General information – 2-track sample:

Number of triggers = 6,324,470

Number of those events with exactly one valid proton in each direction = 4,289,310

Number of those events with exactly 2 tracks = 2,702,788

Number of events with exactly 2 tracks 1 vertex = 2,349,970

Number of events with exactly 2 tracks with Q=0 = 2,263,282

Number of events with exactly 2 tracks 1 vertex fiducial Q=0 = 1,957,270

Number that balance in px and py (between central system and forward portions: All:

dpy entries = 2,005,918

dpy integral = 1,585,600

dpx entries = 790,126

dpx integral = 756,300

integral stands for bin sum subtracting underflow and overflow data fiducialRegion:

dpy entries = 1,418,423

dpy integral = 1,141,000

dpx entries = 611,072

dpx integral = 587,900

cuts used in this analysis:

CTpycut : $\Delta py < 0.06$

CTpxcut: $\Delta px < 0.15$

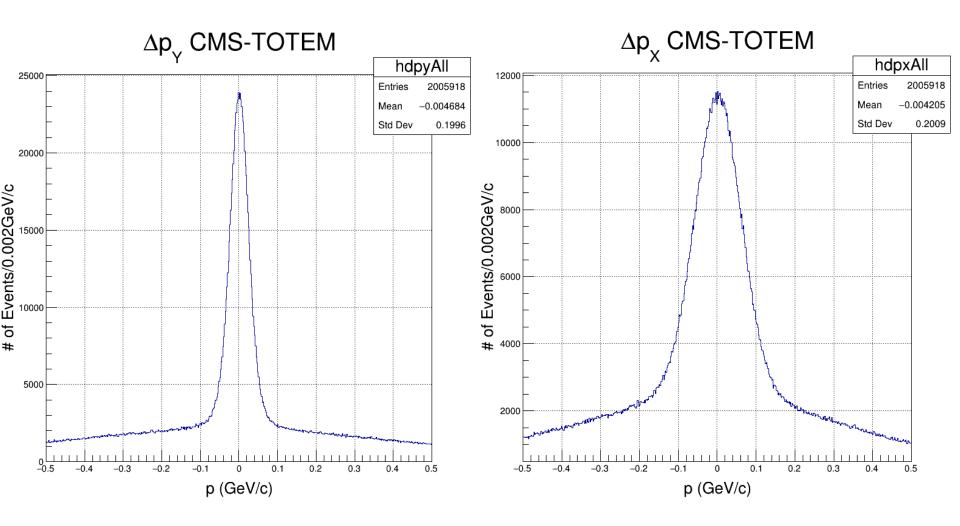
CTvertex: xvtxT = (xVtxR+xVtxL)/2

-0.04 < (xvtx - xvtxT*100) < 0.18

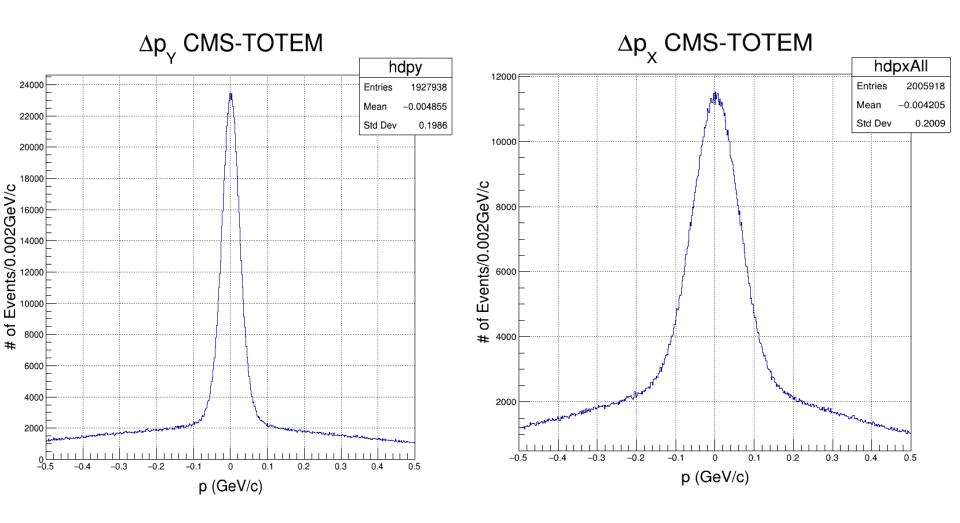
RPvertex : xVtxL - xVtxR < 0,00003

I am using these cuts in order to compare the outputs with Robert's results.

