



Top Quark Physics At The CEPC

Supervisor : Prof.Yahya TAYALATI

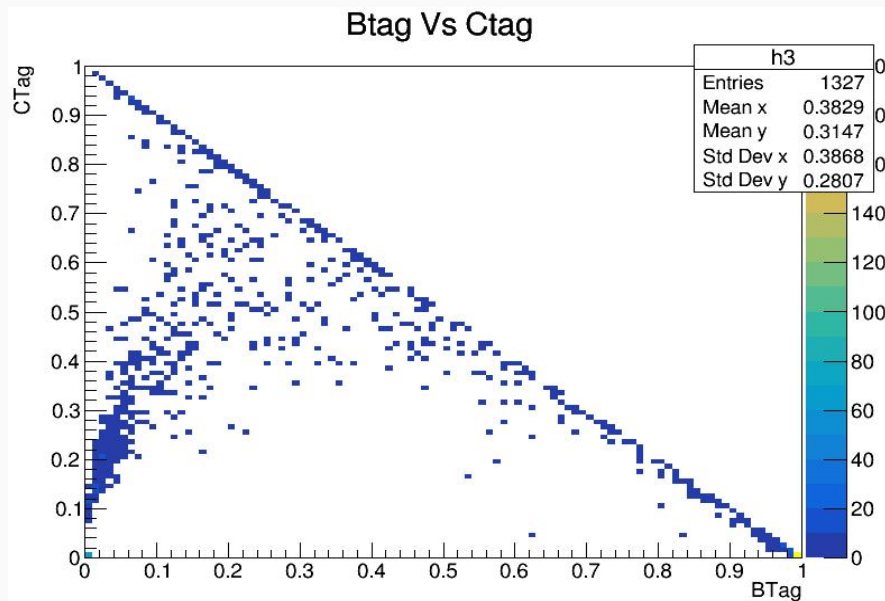
20 July 2023

Mustapha BIYABI

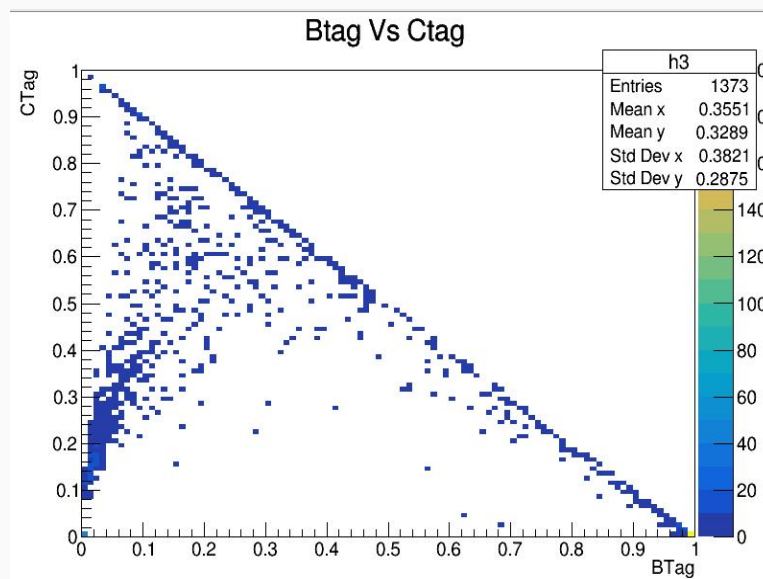
BTag / CTag Distribution (c-jet)

Btag/ctag distributions for the 3 possible categories(b_jet, c_jet, other_jet Candidates)

P1 (C-jet, PDGID=4)

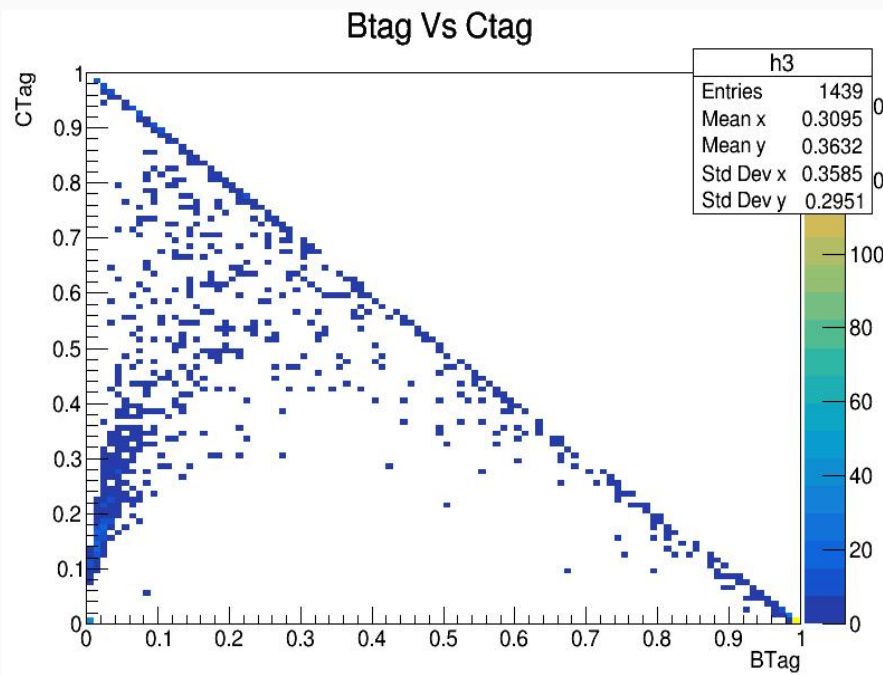


P2 (C-jet, PDGID=4)

