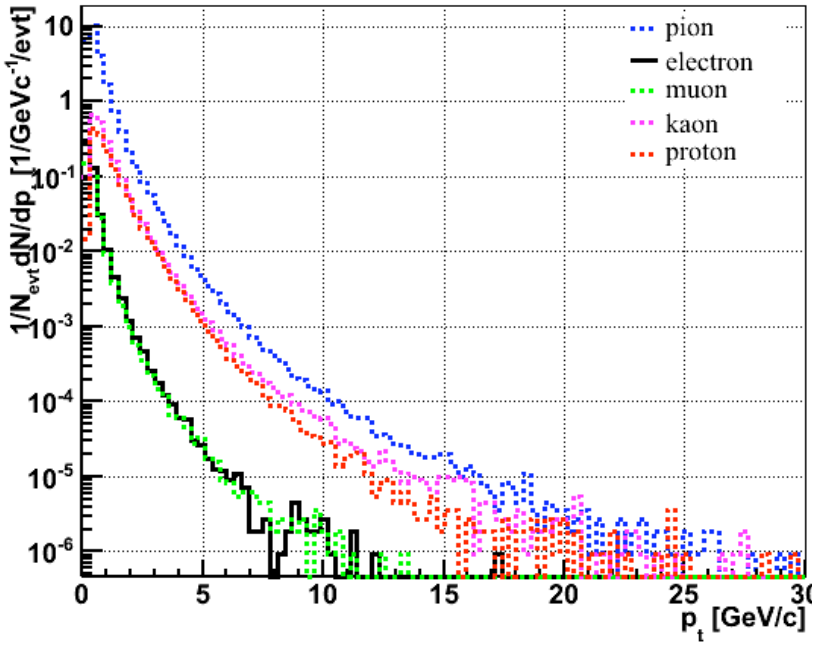
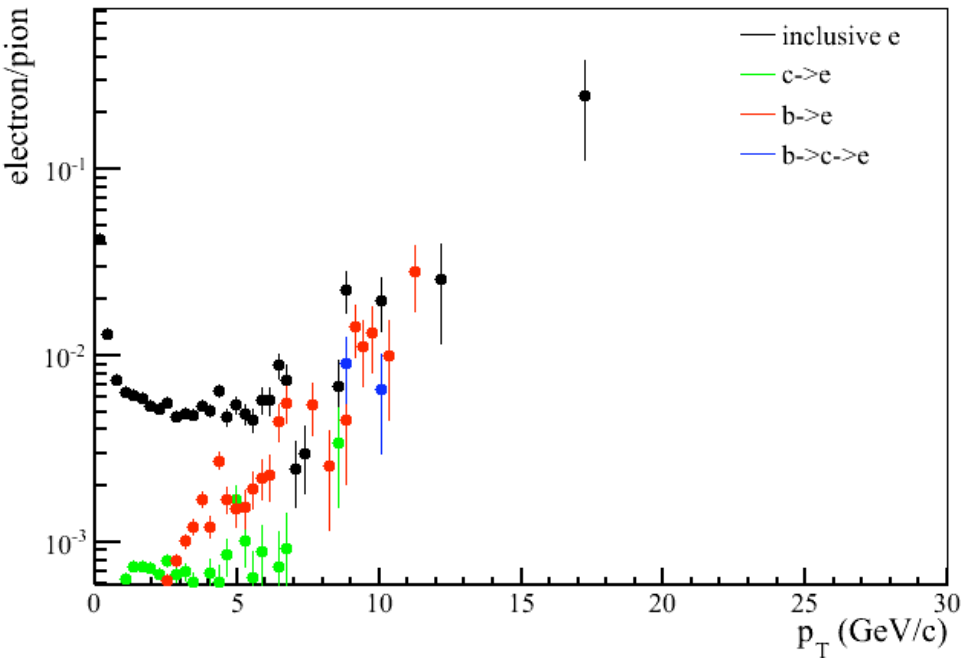
Cut/Method to increase S/B for heavy(or beauty) electron

