

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 : $\Delta p_y < 0.06$

CTpxcut : $\Delta p_x < 0.15$

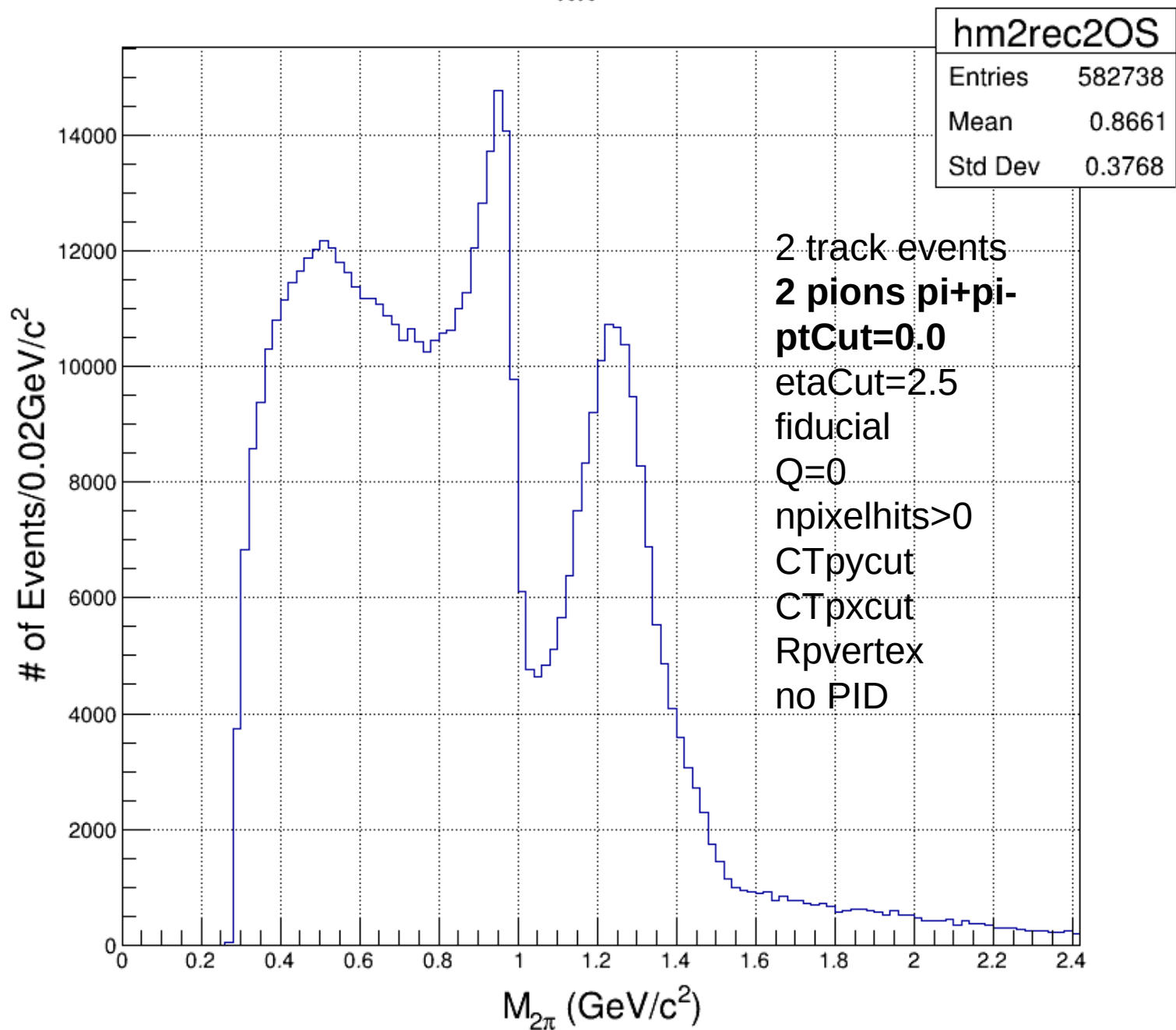
CTvertex : $x_{\text{vtxT}} = (x_{\text{VtxR}} + x_{\text{VtxL}}) / 2$

