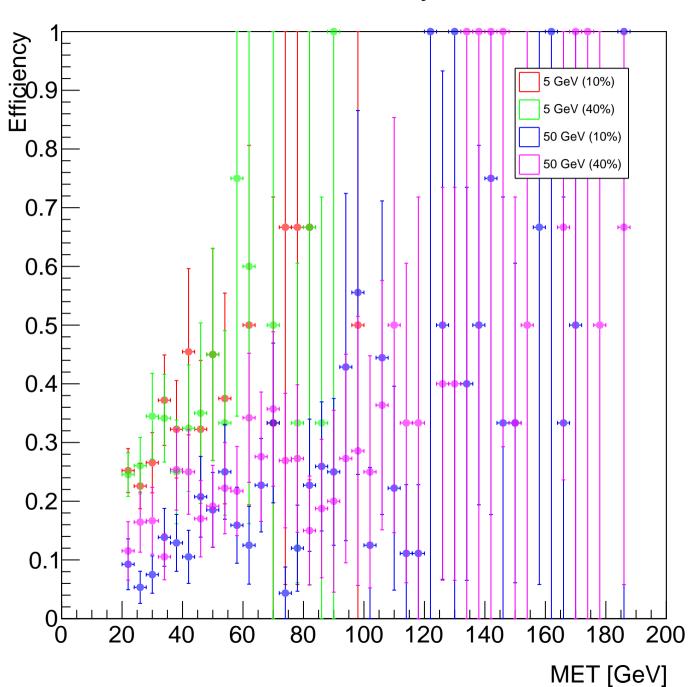
#### trigefficiency HLT\_DoubleMu3\_DZ\_PFMET50\_PFMHT60



# recoefficiency mu



## recoefficiency met



# recoefficiency met