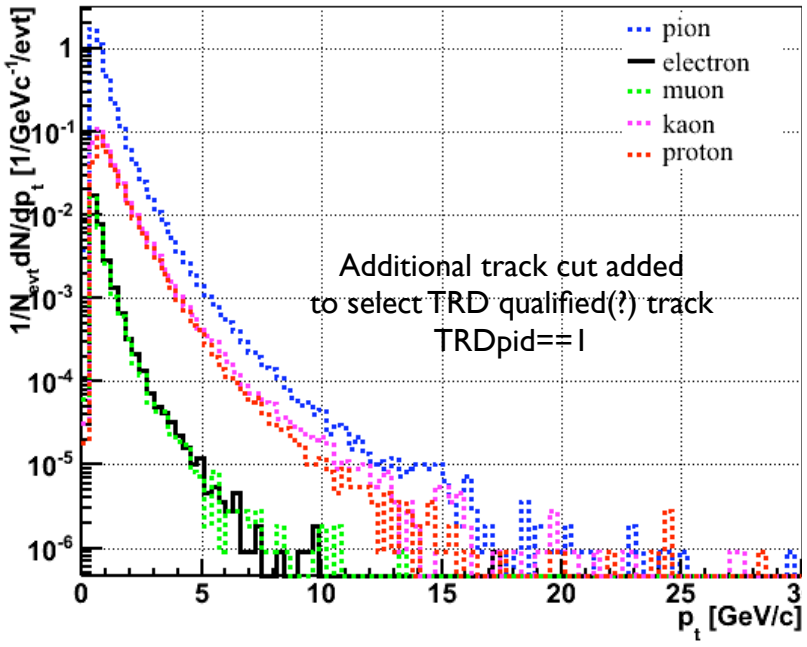
MinJung Kweon

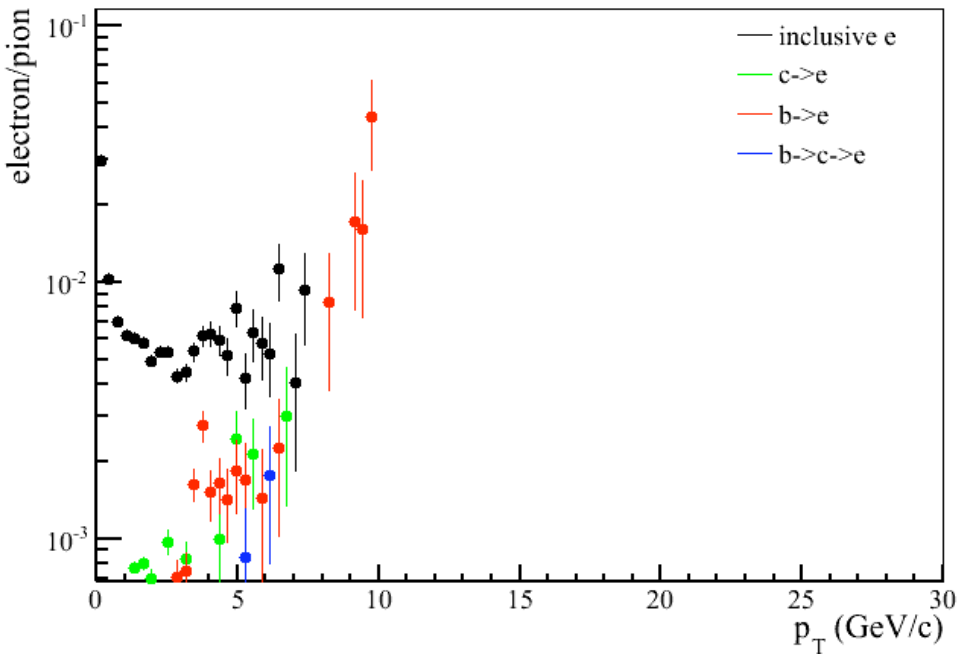
Yield(vs. pT) of different species and electron/pion ratio after "single track cut" [1]
(pid: using mcPID not to be bothered yet by pid efficiency - same for the rest of the slides)