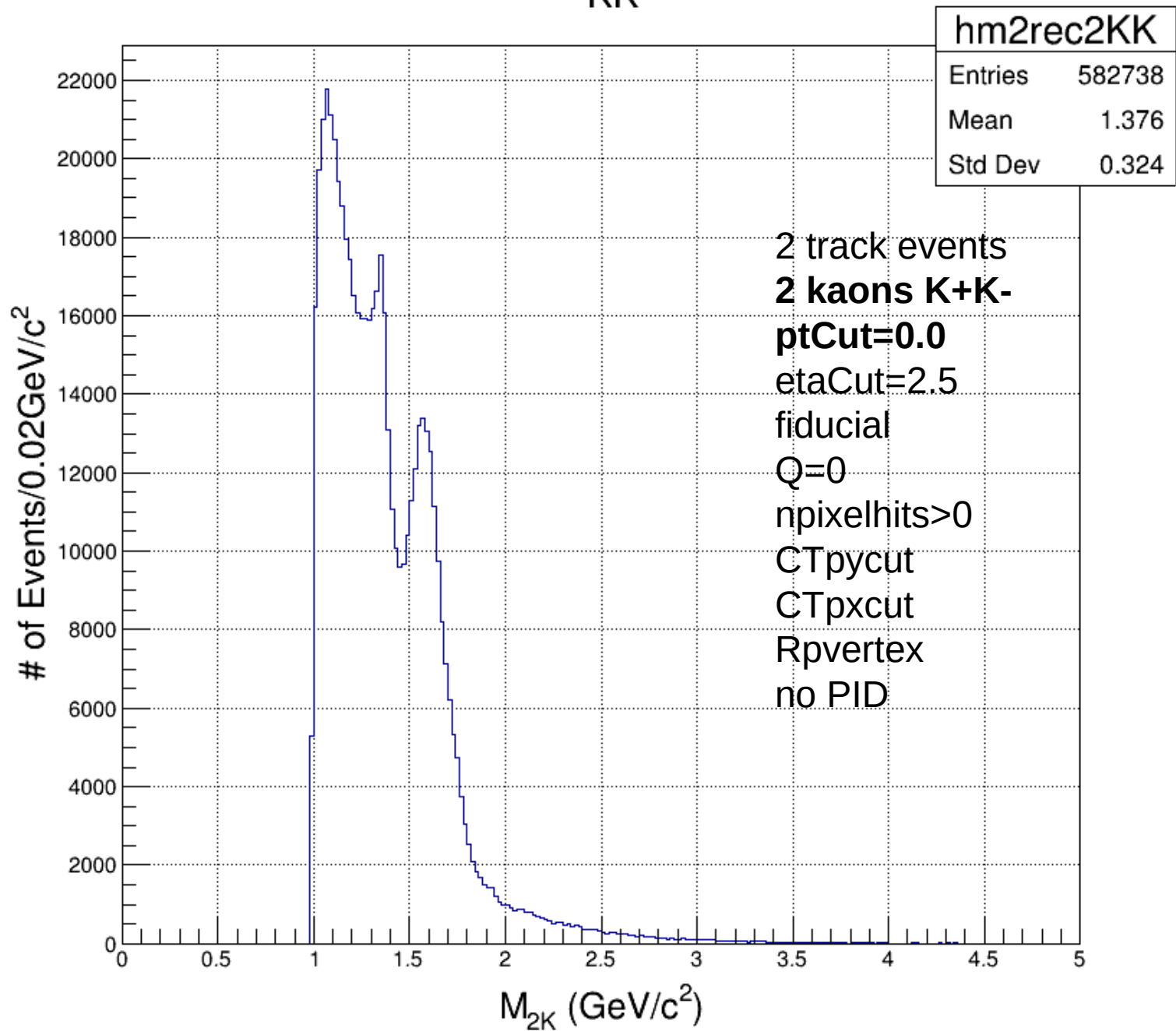
$-0.04 < (x_{\text{vtx}} - x_{\text{vtxT}} * 100) < 0.18$

