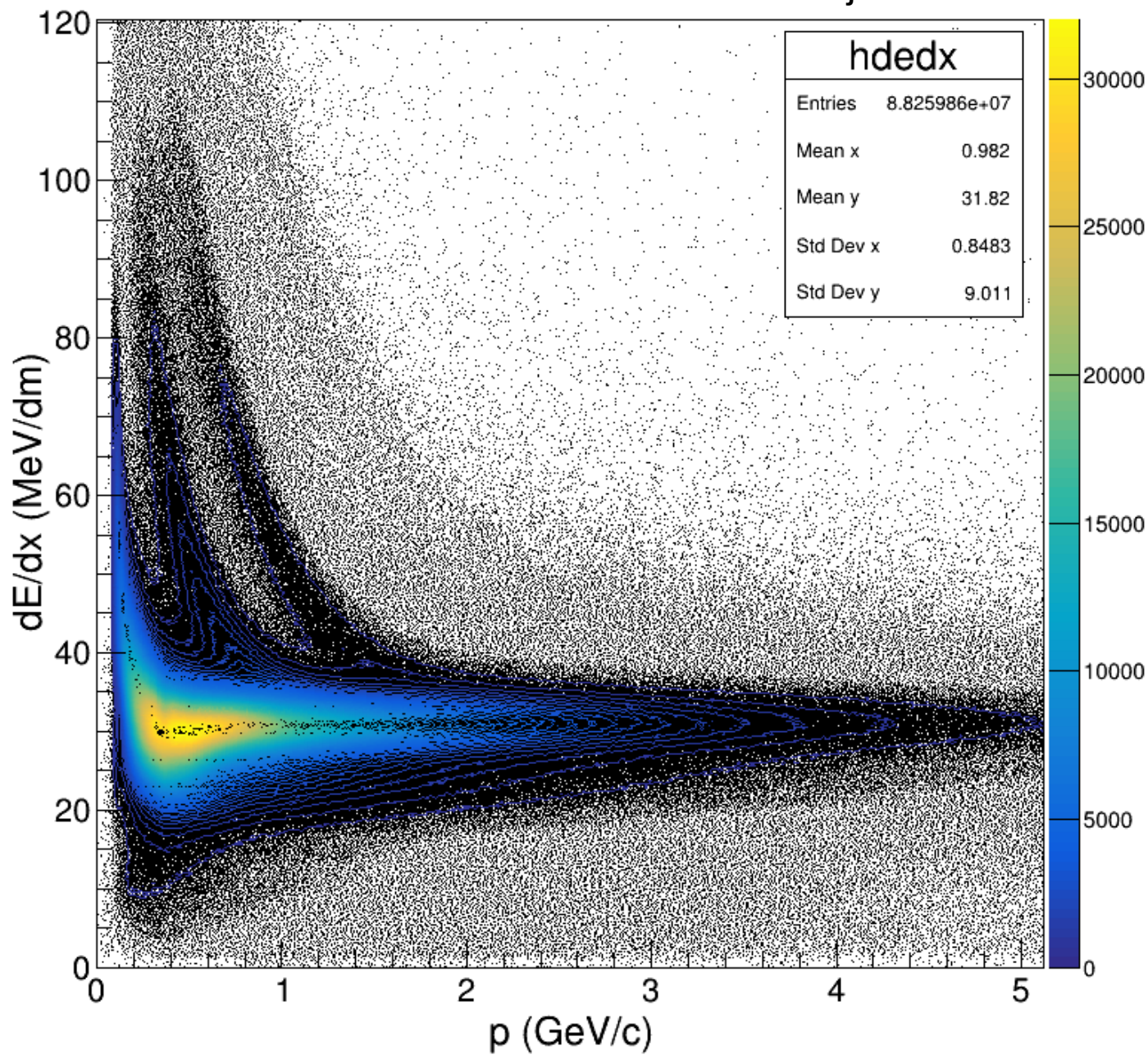


2015 data, no cuts

dE/dx vs p

job#423