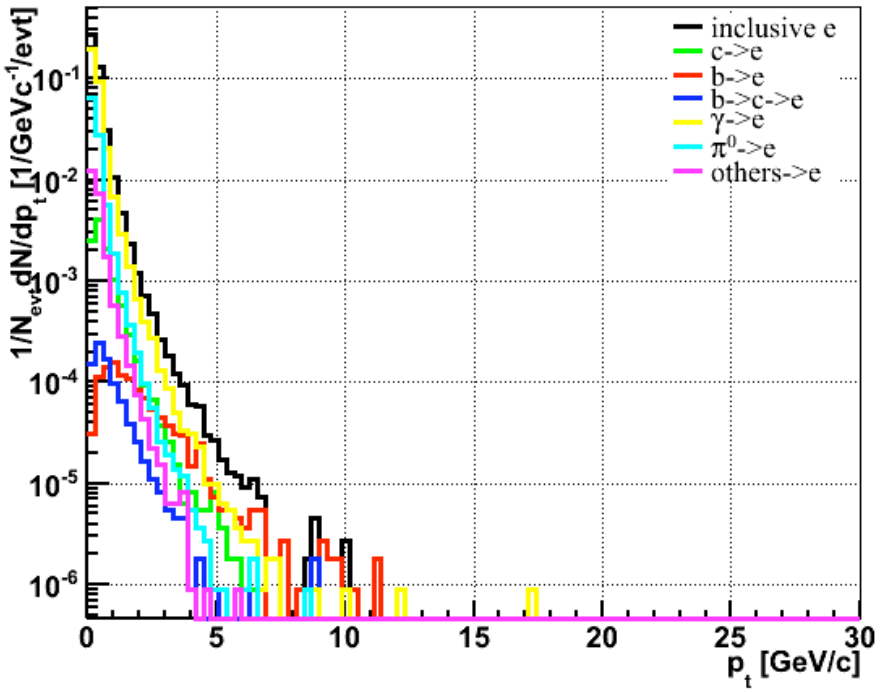


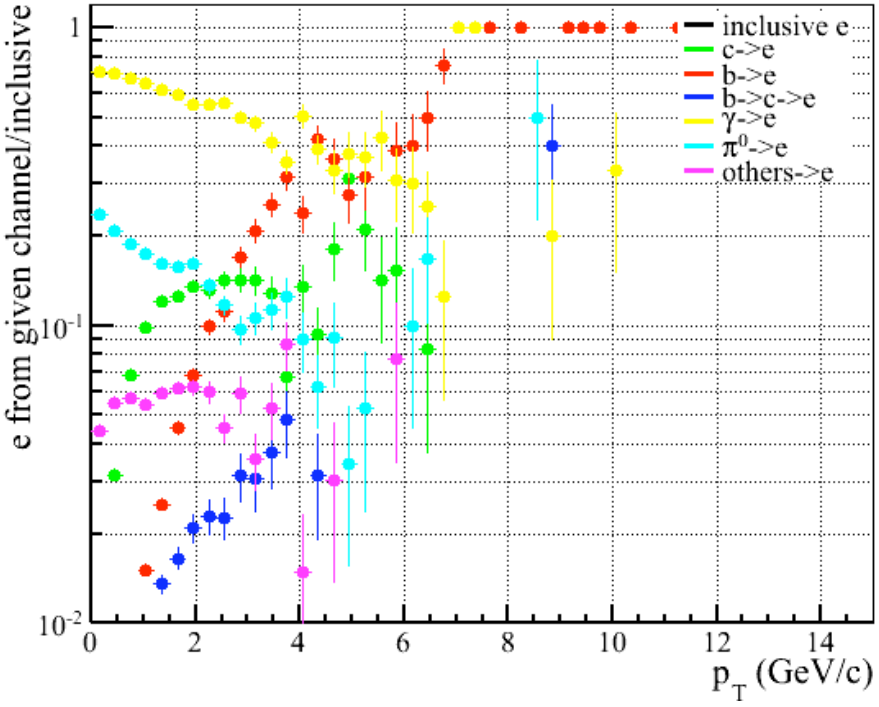
Yield(vs. pT) of different species and electron/pion ratio after "single track cut" [2]





