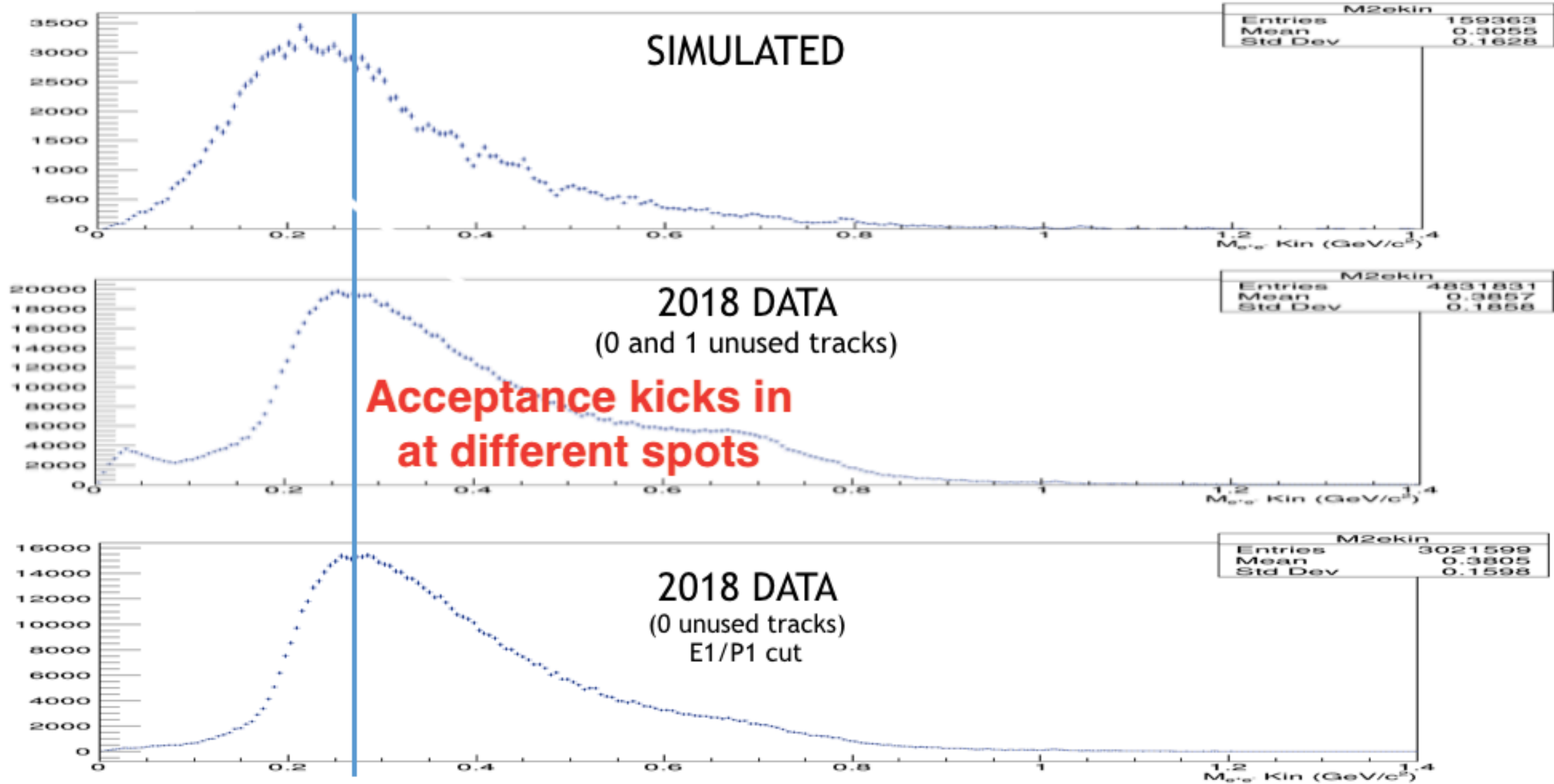
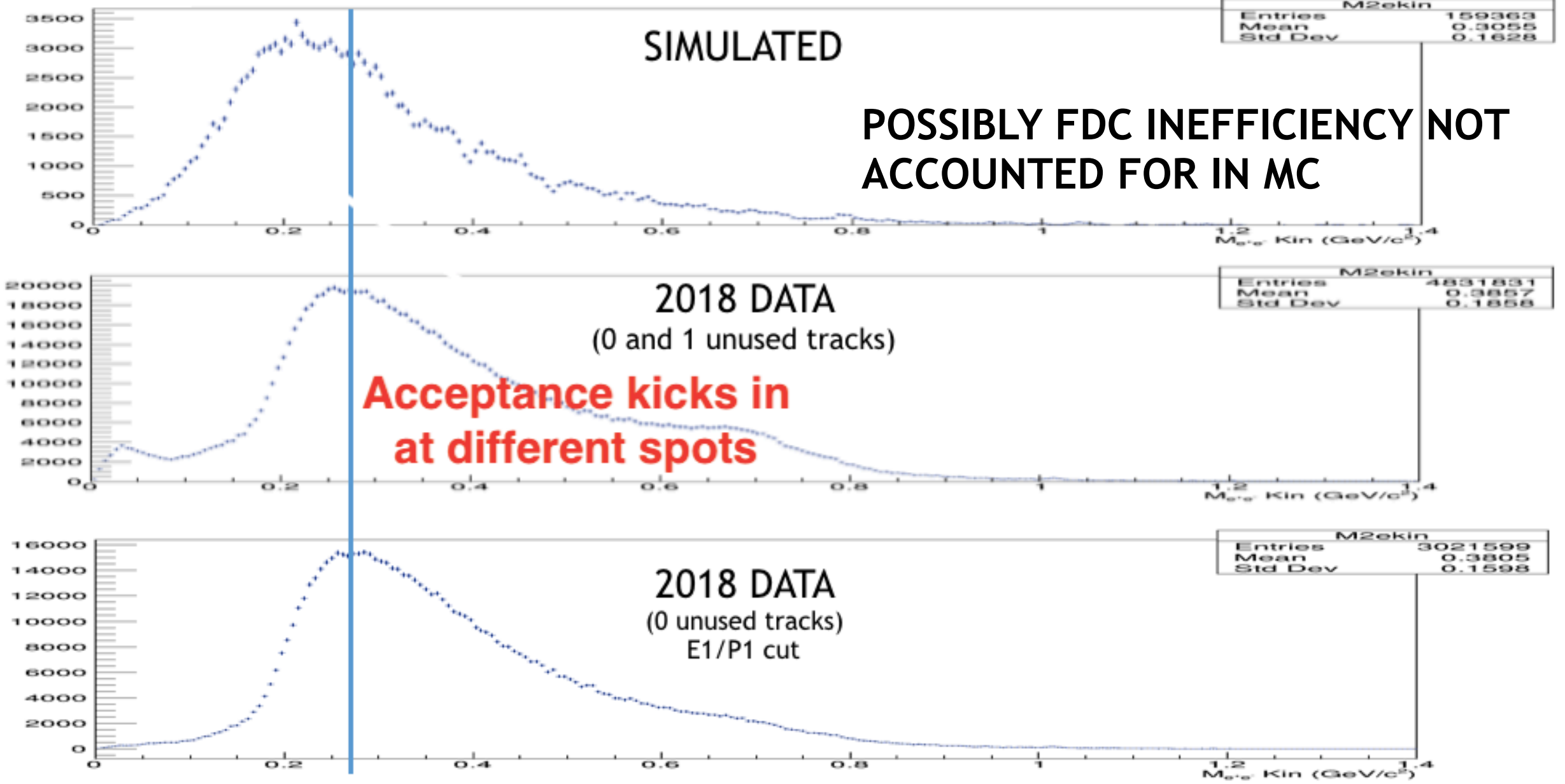