RPvertex : $x_{\text{VtxL}} - x_{\text{VtxR}} < 0,00003$

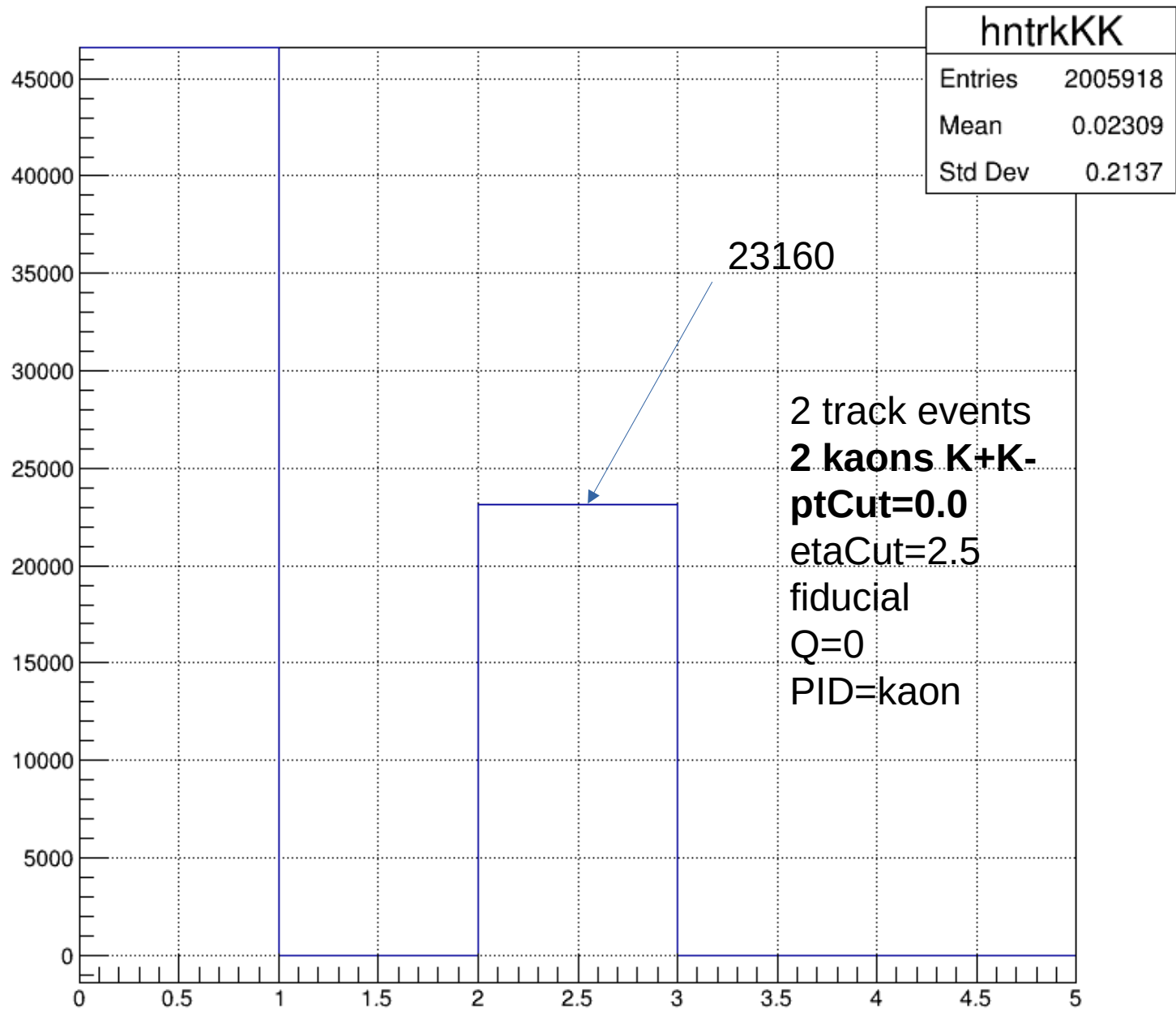
I am using these cuts in order to compare the outputs with Robert's results.