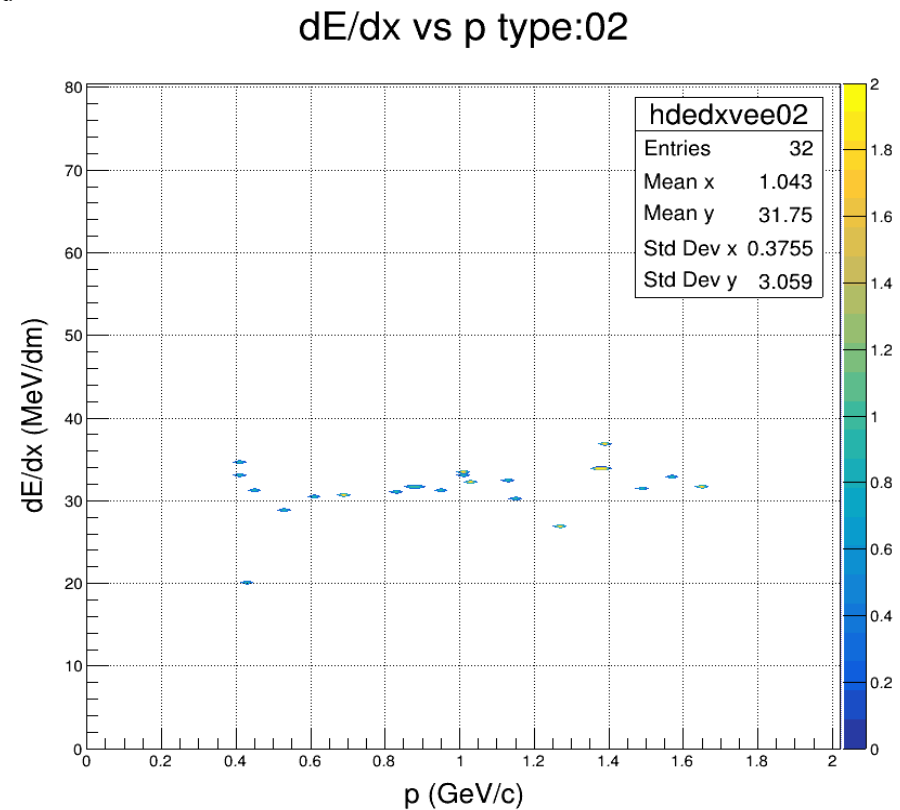
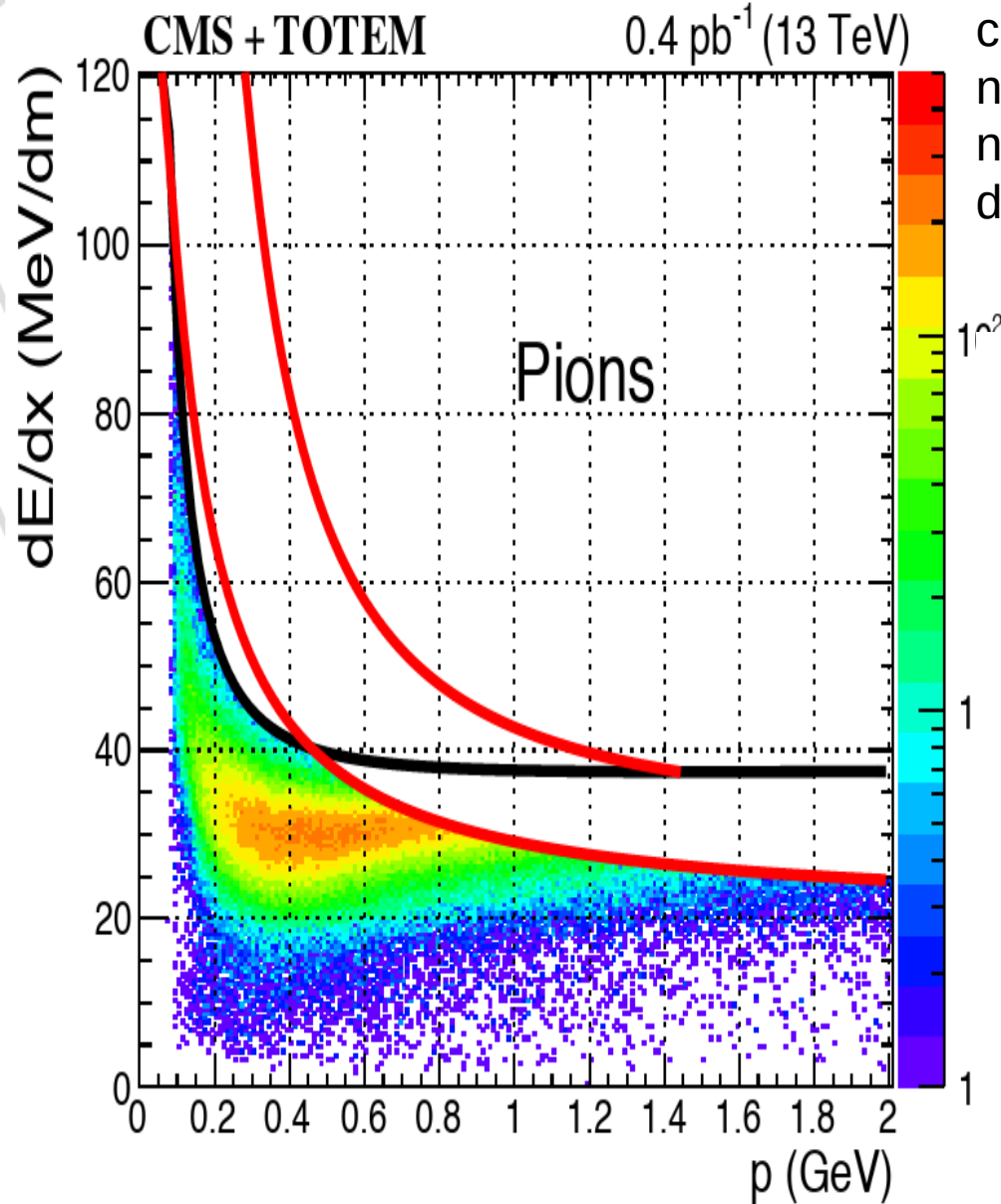