Questions

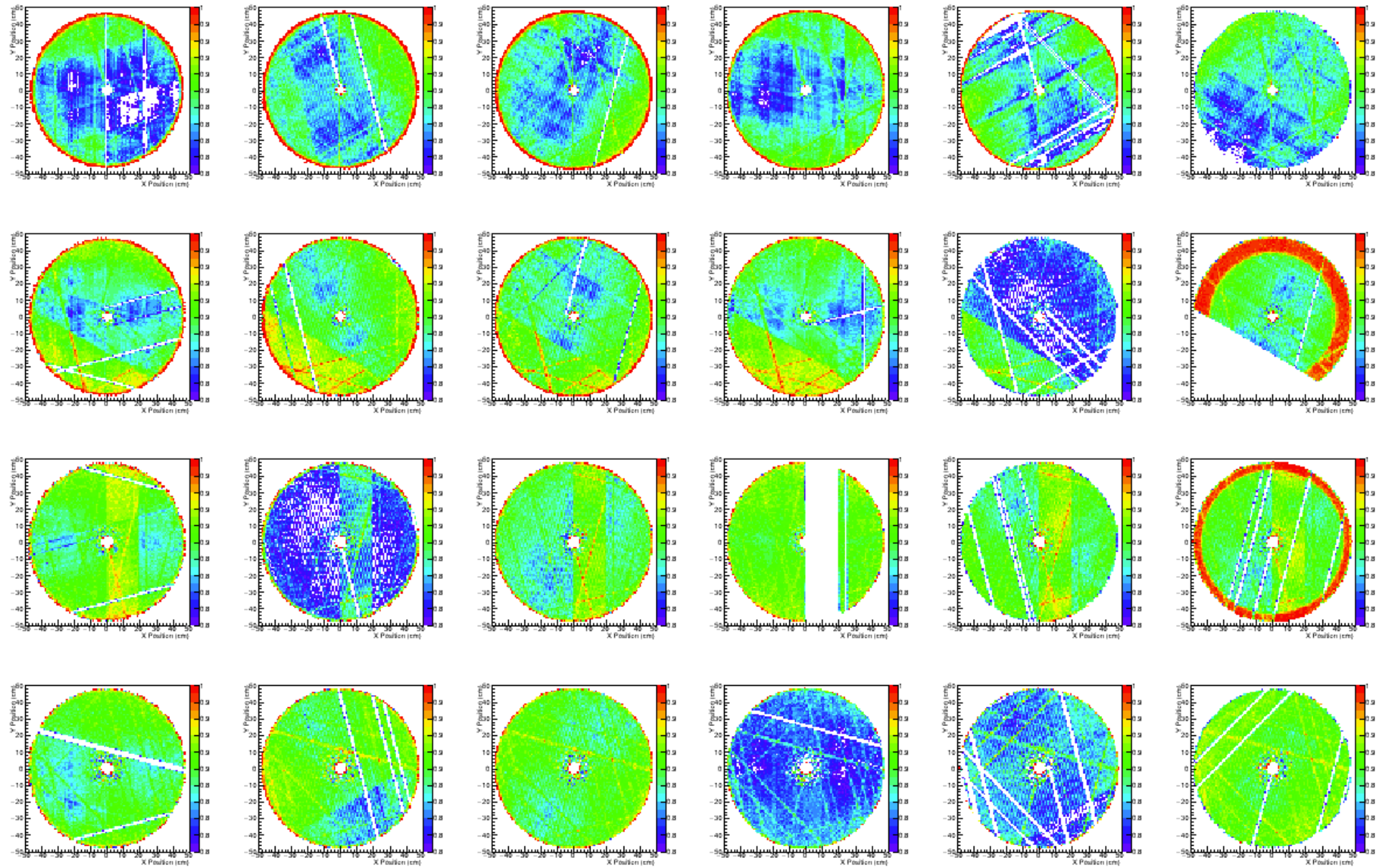
- Invariant mass acceptance cutoff kicks in in different spots between MC and data
- Kinematic fit t only goes down to $\sim 10^{-3}$, whereas measured goes down to $\sim 10^{-5}$. Is this something we can control?
- Meaning of the various FDC efficiency plots