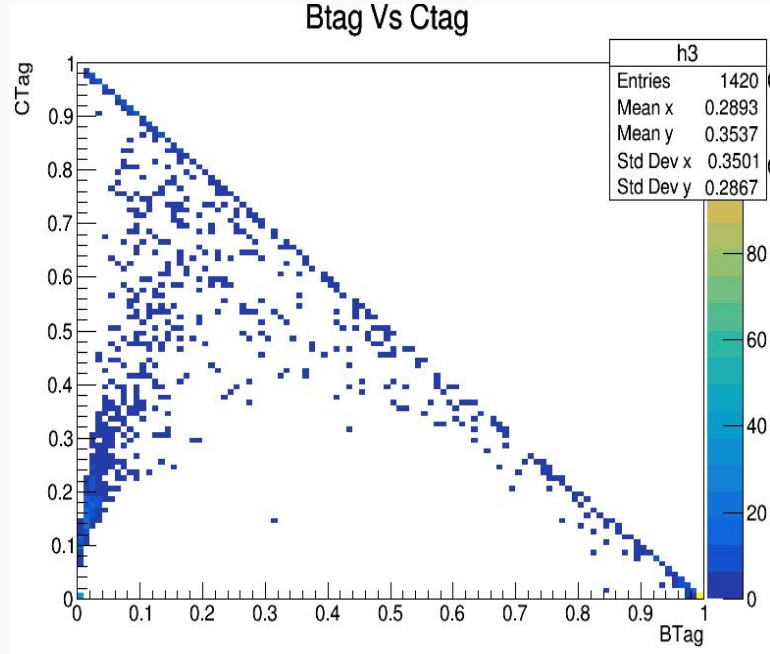


BTag/CTag Distribution (c-jet)

P3 (C-jet, PDGID=4)

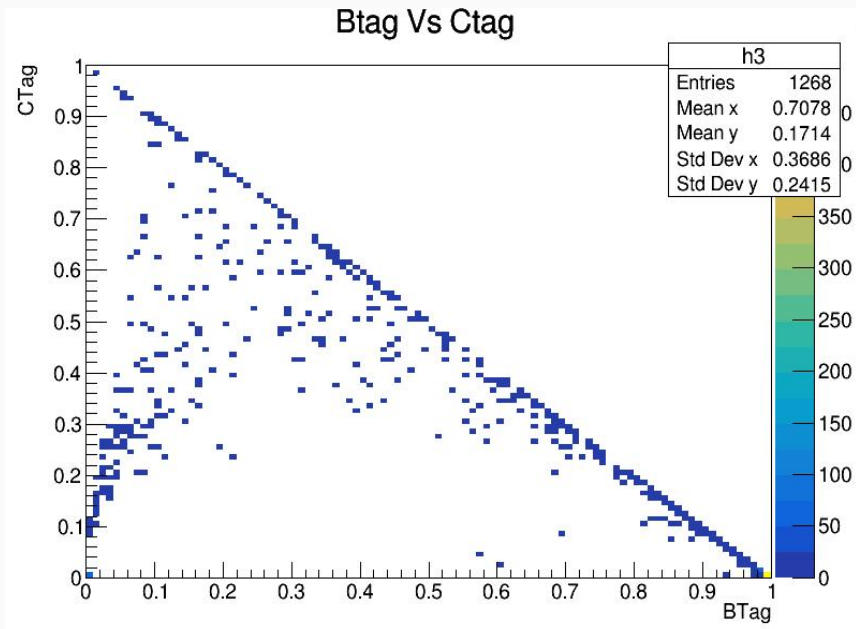


P4 (C-jet, PDGID=4)

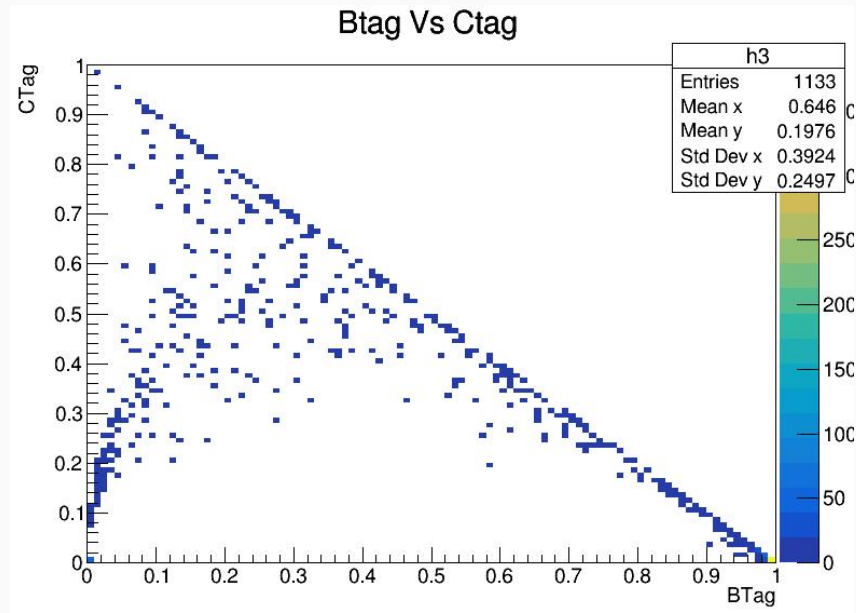


BTag / CTag Distribution (P1/P2)

P1 (b-jets)