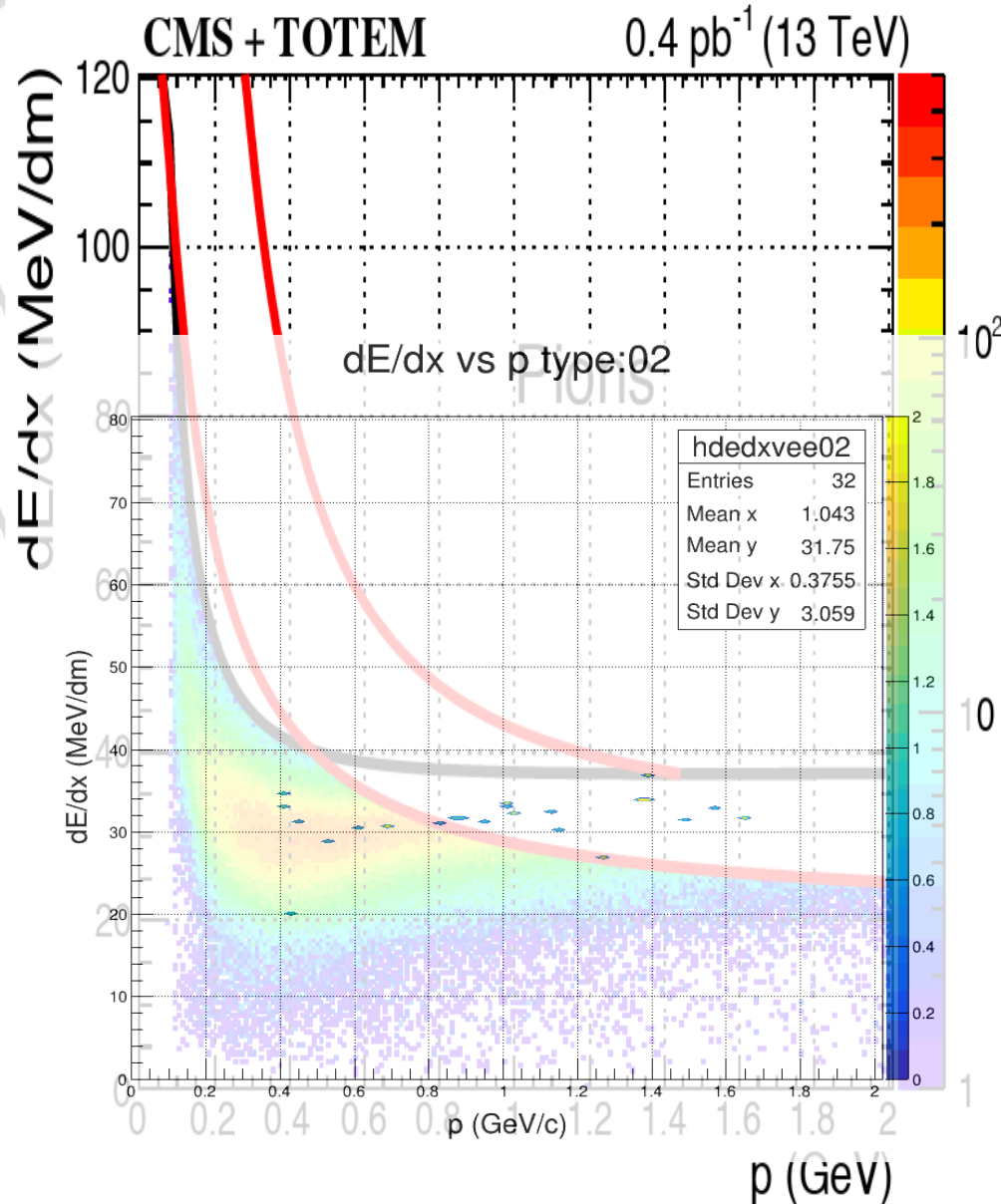
notation: type:11 events = 1 primary vertex **and** 1 V0
type:02 events = no primary vertex **and** 2 V0s
nvtx = number of vertices/event from the primary vertex collection
nks = number of V0s/event from the secondary vertex collection

dE/dx algorithm within the event loop:

```
for(vector<MyTracks>::iterator itTrack = track_coll->begin() ; itTrack != track_coll-
>end() ; ++itTrack){
    int npixelhitsvee = itTrack->nValidPixelHits;
    if(npixelhitsvee>0){
        if(fiducialRegion && fiducialRegionPt && fiducialRegionK &&
fiducialRegionPtK && totcharge==0 && isKshort && nvtx==1 && nks==1 &&
nlam==0){
            histosTH2F["hdedxvee11"]->Fill(itTrack->p,itTrack->harmonic2_dEdx);}

            if(fiducialRegion && fiducialRegionPt && fiducialRegionK &&
fiducialRegionPtK && totcharge==0 && isKshort && nvtx==0 && nks==2 &&
nlam==0){
                histosTH2F["hdedxvee02"]->Fill(itTrack->p,itTrack->harmonic2_dEdx);}
            }
        }
    }
```