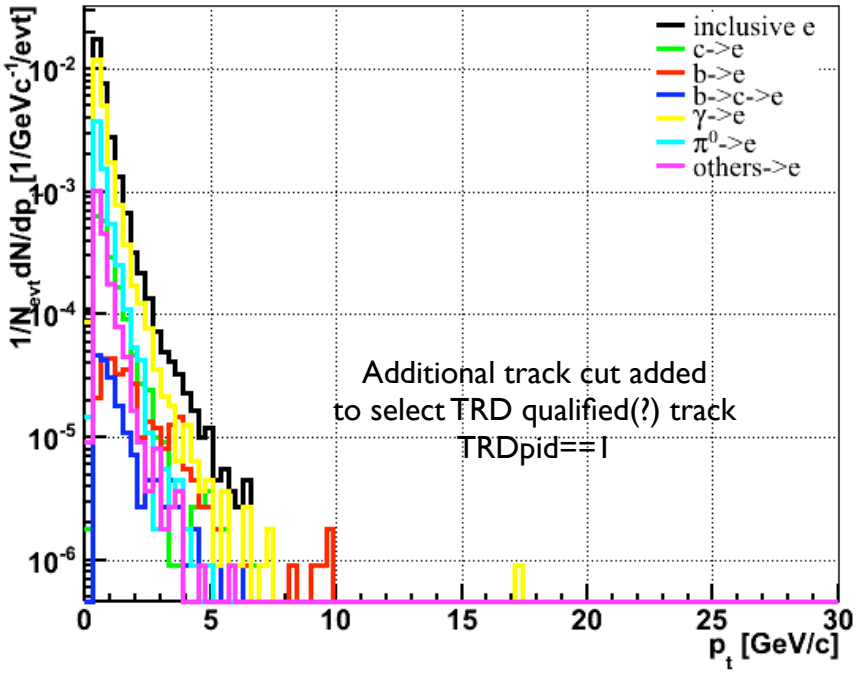
signal and background electrons [1]

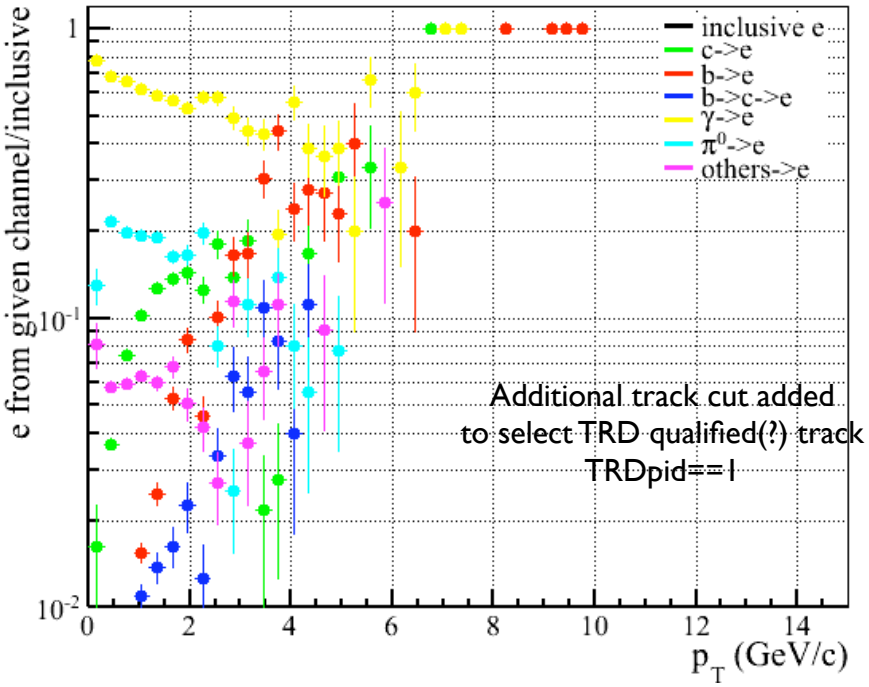




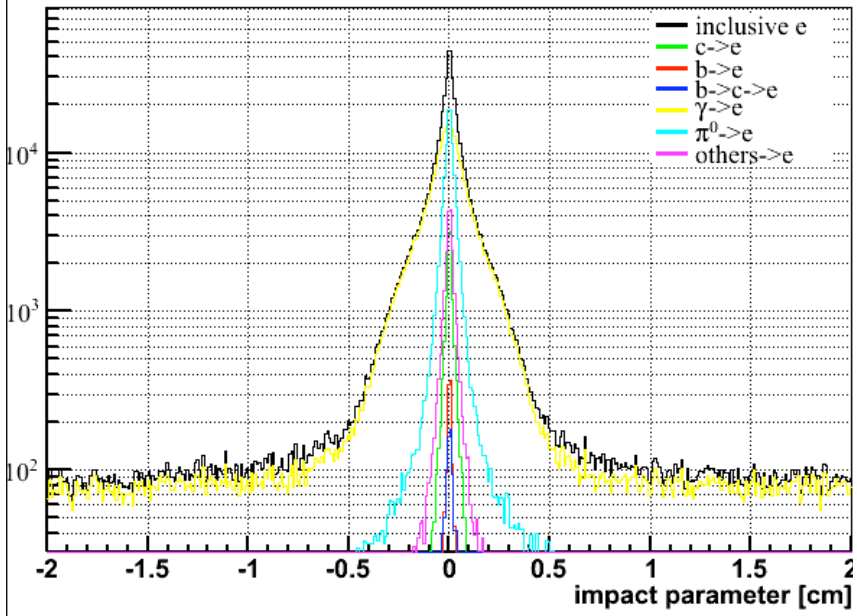
cuts/method to increase S/B ratio

signal and background electrons [2]