1. Invariant Mass Acceptance Cut-off

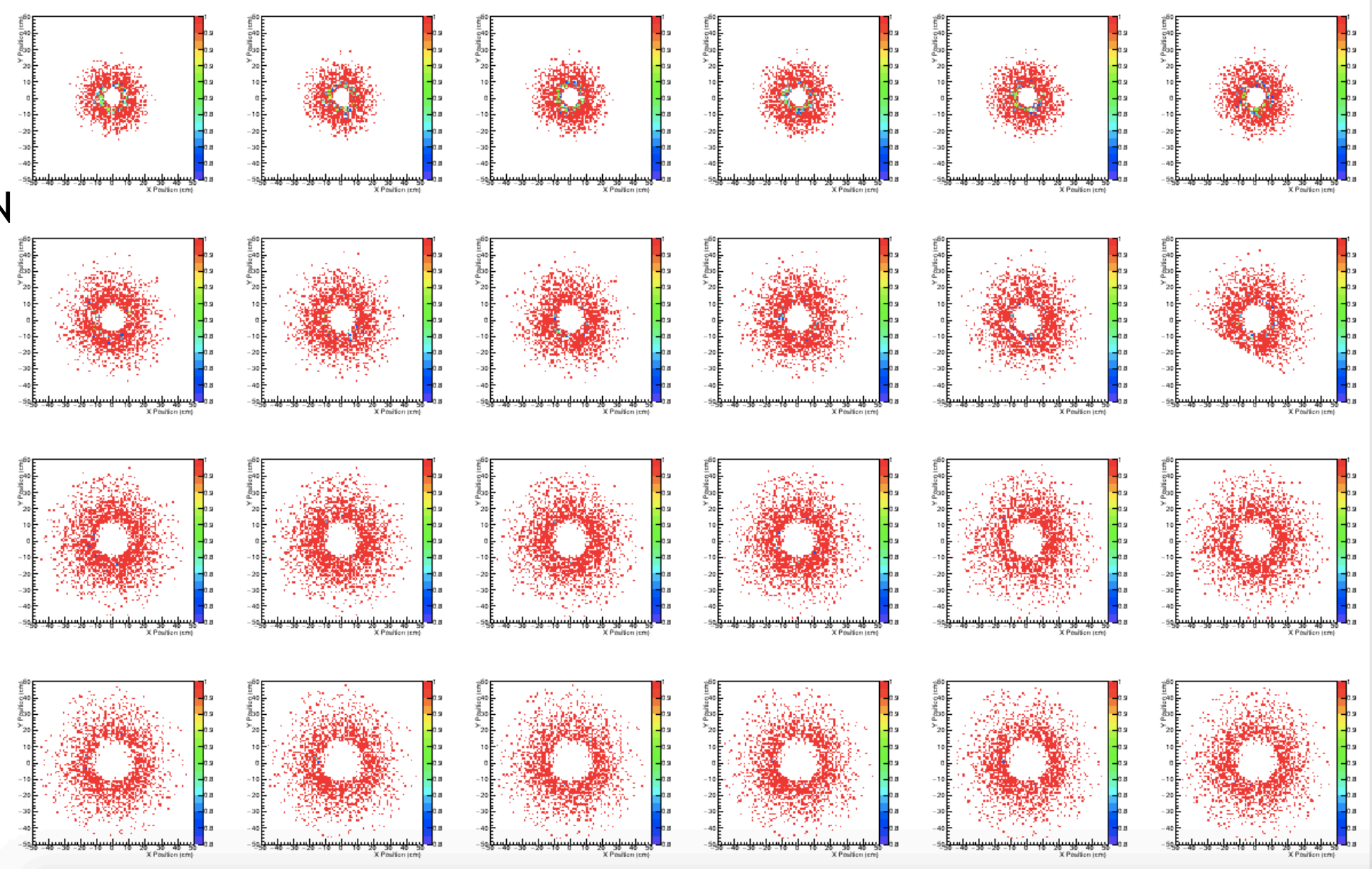




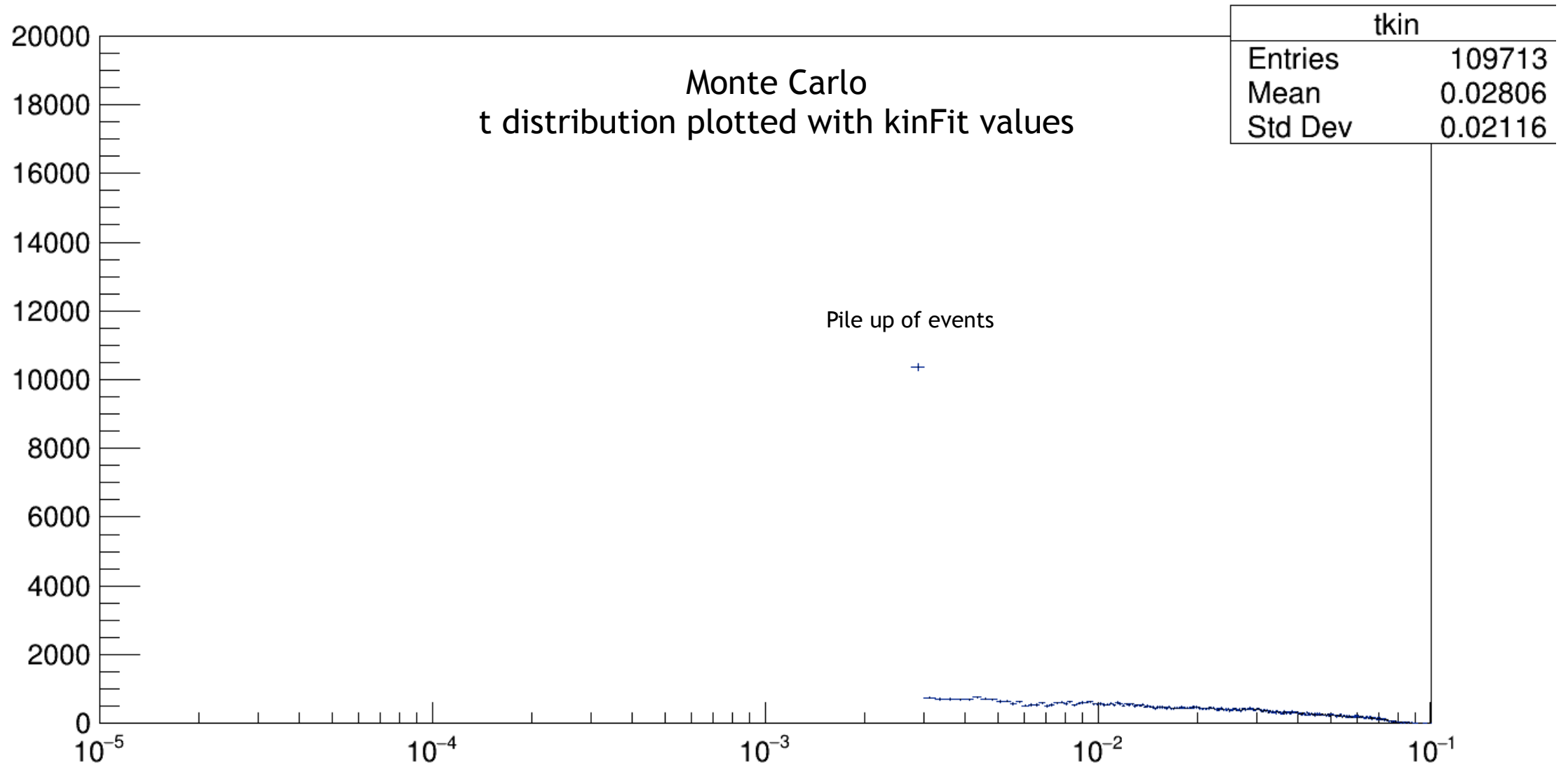
Pseudo Hit Efficiency For DATA