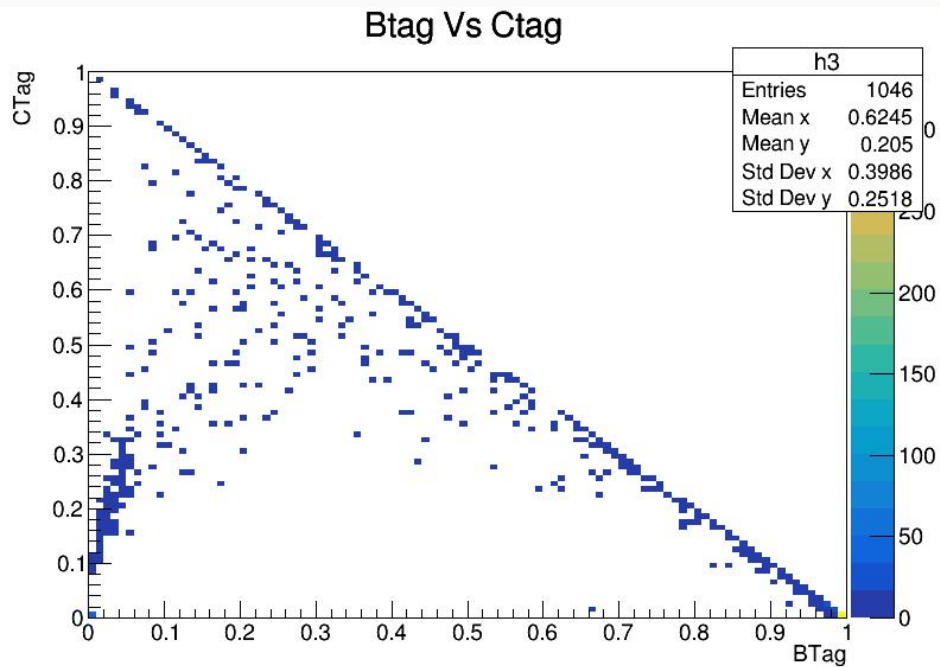


P2 (b-jets)

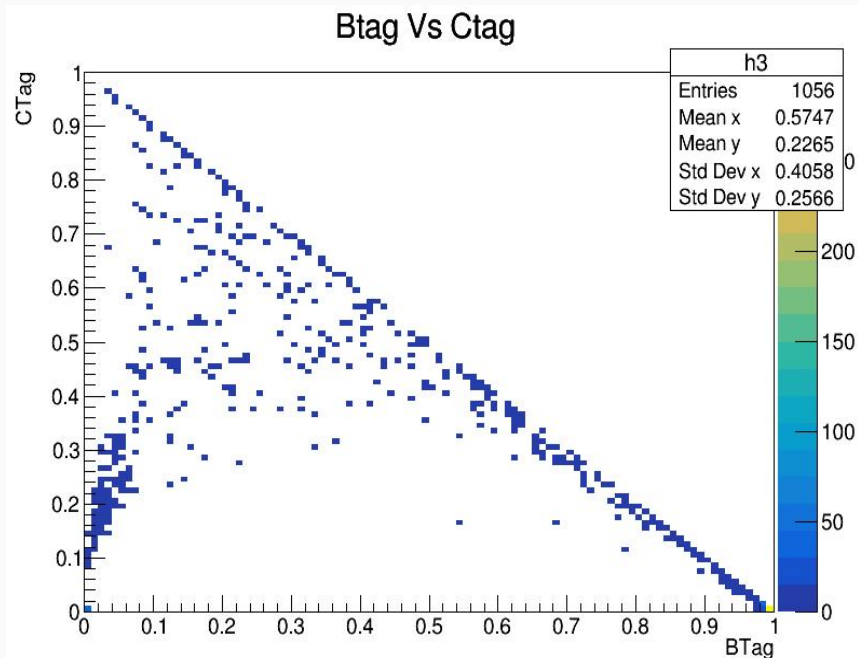


BTag/CTag Distribution (b-jet)

P3 (b-jets)

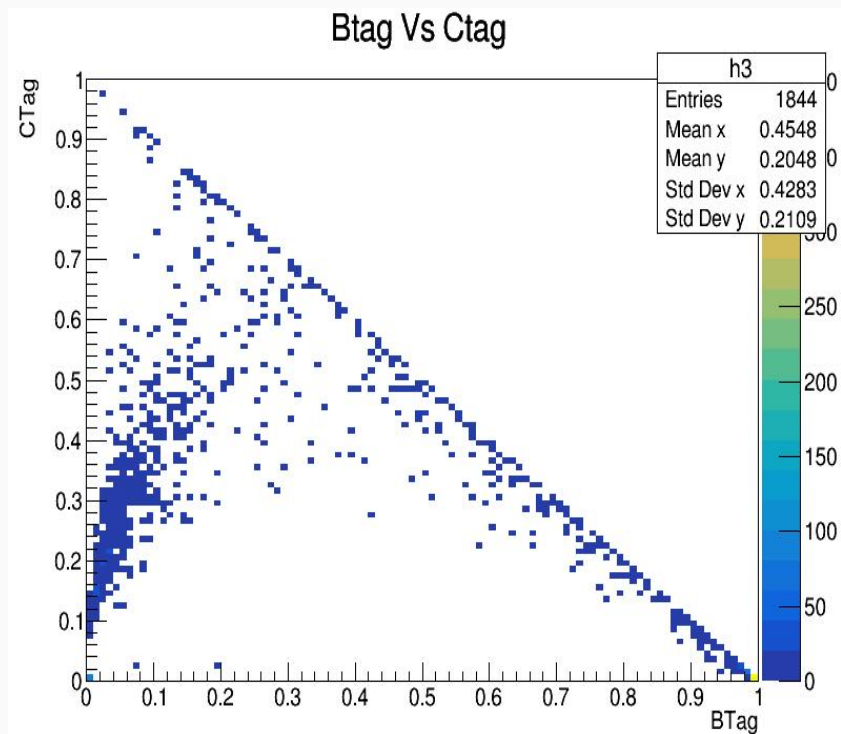


P4 (b-jets)