2015 4-track events
type:02 events - 2 Vees no primary

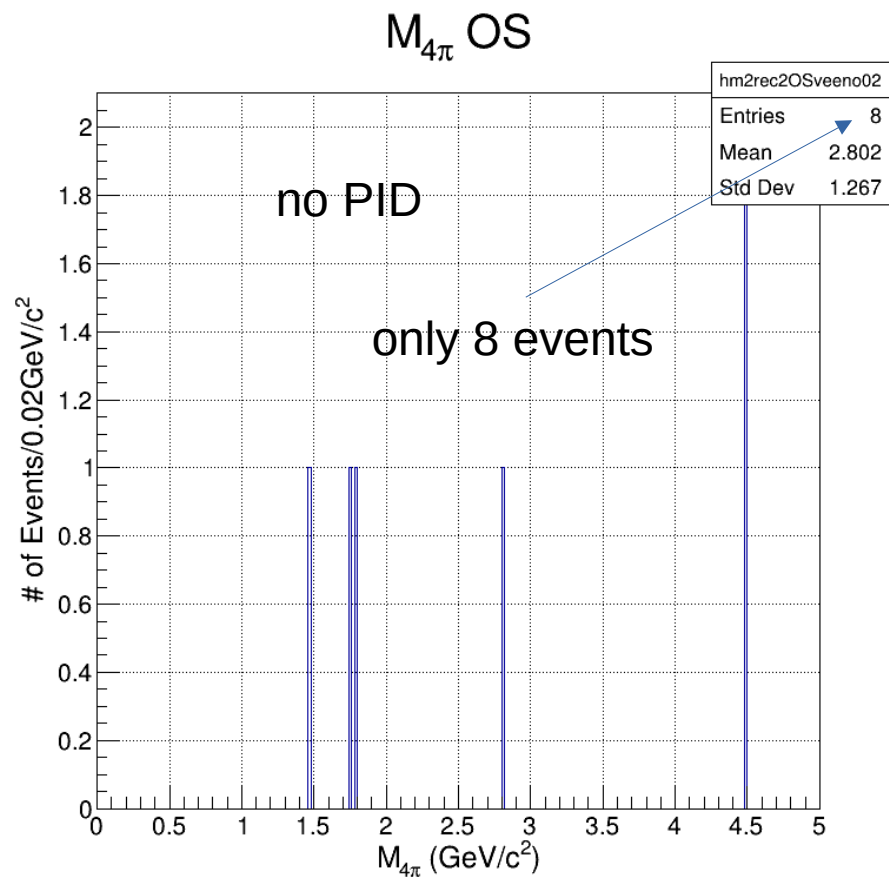
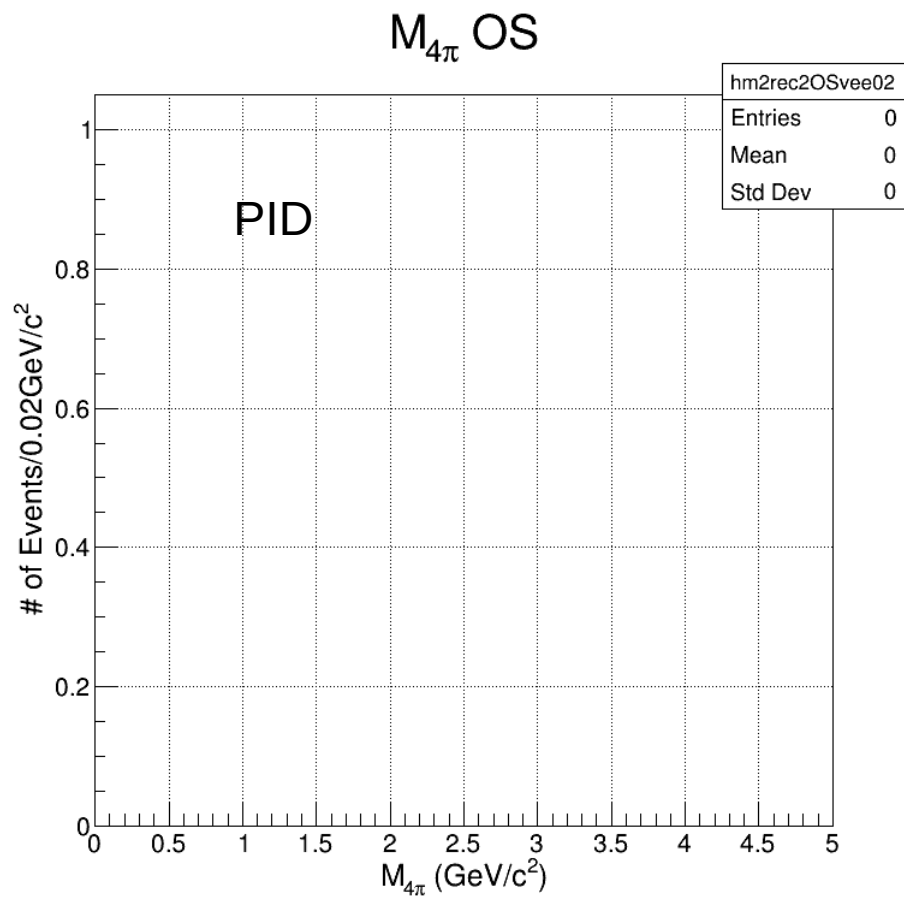
cuts:
ntrk=4 Q=0
isKshort=true
ntvx=0
nks=2