$M_{\pi\pi}$ OS

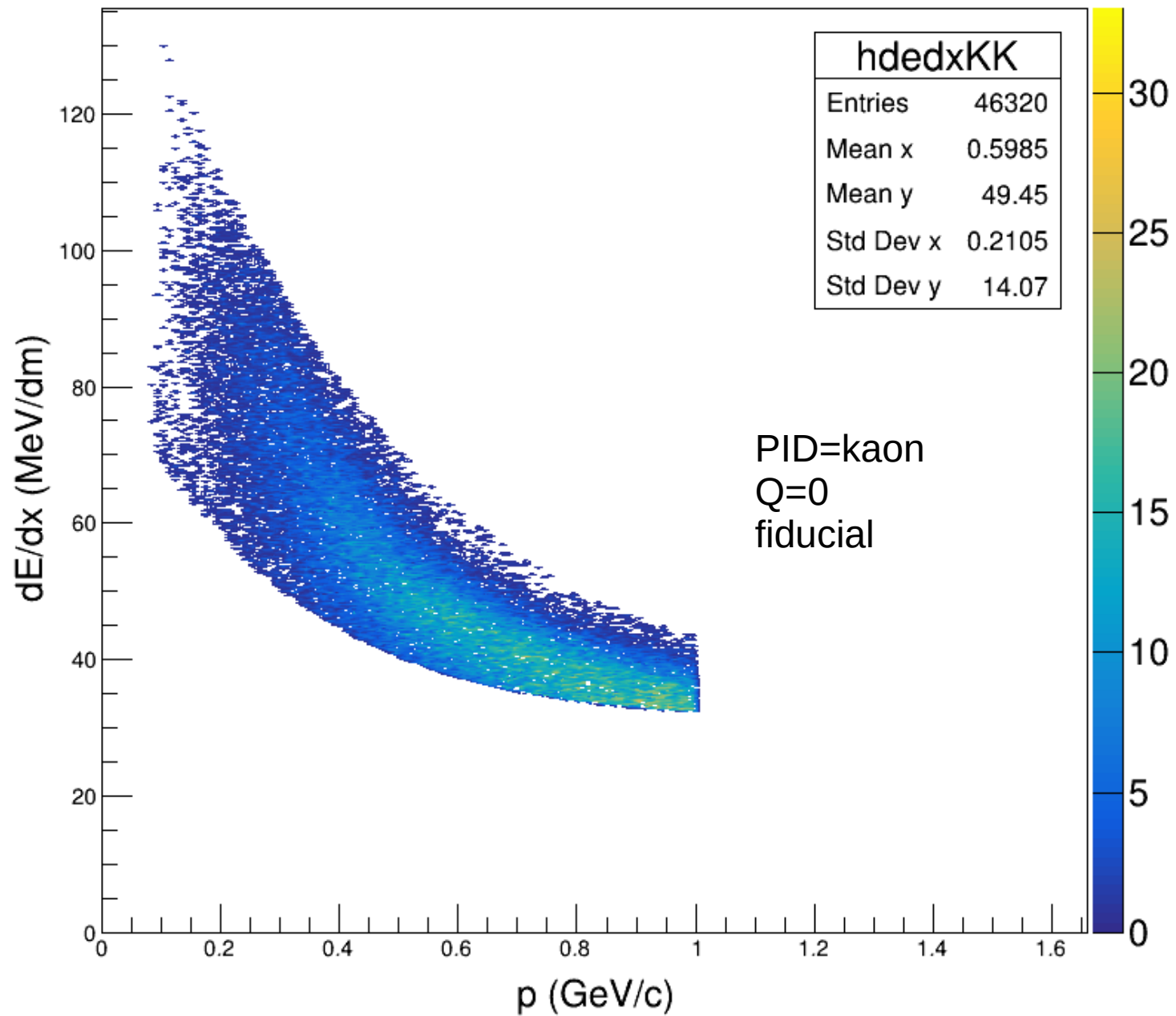


M_{KK} 

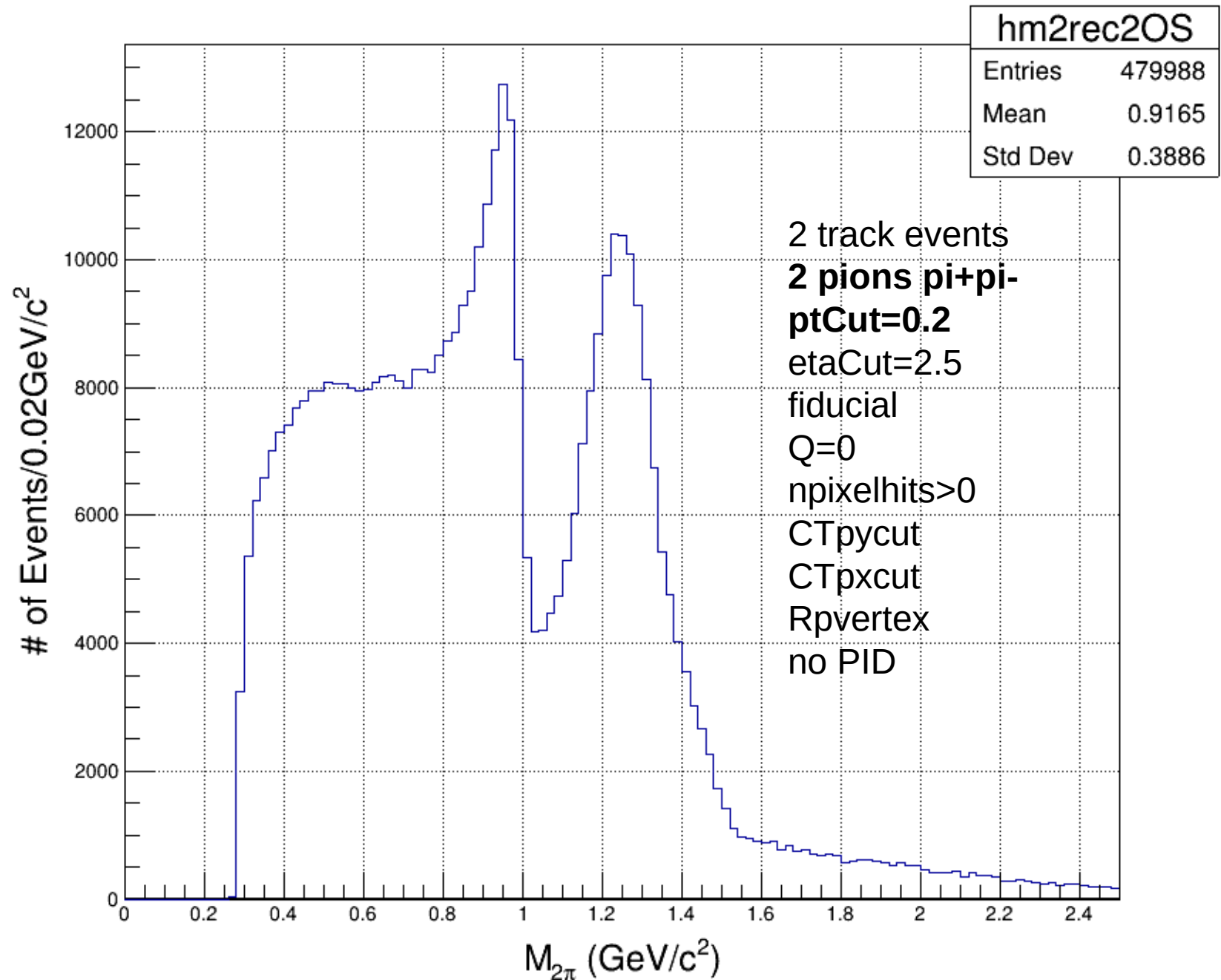