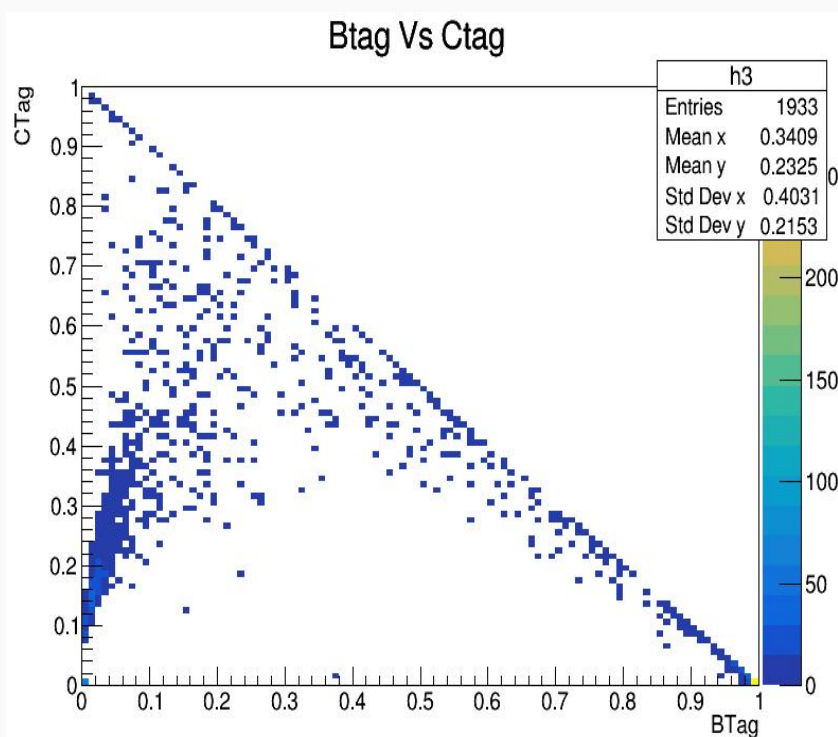


BTag/CTag Distribution (other-jet)

P1 (other-jets)

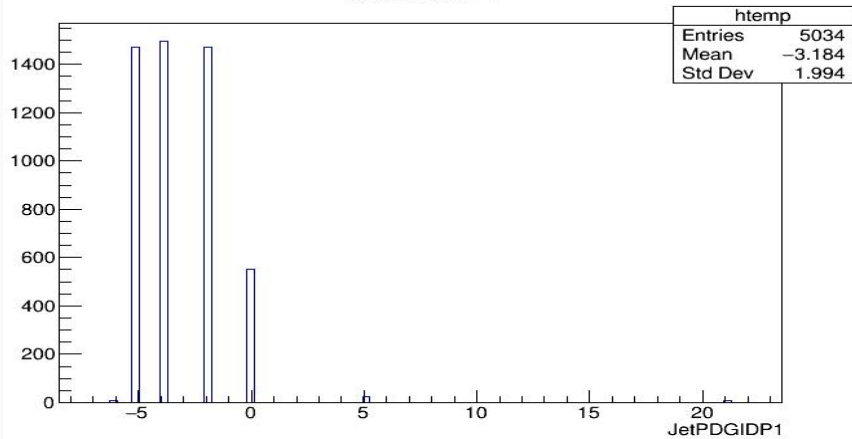


P2 (other-jets)