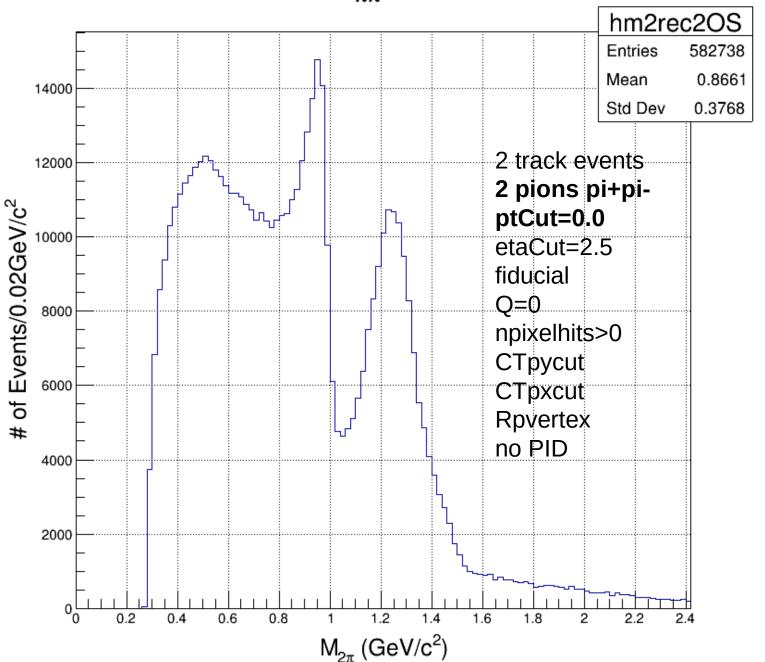
Balance: All

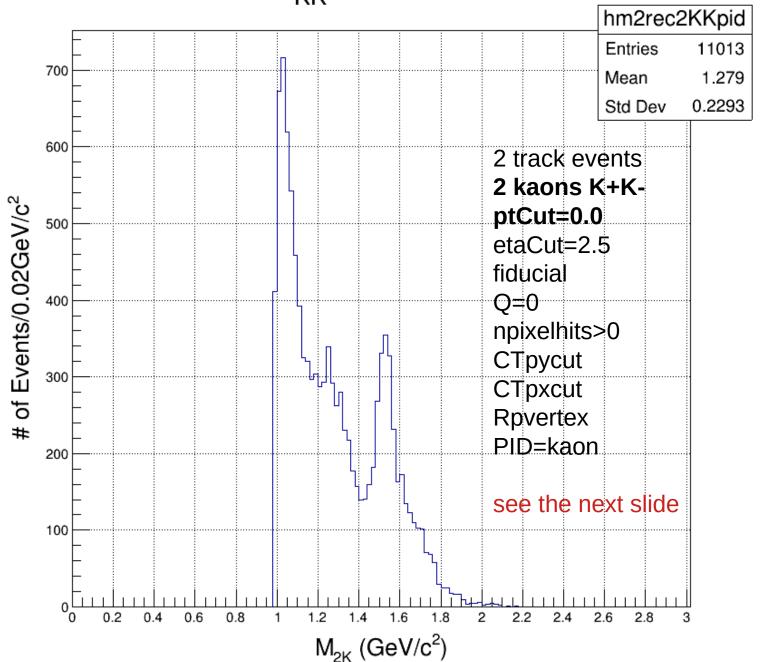


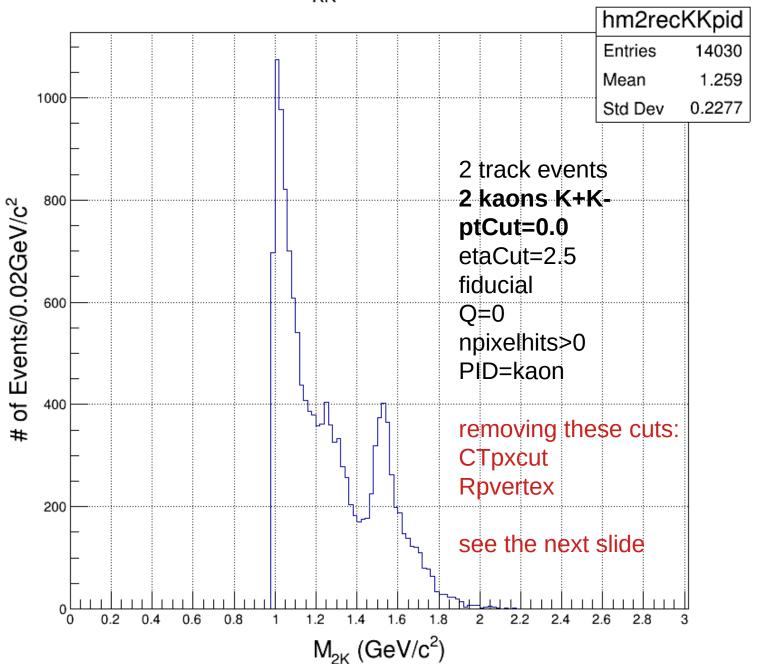
Balance: fiducial

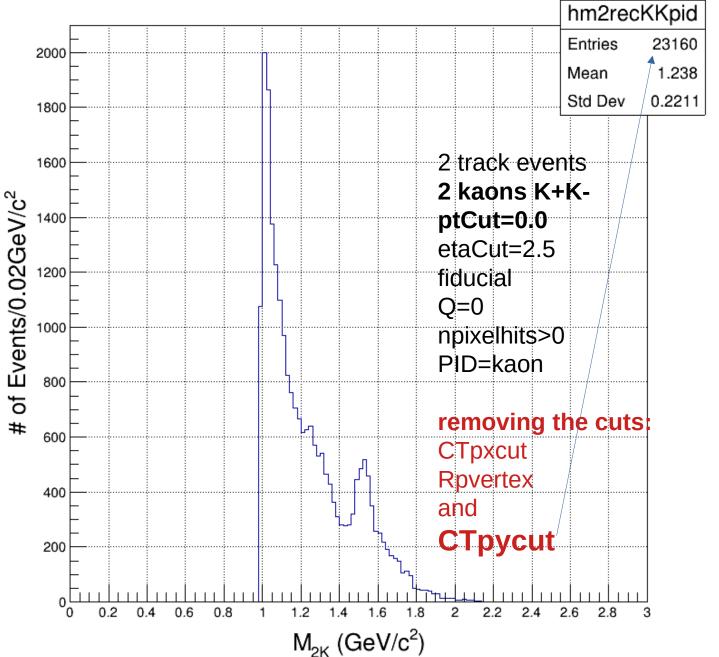


$M_{\pi\pi}$ OS