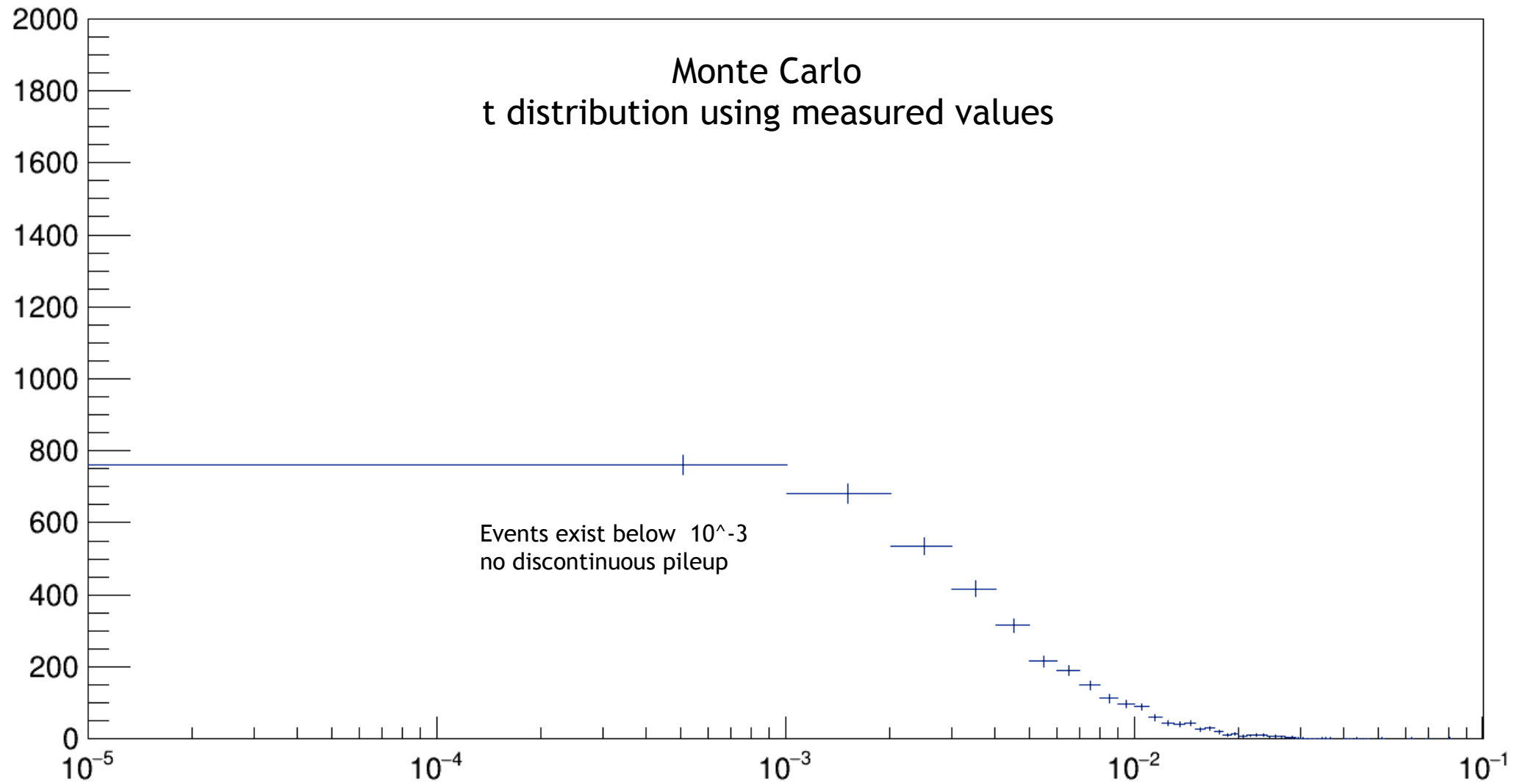


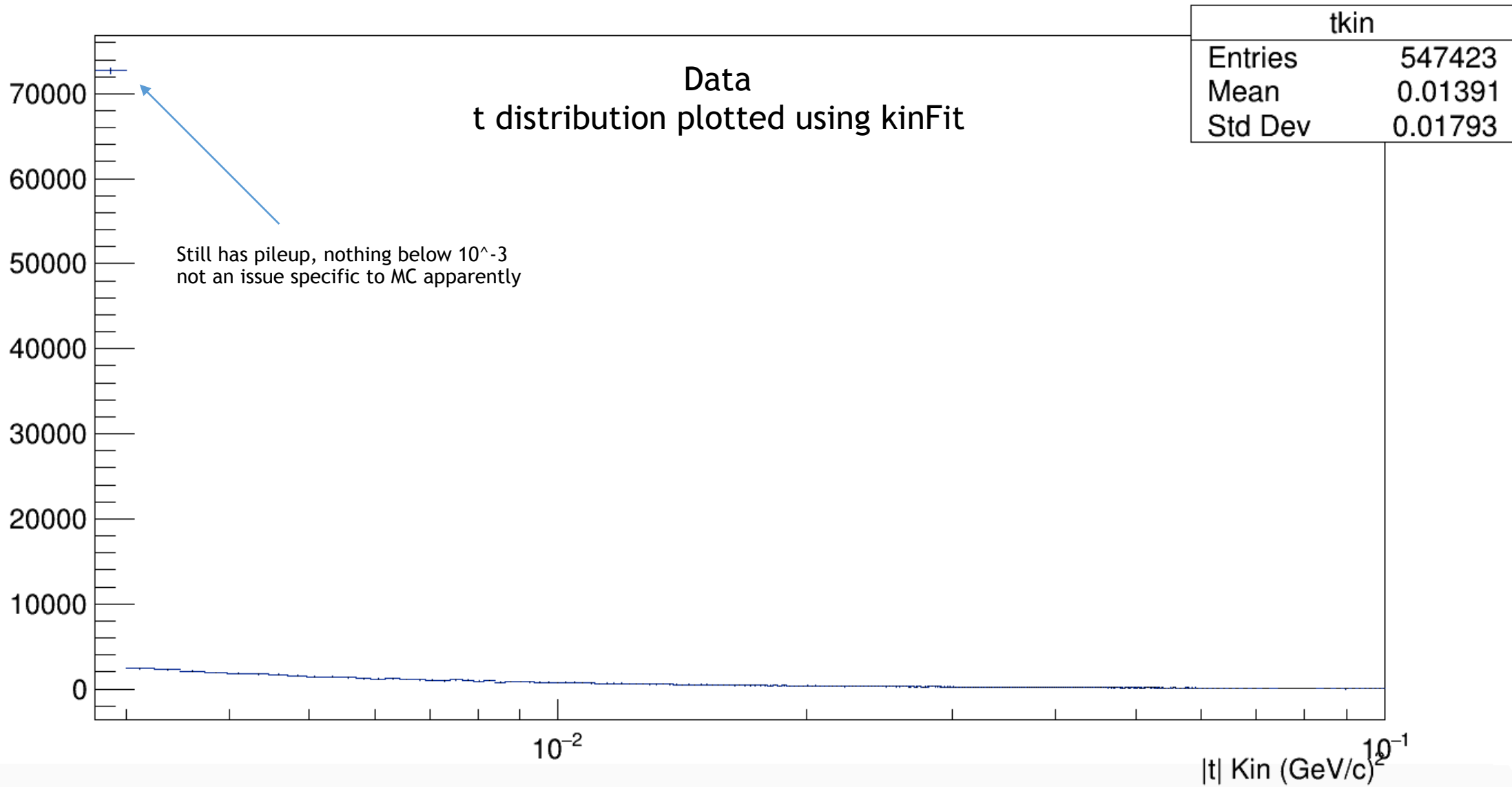
Pseudo Hit Efficiency For SIMULATION