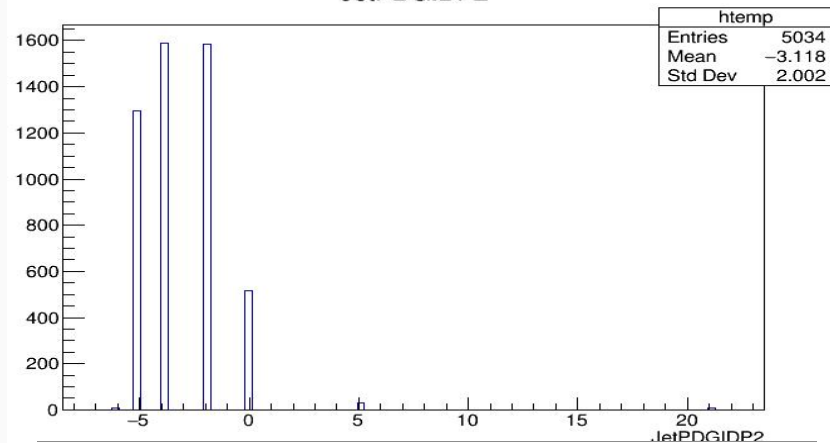


JETPDGID

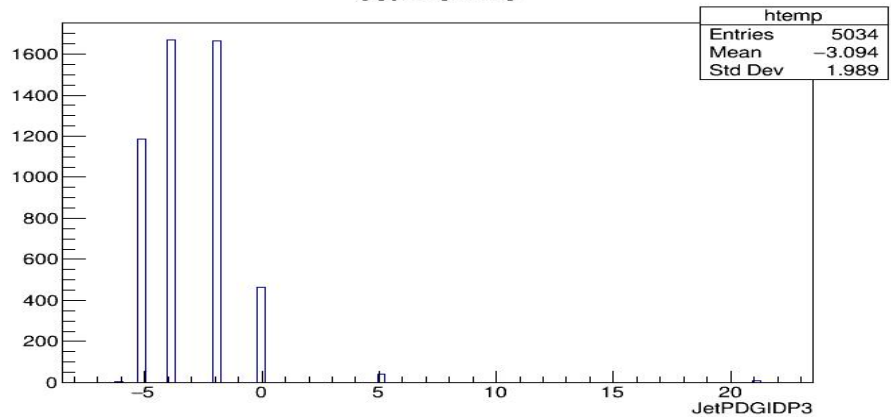
JetPDGIDP1



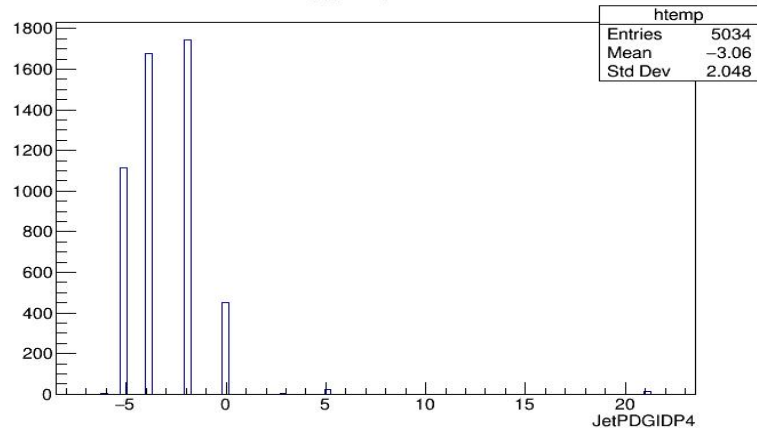
JetPDGIDP2



JetPDGIDP3



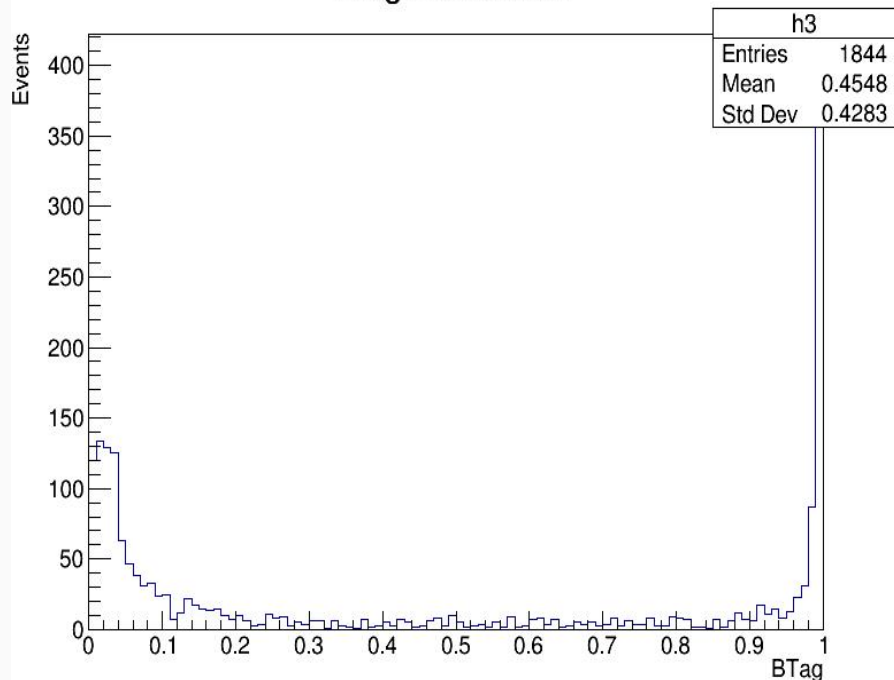
JetPDGIDP4



1D-BTAG Plots(other-jets)

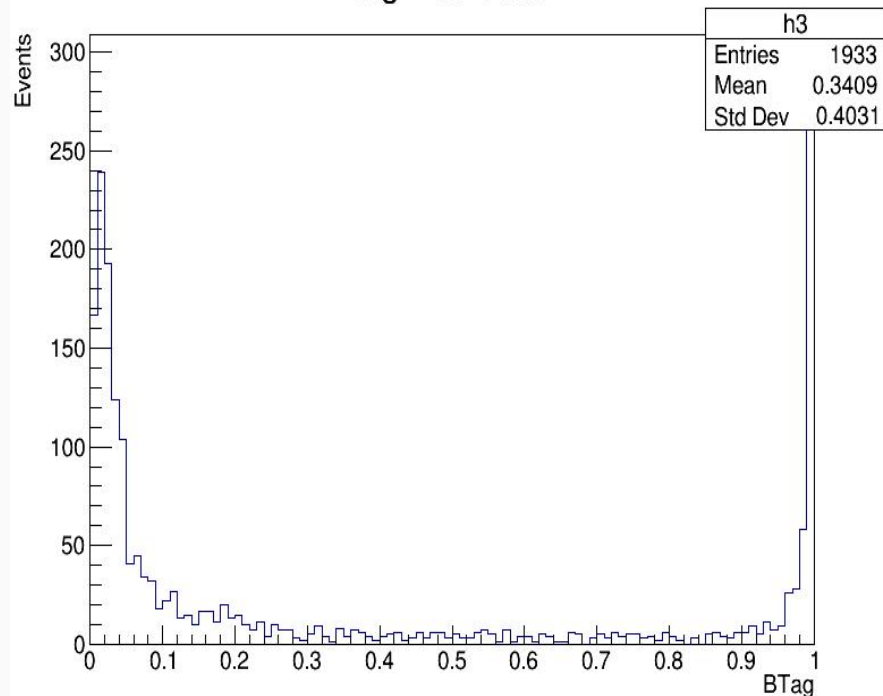
P1 (PDGID !=4, 5)

Btag Distribution



P2 (PDGID !=4,5)

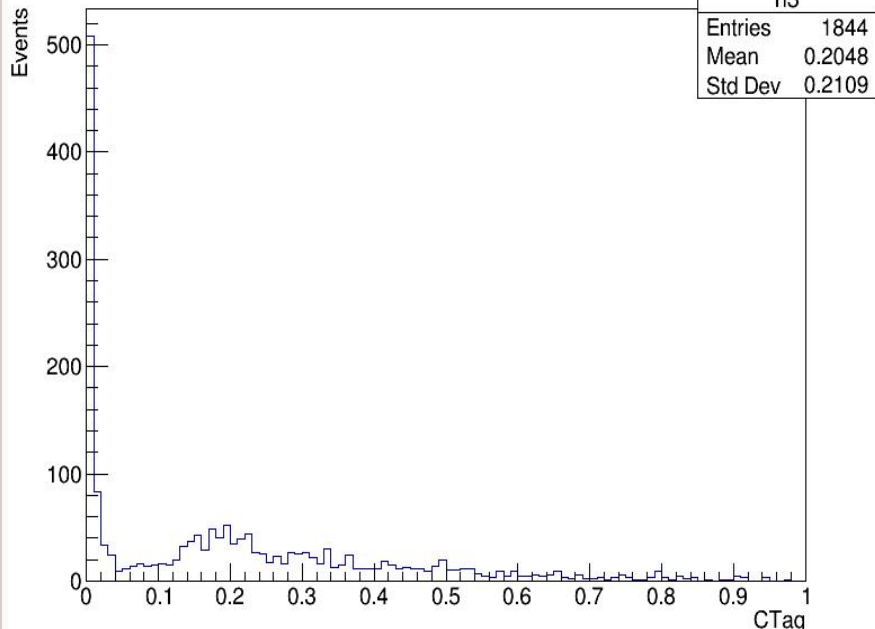
Btag Distribution



1D-CTAG Plots(other-jets)