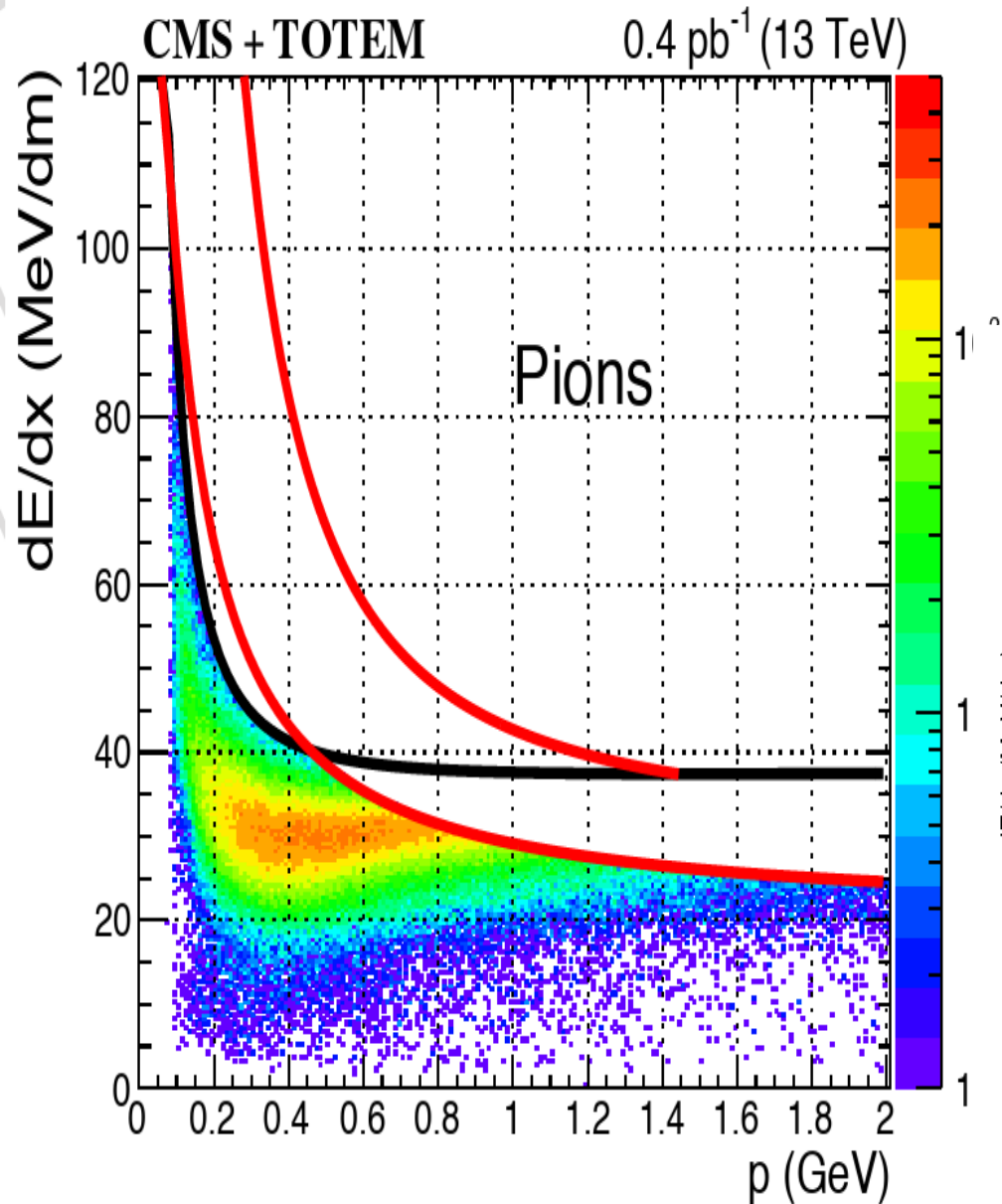
We have only 8 events with 2 Vees.

dE/dx algorithm is rejecting K0sK0s events

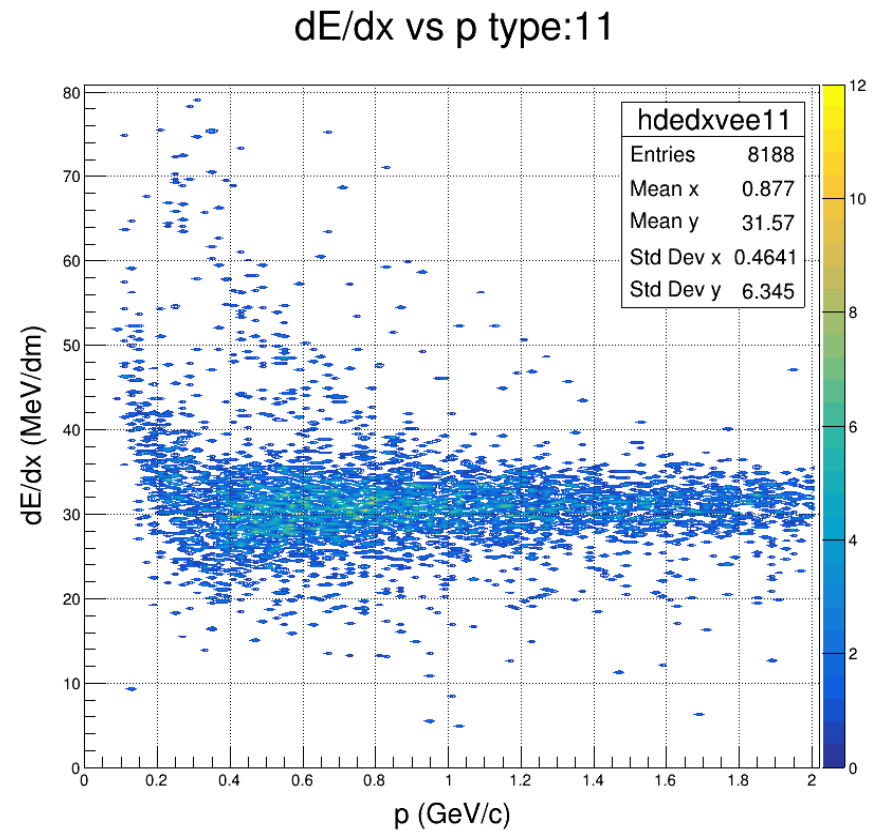
superimposed scatter plots with the same scale