of K⁺K⁻

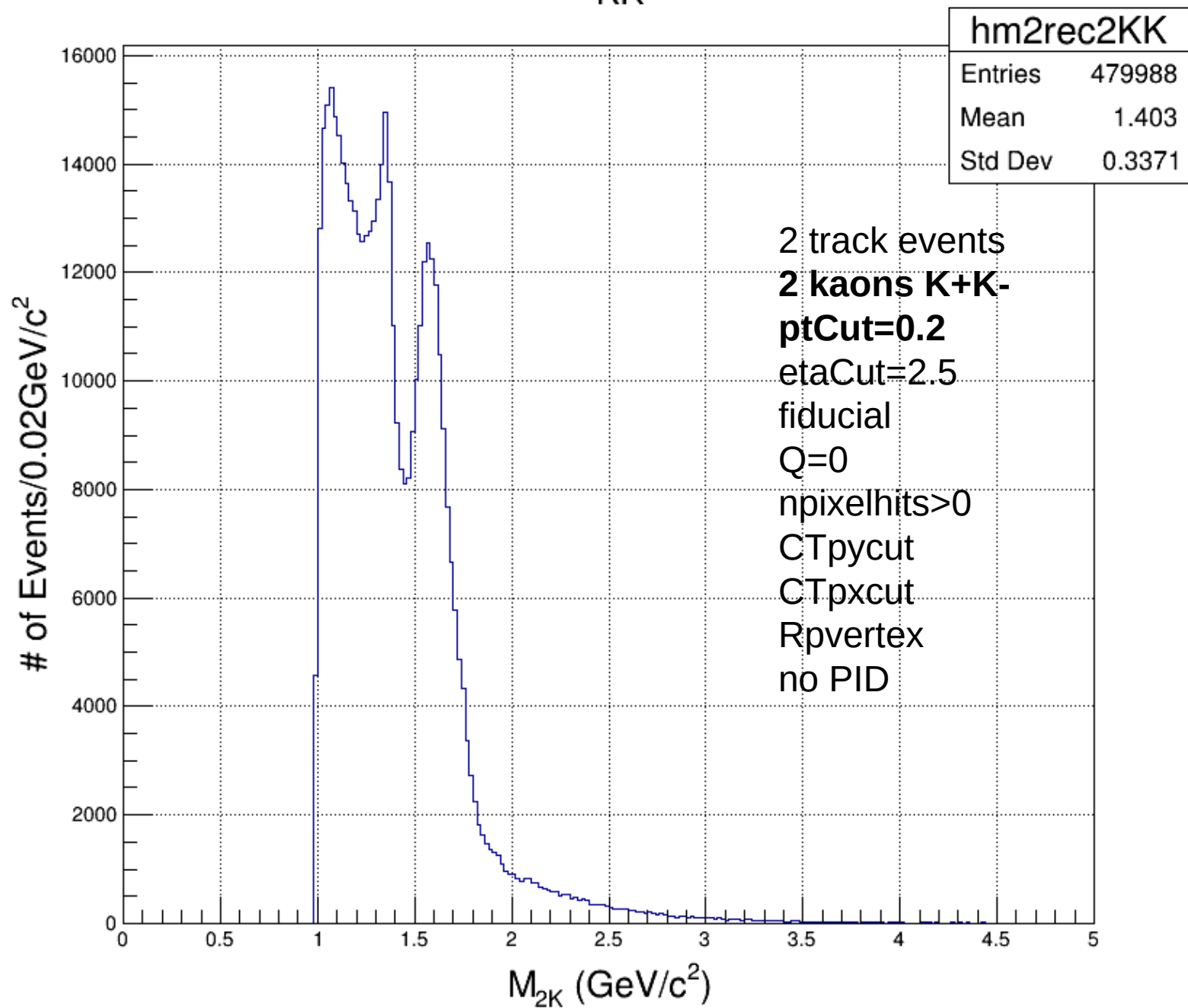


dE/dx vs p only K+K-