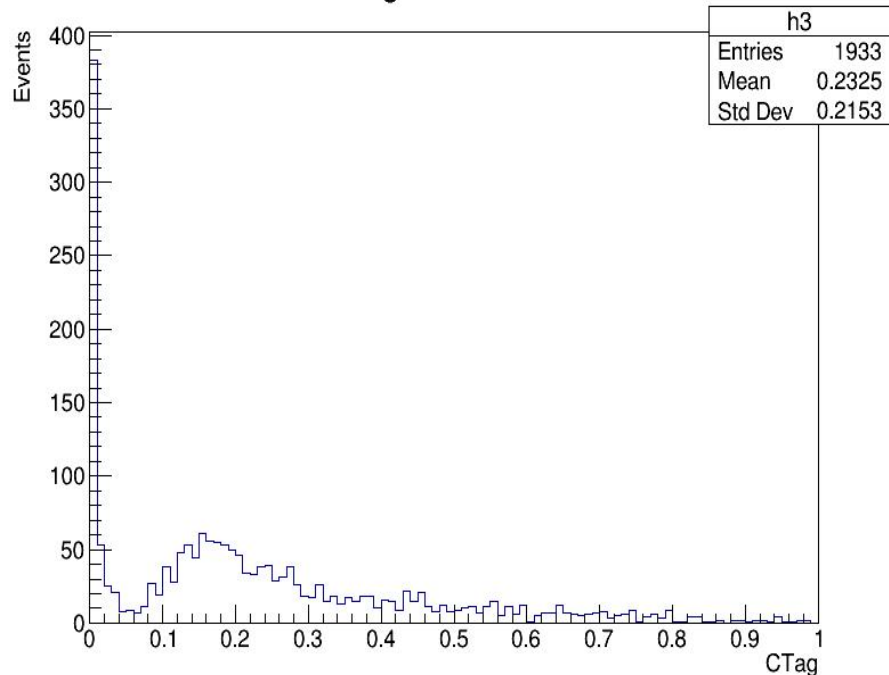
P1 (PDGID !=4, 5)

Ctag Distribution



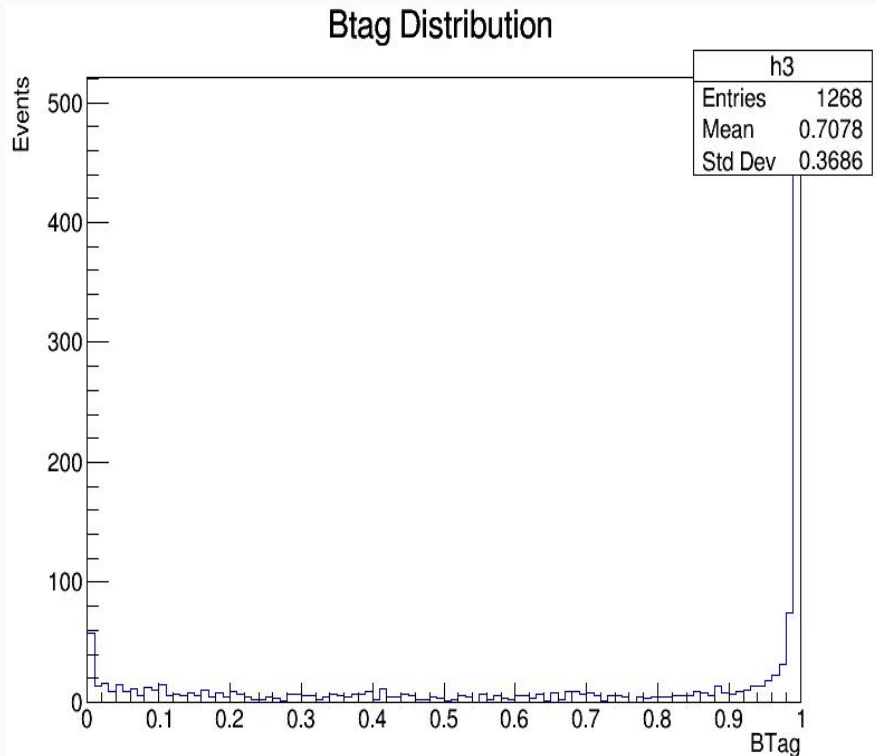
P2 (PDGID !=4,5)

Ctag Distribution

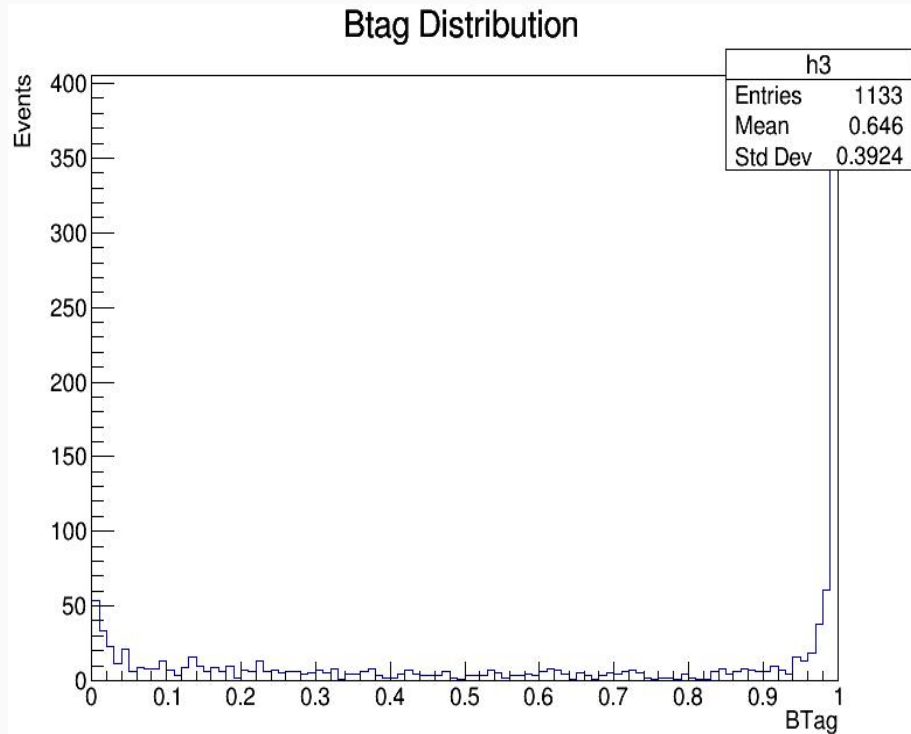


1D-BTAG plots (b-jet)