2. KinFit t stops at 10^{-3}
whereas measured goes
lower







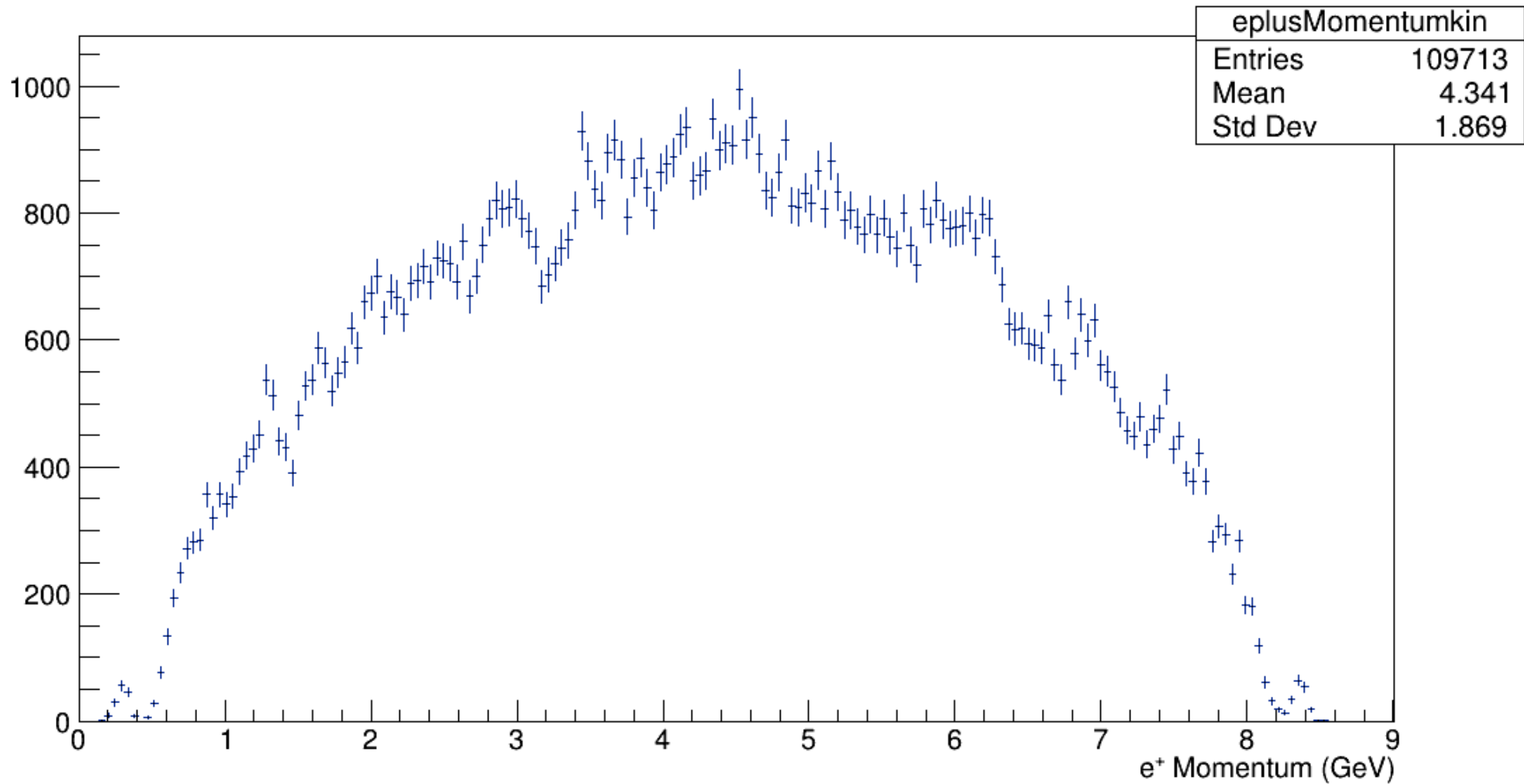
Cuts for $\gamma p \rightarrow e^+ e^- (p)$