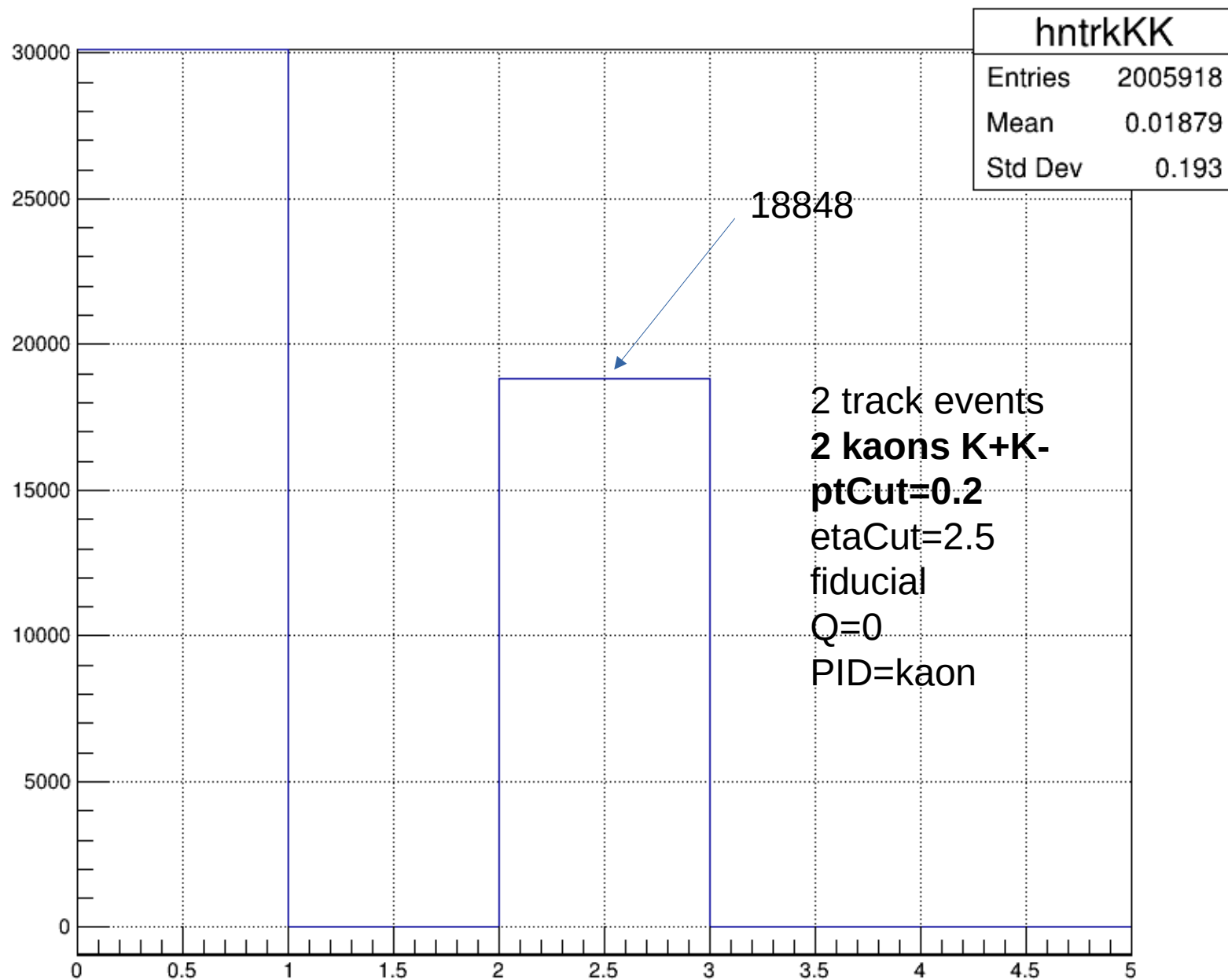


$M_{\pi\pi}$ OS

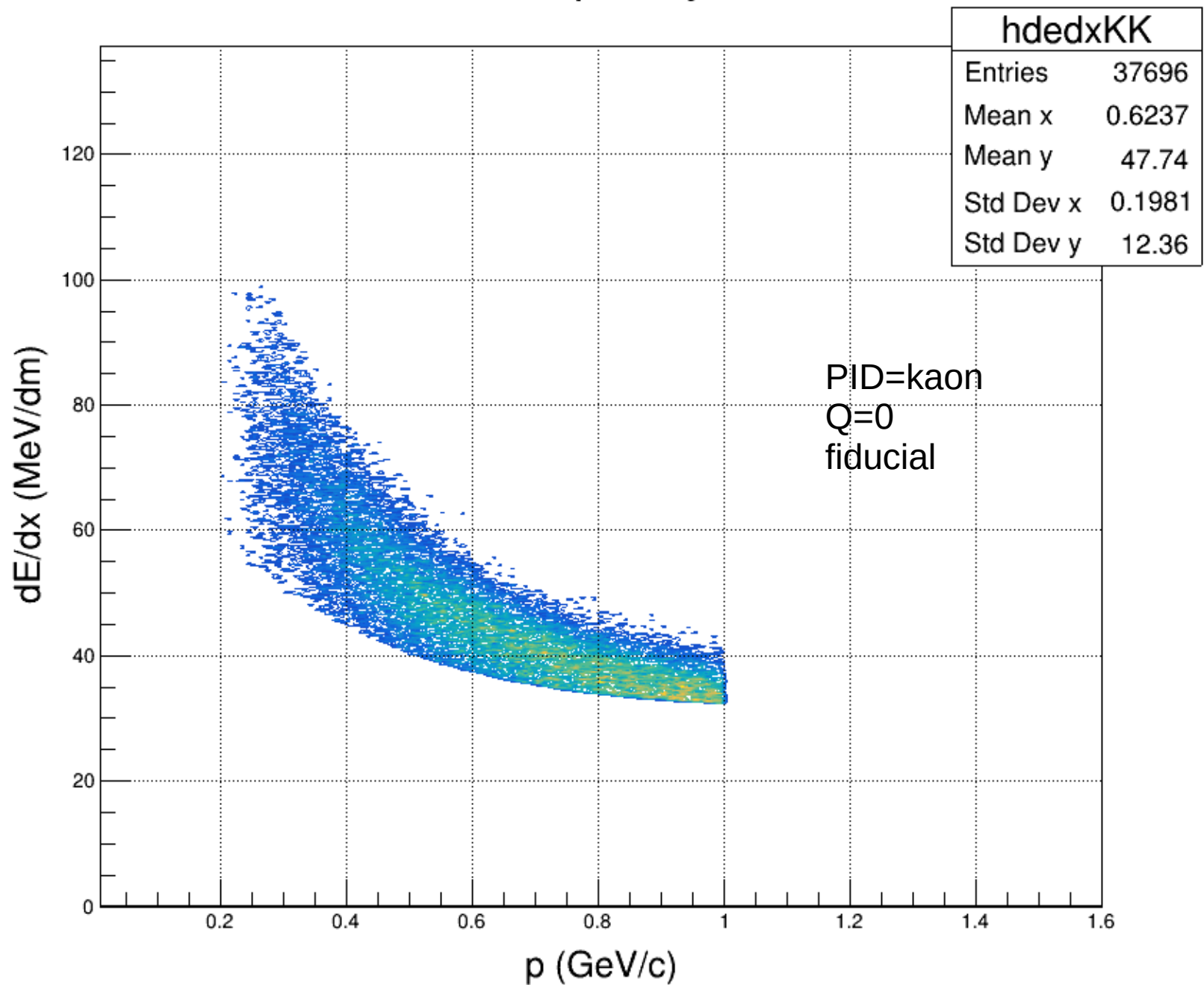