P1 (PDGID == 5)

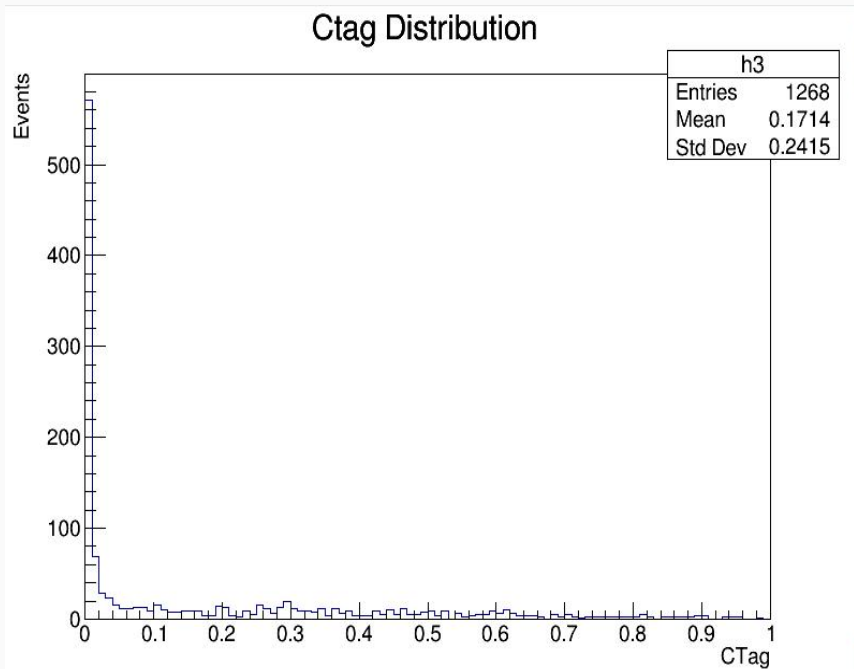


P2 (PDGID == 5)

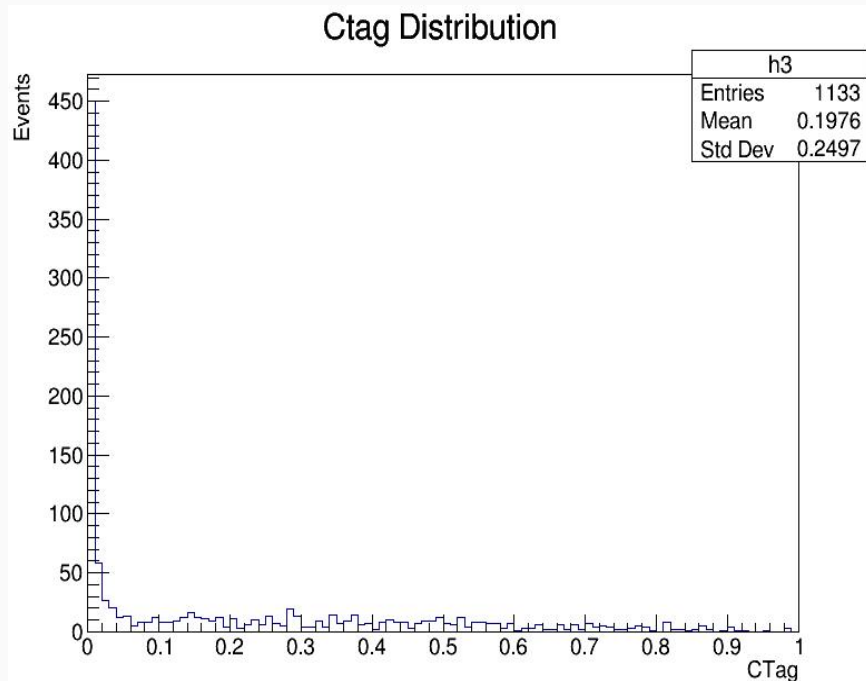


1D-CTAG plots (b-jet)

P1 (PDGID == 5)



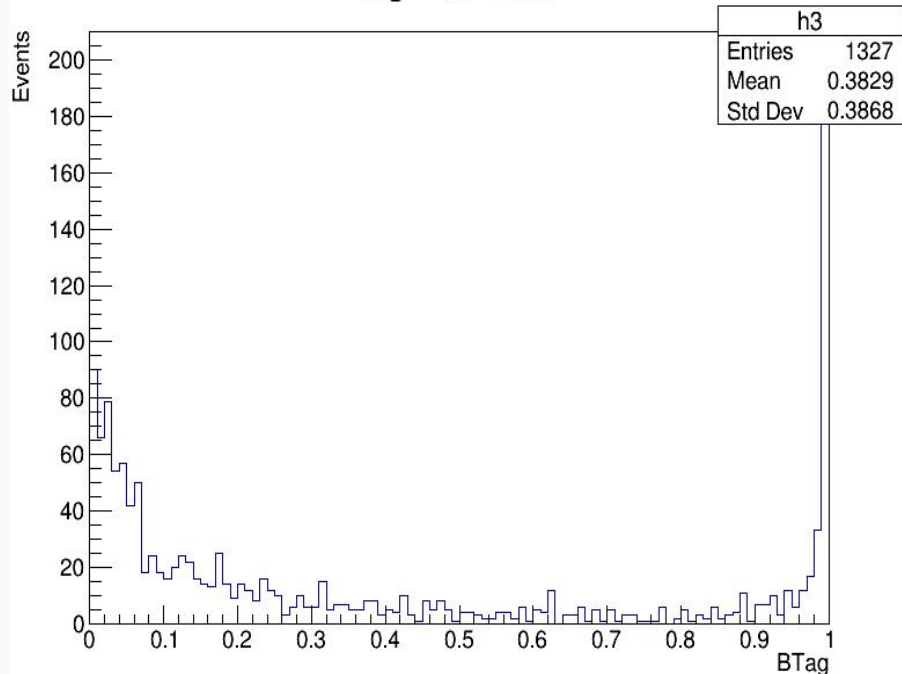
P2 (PDGID == 5)