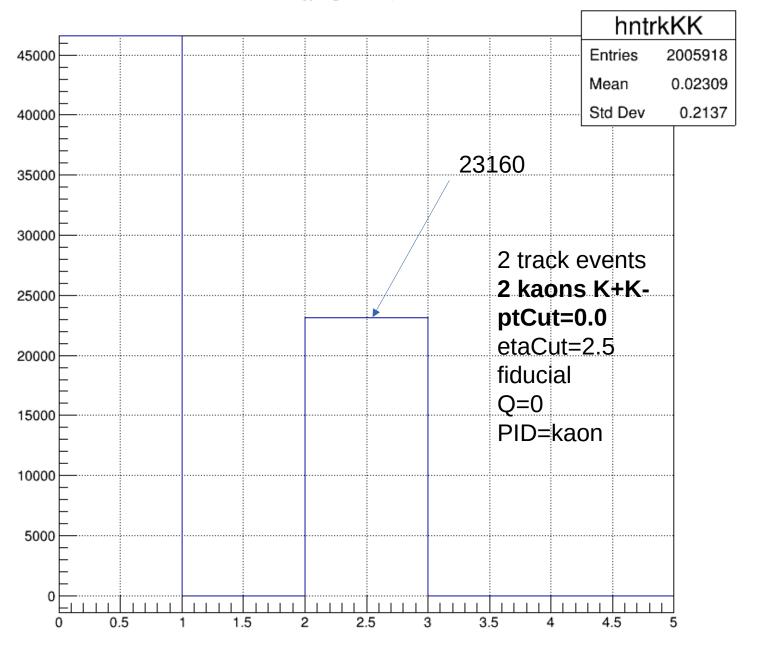




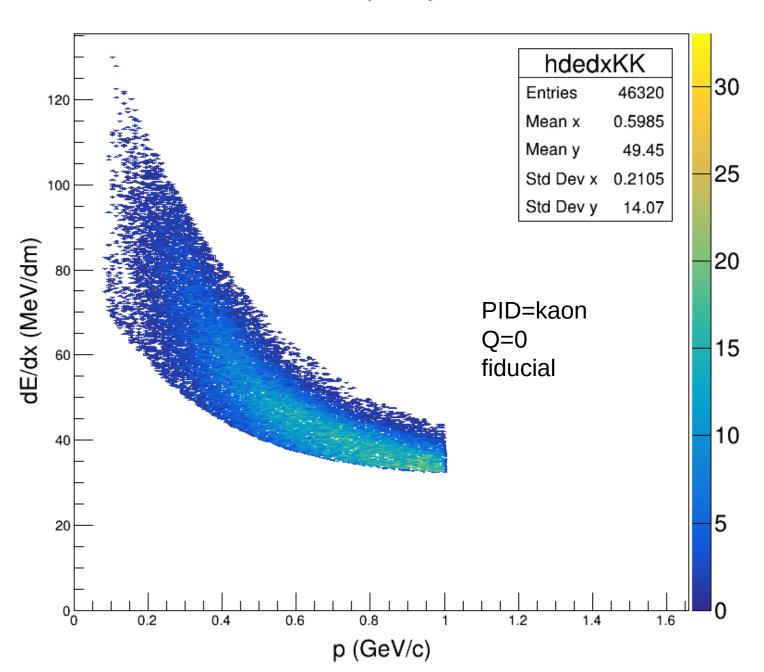




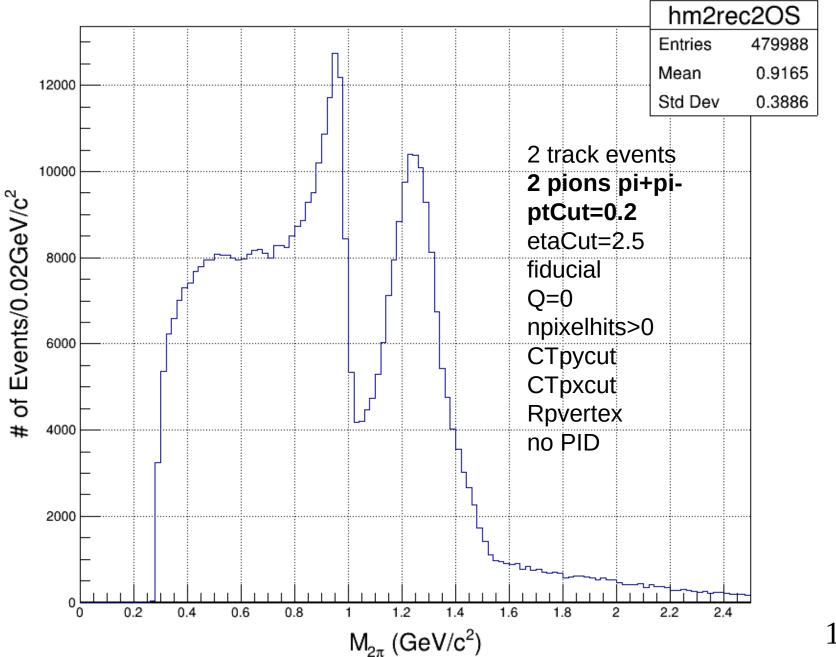
of K+K-



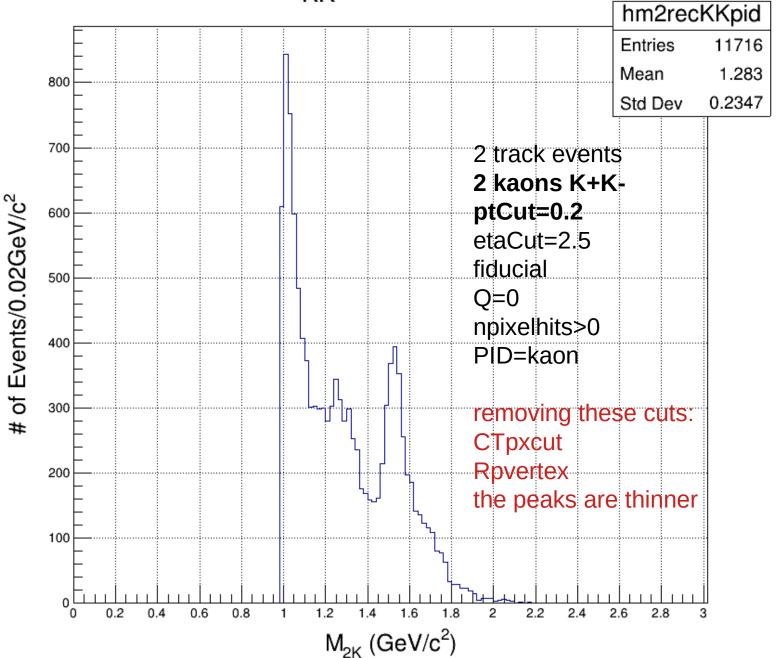
dE/dx vs p only K+K-