M_{KK} 

of K⁺K⁻

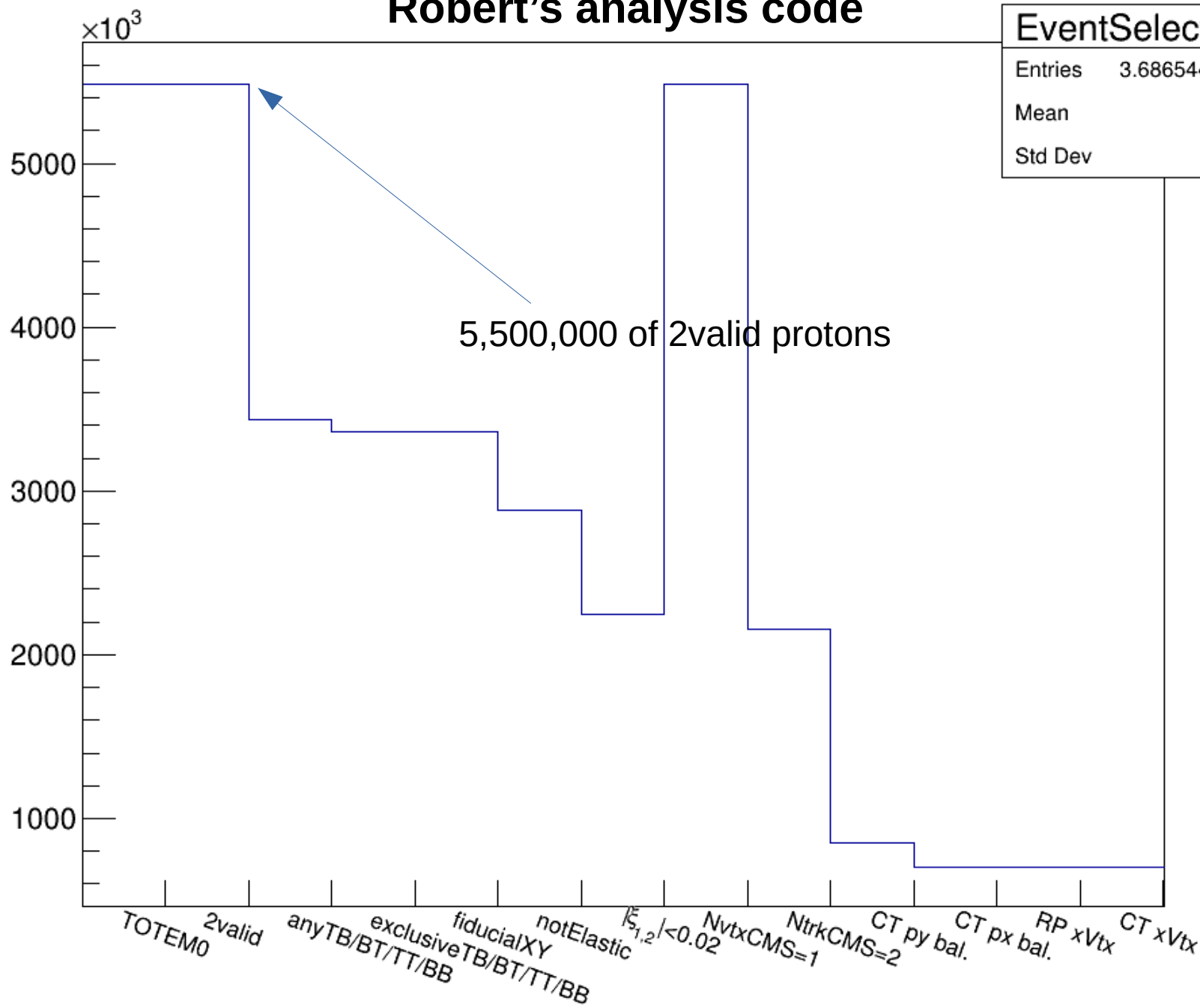


dE/dx vs p only K^+K^-



Robert's analysis code

EventSelection	
Entries	3.686544e+07
Mean	0
Std Dev	0



anaRP original code