1D-BTAG plots (c-jet)

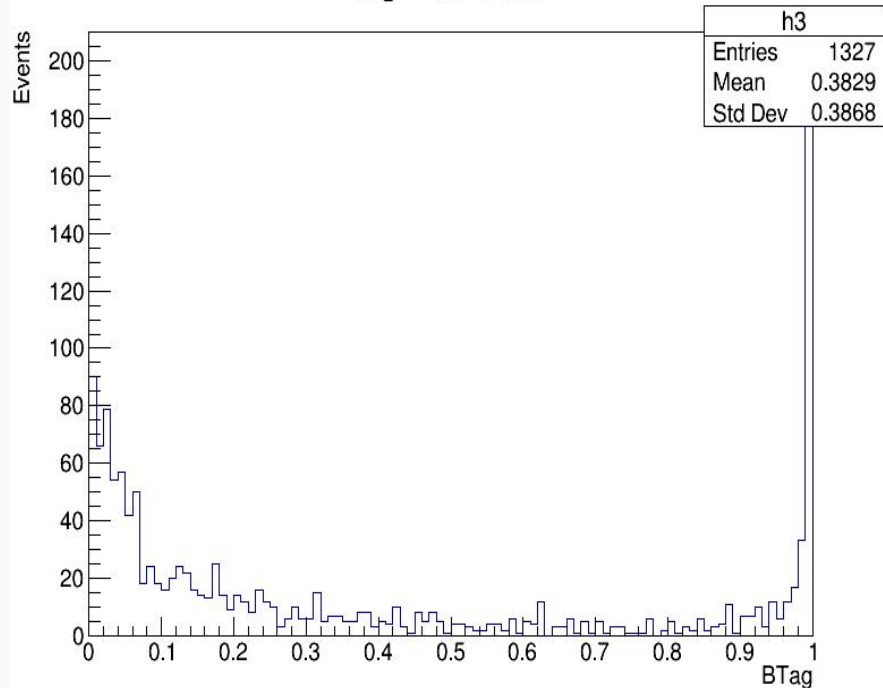
P1 (PDGID == 4)

Btag Distribution



P2 (PDGID == 4)

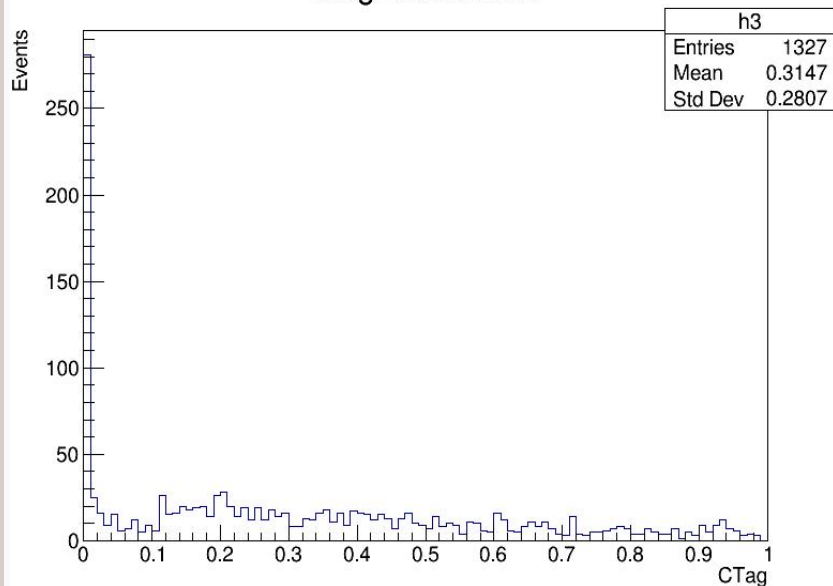
Btag Distribution



1D-CTAG plots (c-jet)

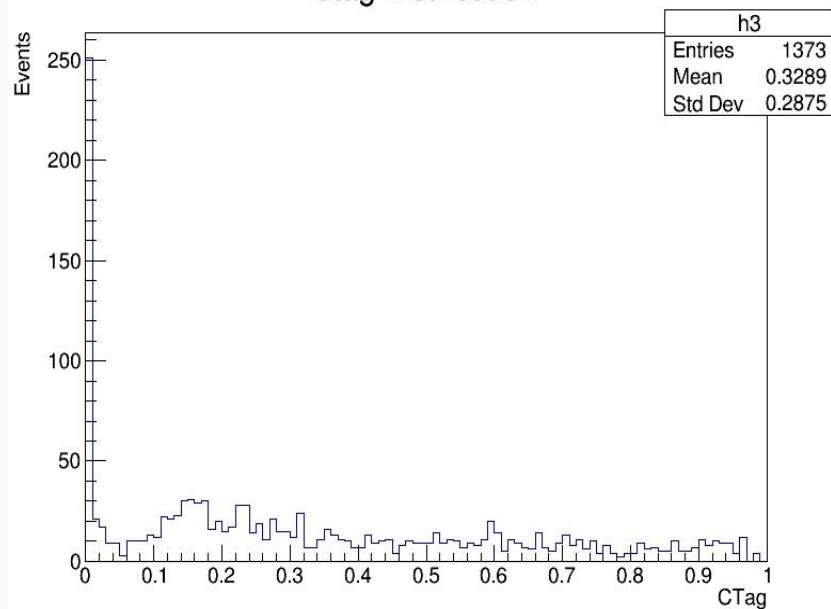
P1 (PDGID == 4)

Ctag Distribution



P2 (PDGID == 4)

Ctag Distribution



Thanks For Your Attention