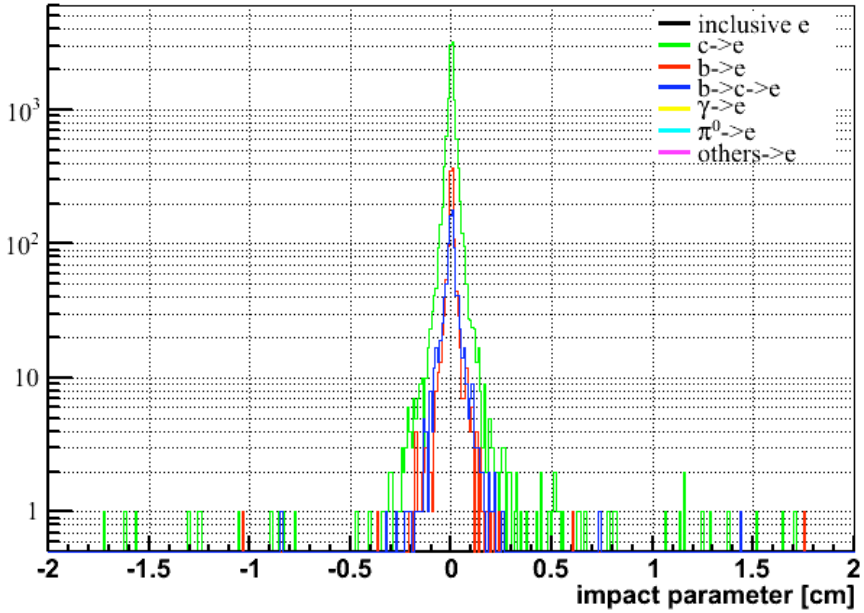




Impact parameter distribution for signal and background electrons [1]