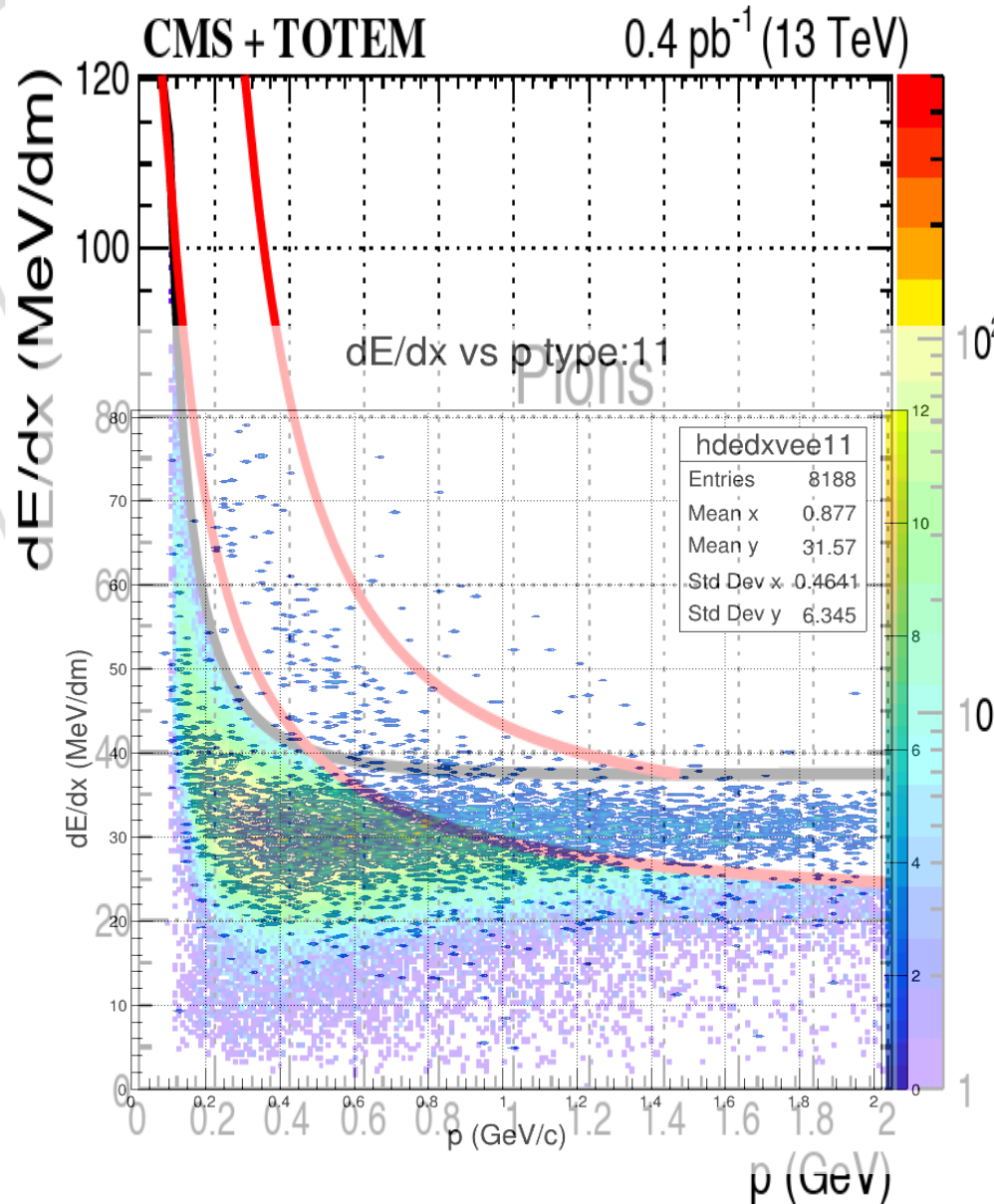
type:02 events – K0sK0s





type:11 events 1 primary and 1 Vee
 cuts:
 ntrk=4 Q=0 isKshort=true
 ntvx=1 nks=1
 dE/dx algorithm is rejecting most of the
 K0sK* events