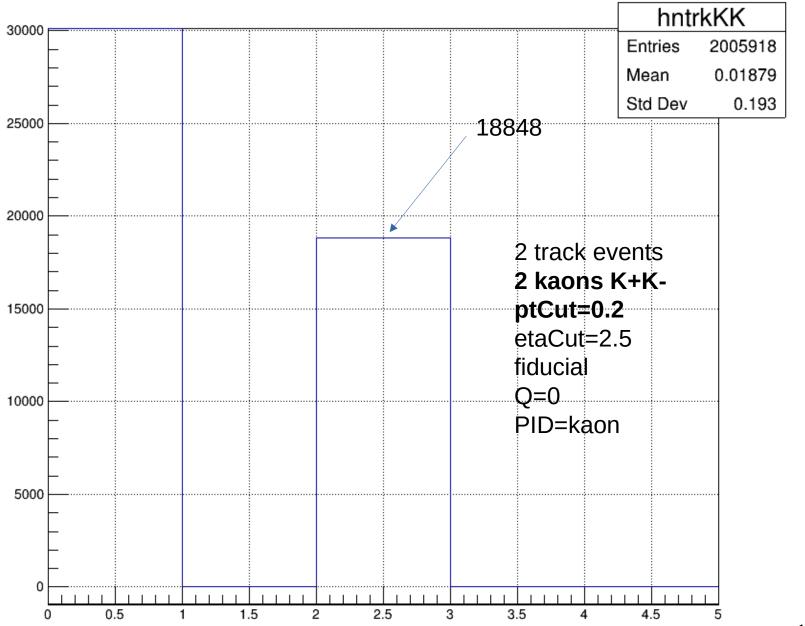
$M_{\pi\pi}$ OS



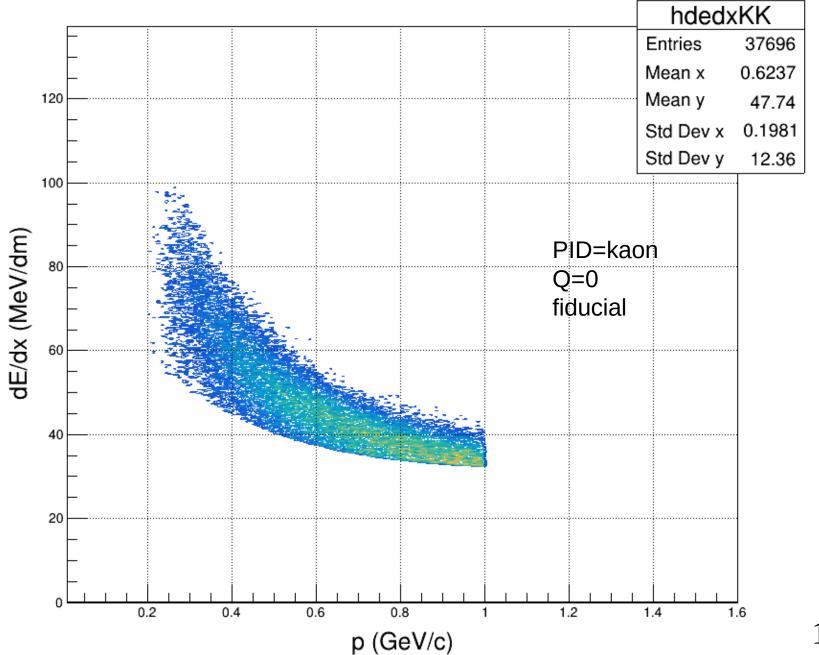
M_{KK} PID=kaon hm2rec2KKpid 600 **Entries** 9593 Mean 1.298 0.2338 Std Dev 500 2 track events 2 kaons K+K-# of Events/0.02GeV/c² ptCut=0.2 etaCut=2.5 fiducial Q=0 300 npixelhits>0 **CTpycut** Mir **CTpxcut Rpvertex** 200 PID=kaon see the next slide 100 0.2 0.6 0.8 1.2 1.4 1.6 2.8 0.4 2.2 2.4 2.6 M_{2K} (GeV/c²)