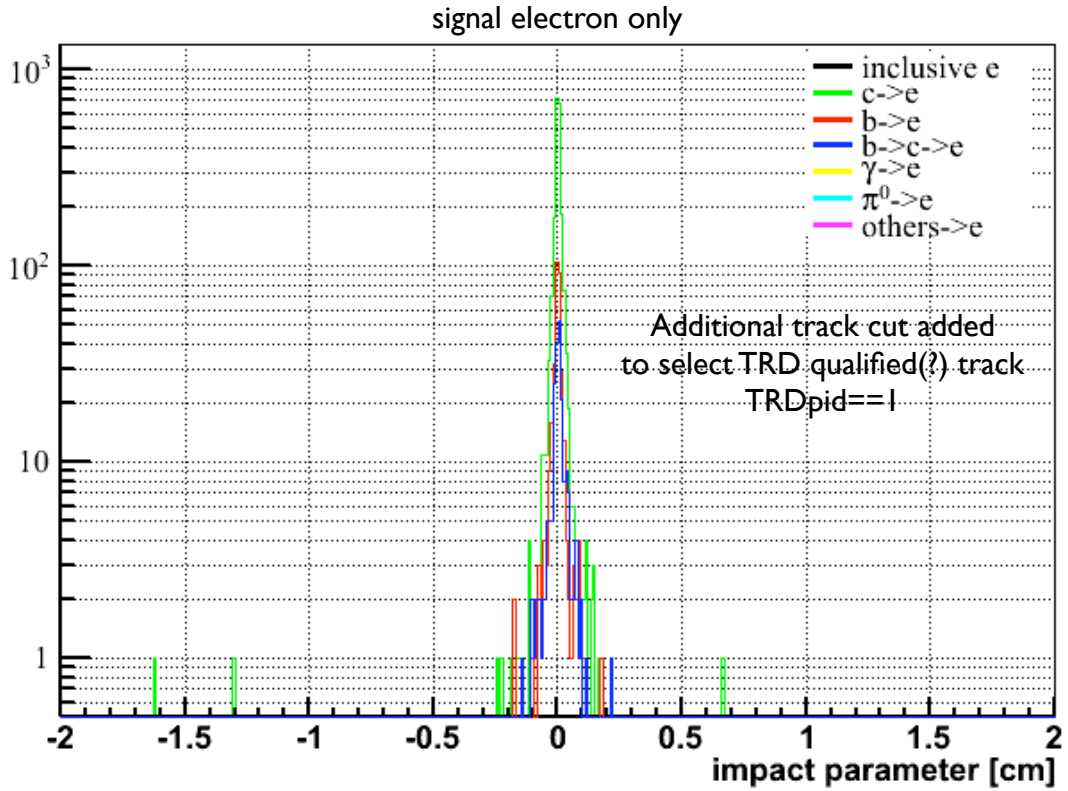


signal electron only

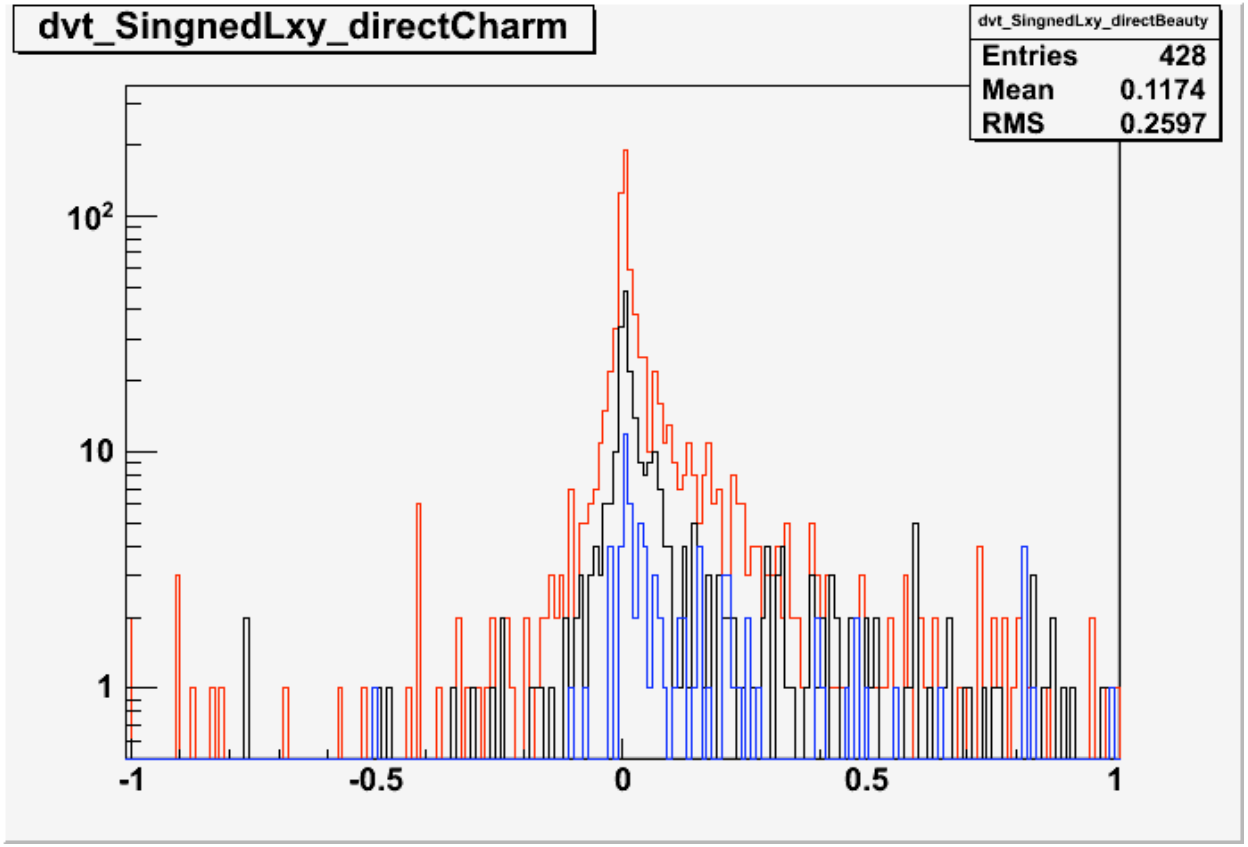


will check with minimum pT cut

Impact parameter distribution for signal and background electrons [2]



Displaced vertex(signedLxy) for charm and beauty



quasi-invariant mass for charm and beauty by displaced vertex method