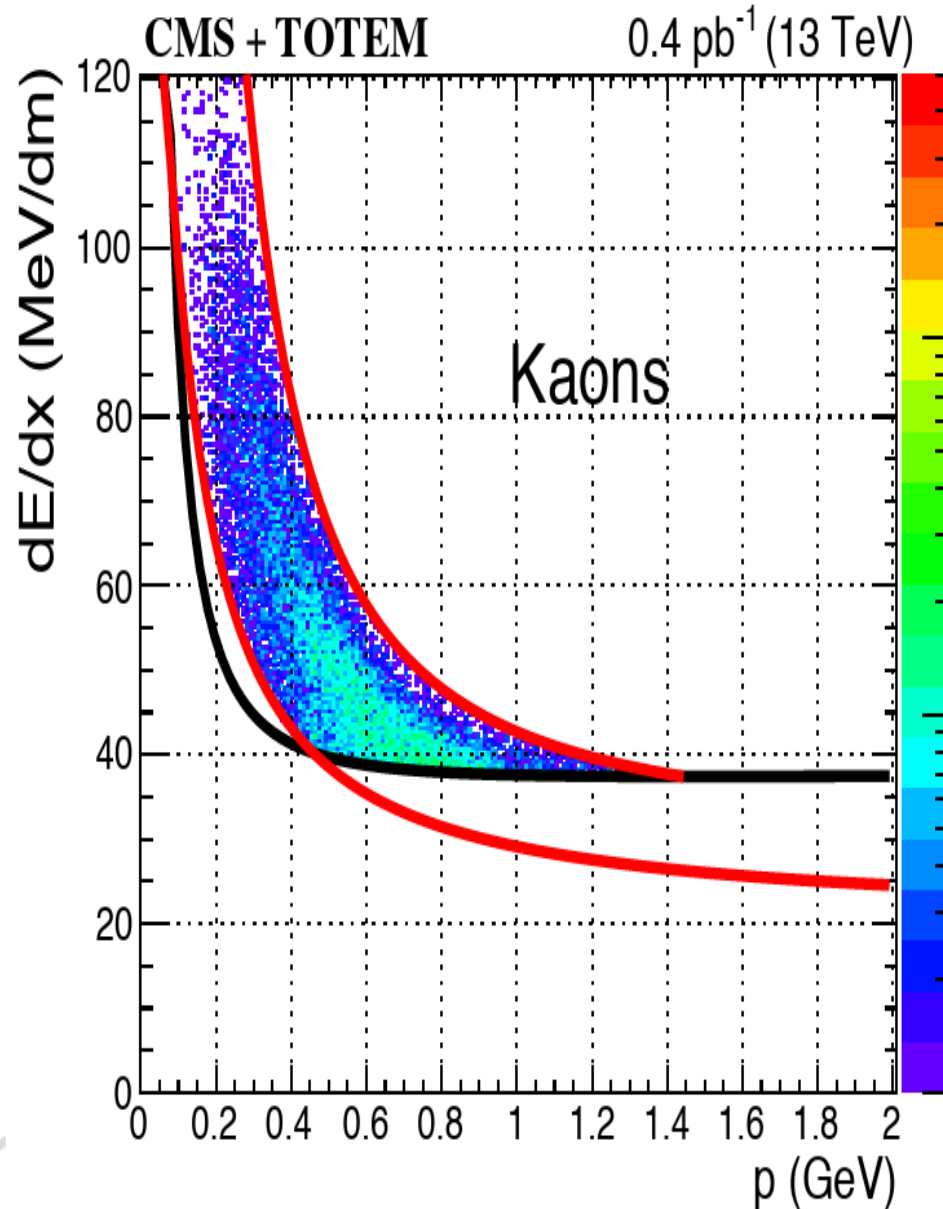


type:11 events
1 primary and 1 Vee

cuts:
ntrk=4 Q=0
isKshort=true
ntvx=1 nks=1

dE/dx algorithm is rejecting most of the $K0sK^*$ events

superimposed scatter plots with the same scale



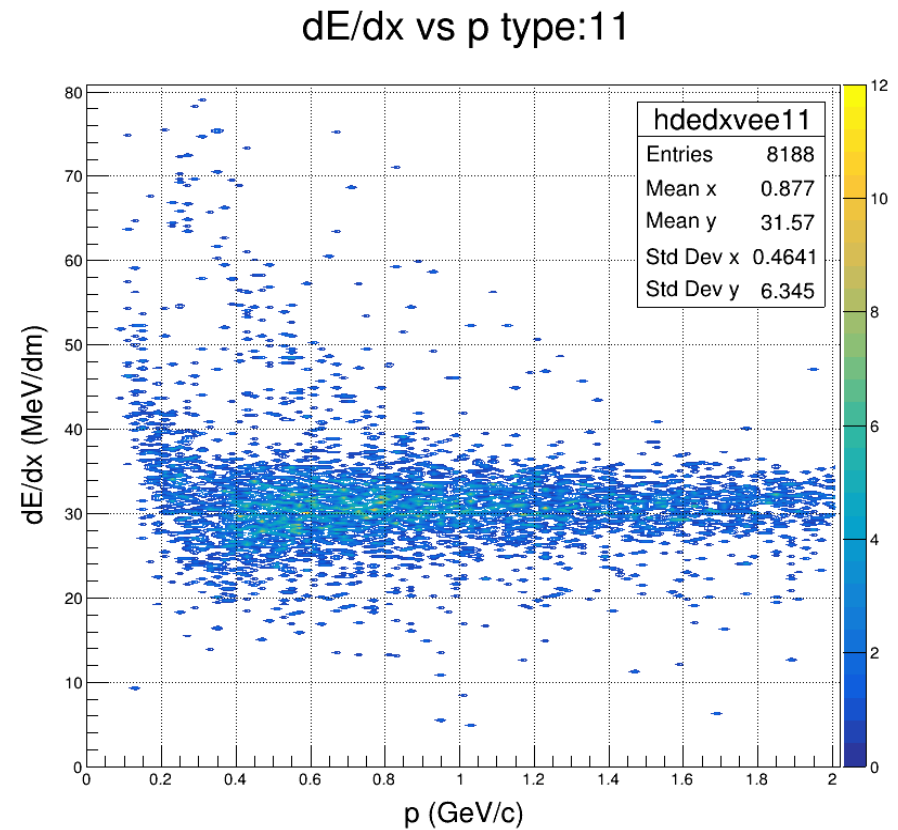
type:11 events 1 primary and 1 Vee

