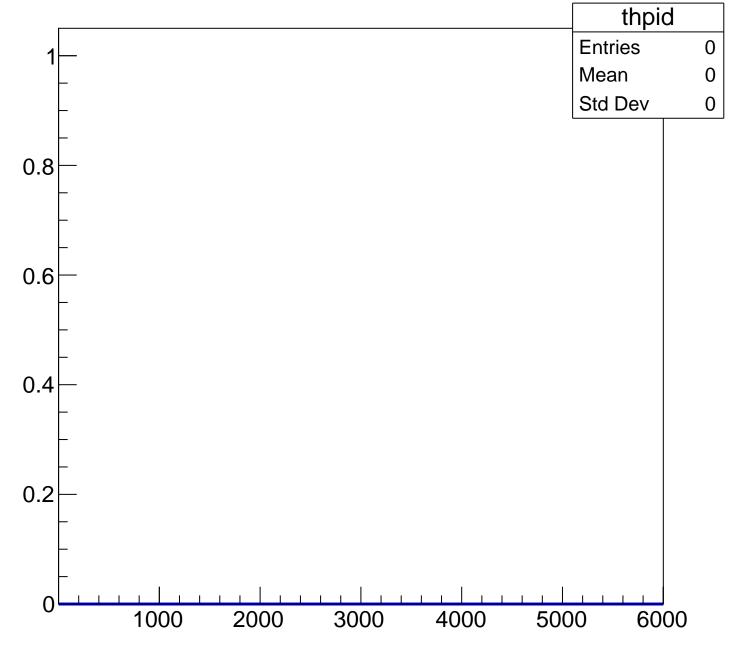
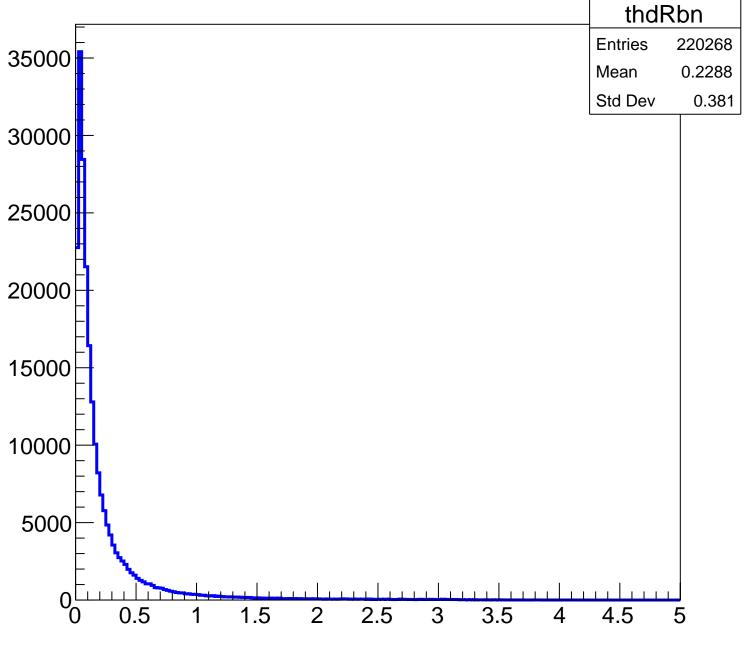
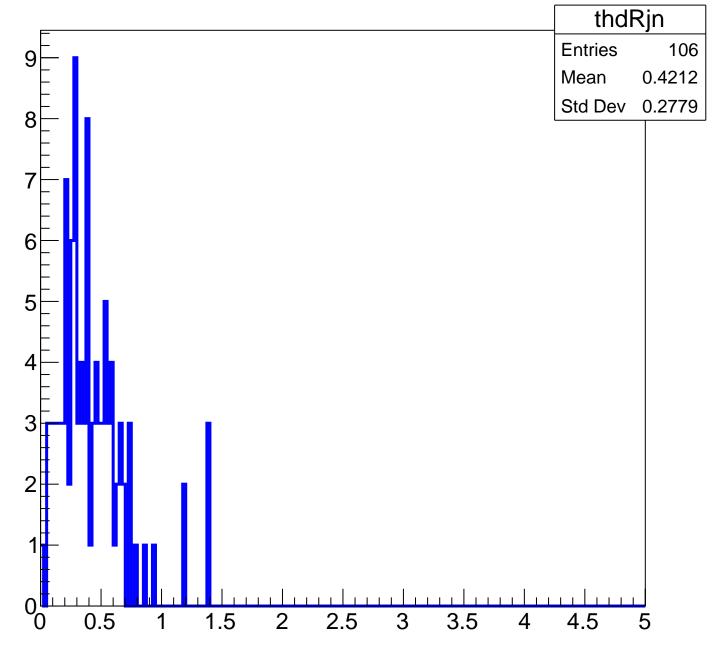
## abs(PID)



# $\Delta R$ (b-hadron,v)



### $\Delta R$ (AK8 jet,b-hadron)



### $\Delta R$ (AK8 jet,v)