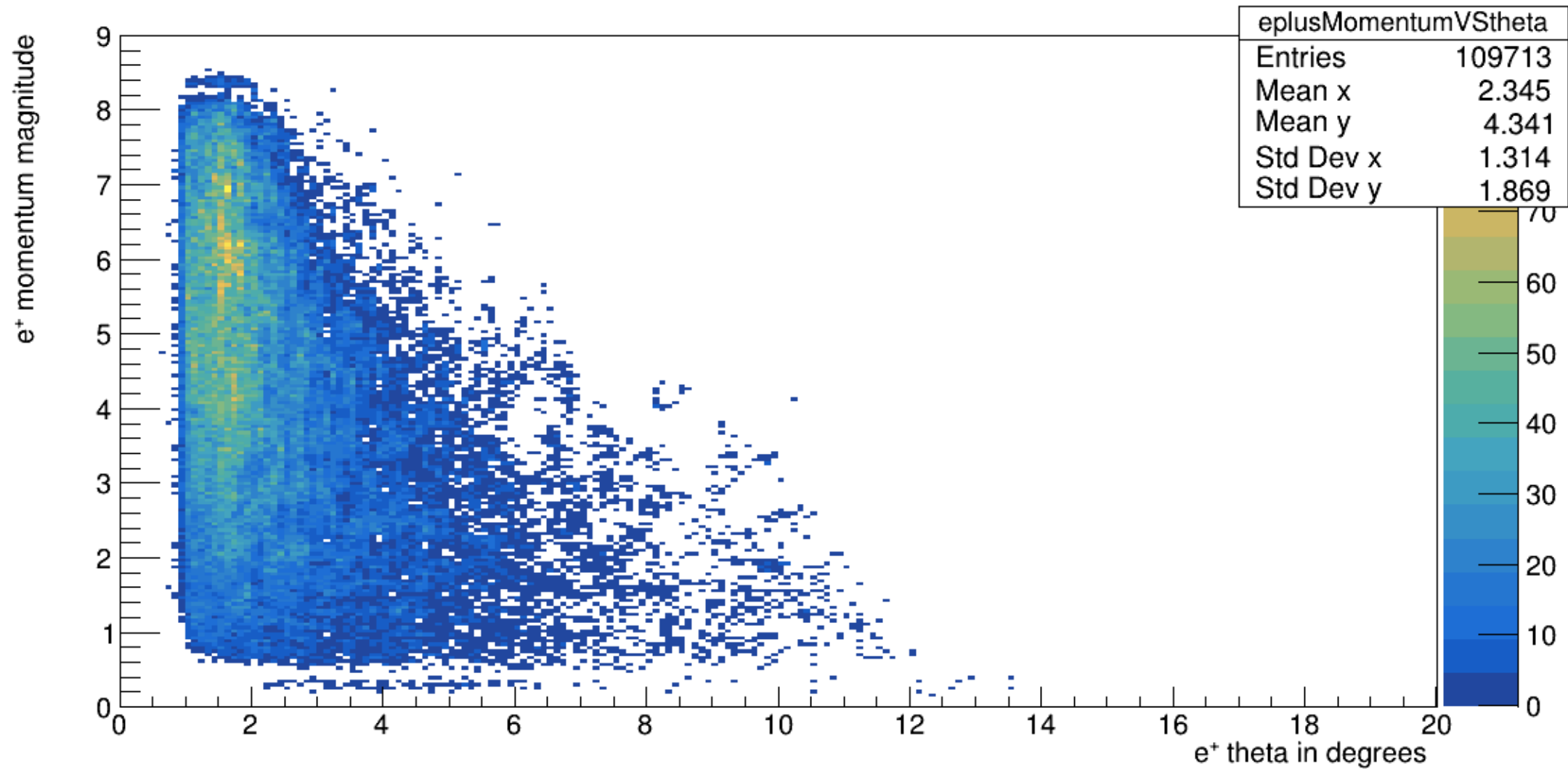
Preselection Cuts

1. Default GlueX cuts: https://halldweb.jlab.org/wiki/index.php/Spring_2017_Analysis_Launch_Cuts
2. Require $E/p > 0.5$ for electron and positron tracks in FCAL. Reject BCAL events.

DSelector Cuts

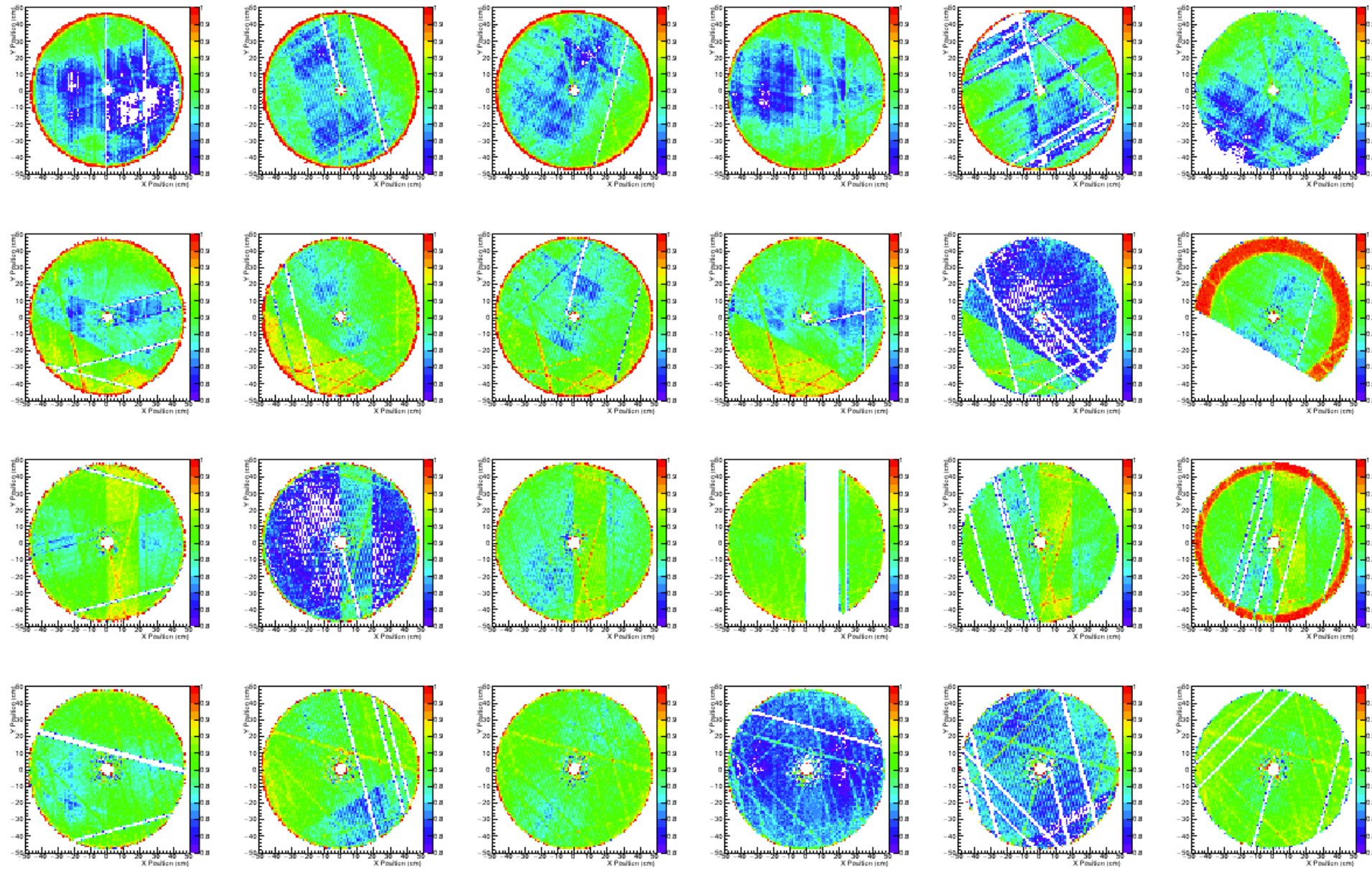
1. Cut on coherent peak: $8.12 < E_\gamma < 8.88$
2. Require both electron and positron tracks have hit in FCAL
3. Require both electron and positron tracks have hit in TOF
4. Require $d\text{MinKinFitCL} > 10\text{E-}6$
5. Eliminate events with any unused tracks
6. Eliminate events with $\text{Energy_UnusedShowers} > 0$
7. TOF dE/dx cut for electron and positron tracks $> 3\sigma$
8. FCAL DOCA cut for e^+ and e^- tracks $> 3\sigma$
9. FCAL Elasticity $\pm 3\sigma$ cut
10. Cut events with $\frac{E_1}{p_1} < 0.85$. Plot $\frac{E_2}{p_2}$ in bins of invariant mass.