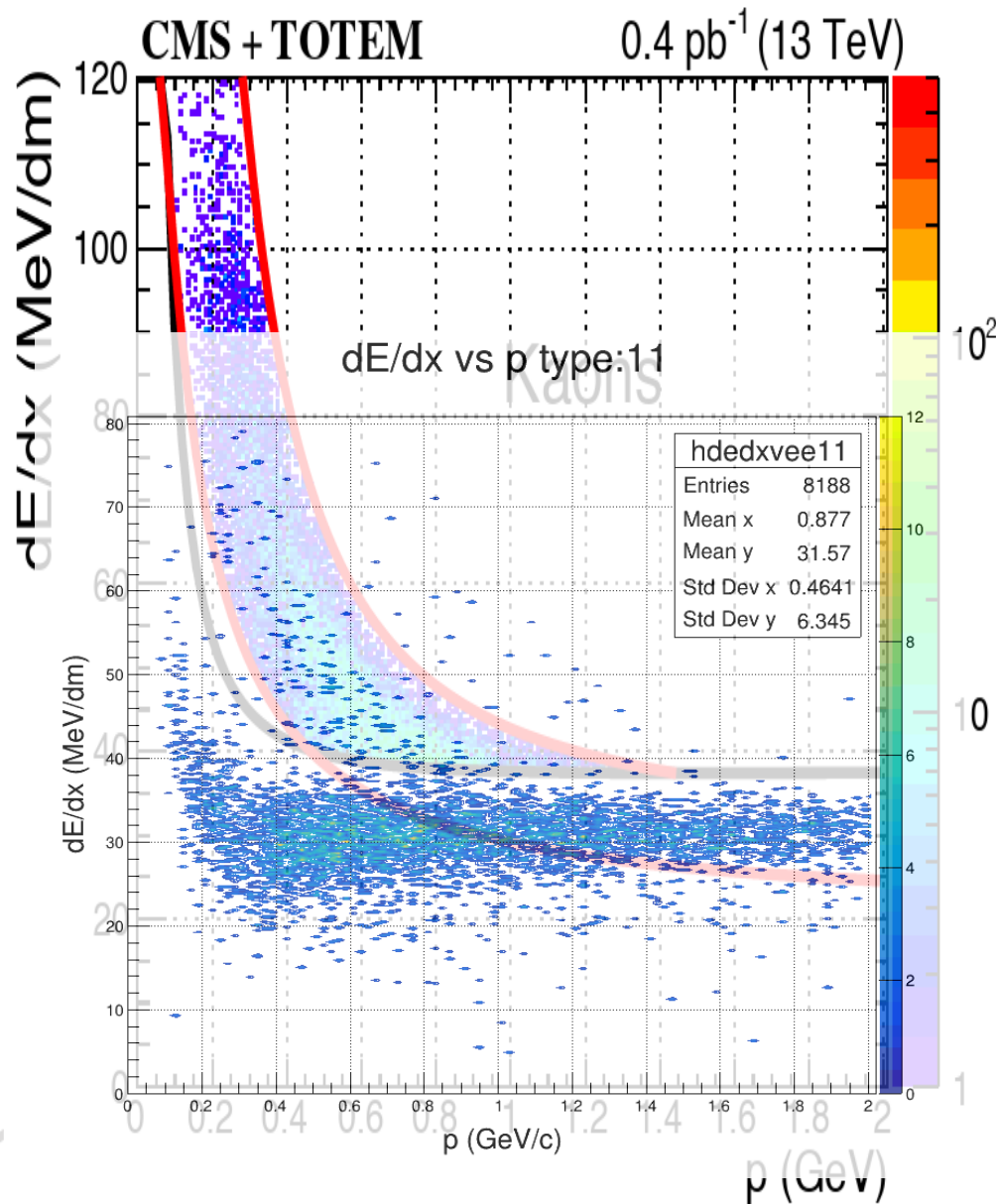
cuts:

ntrk=4 Q=0 isKshort=true

ntvx=1 nks=1

dE/dx algorithm is rejecting most of the K0sK* events





type:11 events
1 primary and 1 Vee

cuts:
ntrk=4 Q=0
isKshort=true
ntvx=1 nks=1

dE/dx algorithm is rejecting most of the $K0S^*$ events

superimposed scatter plots with the same scale