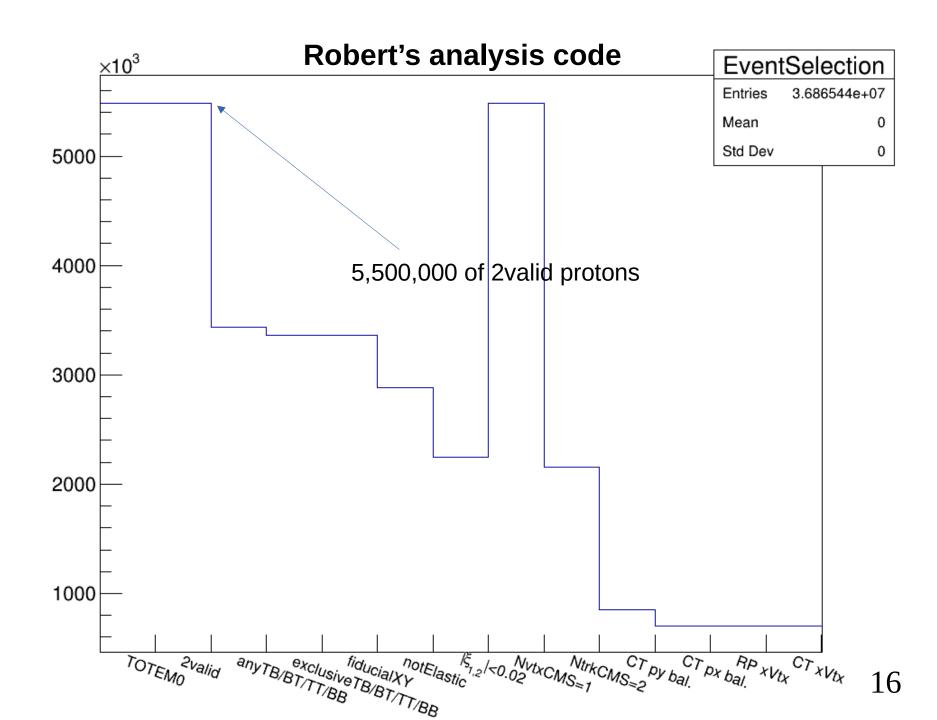


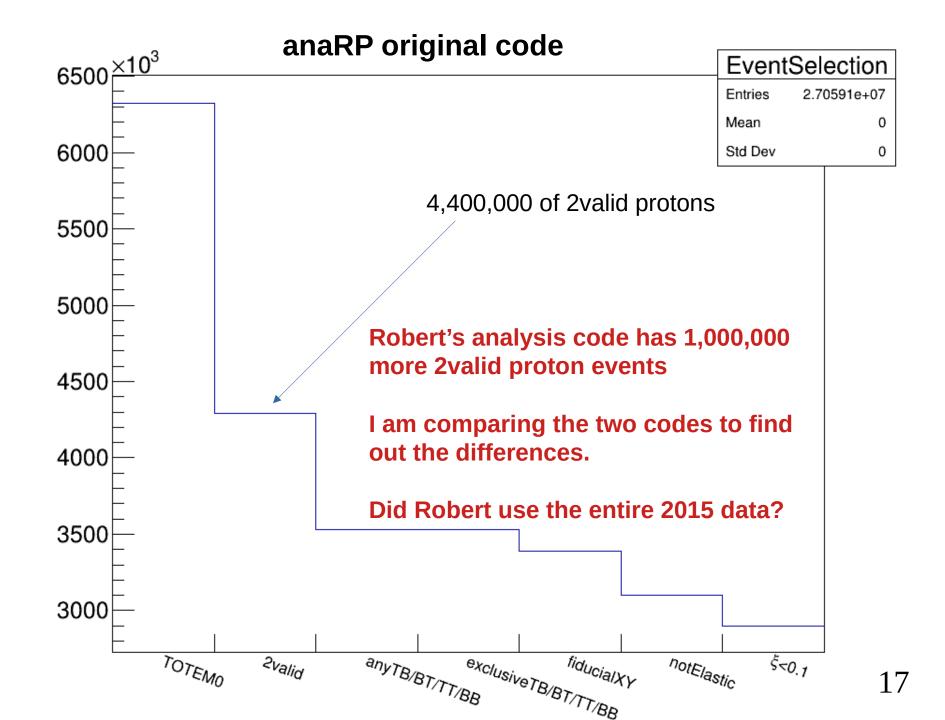
of K+K-



dE/dx vs p only K+K-







$\rm M_{KK}$ PID=kaon vs $\rm pt_{KK}$