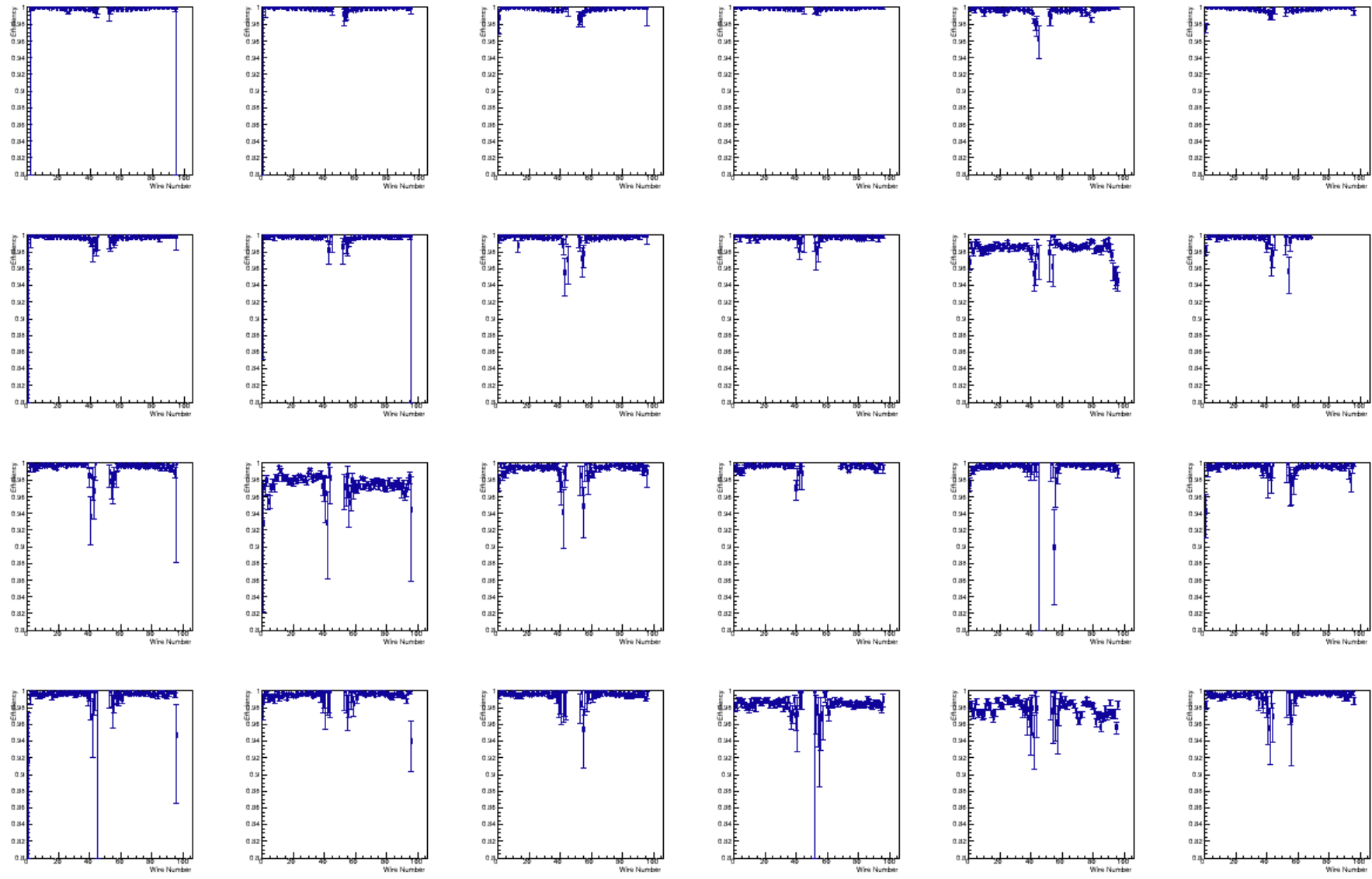


3. All of the various FDC efficiency plots

Pseudo Hit Efficiency

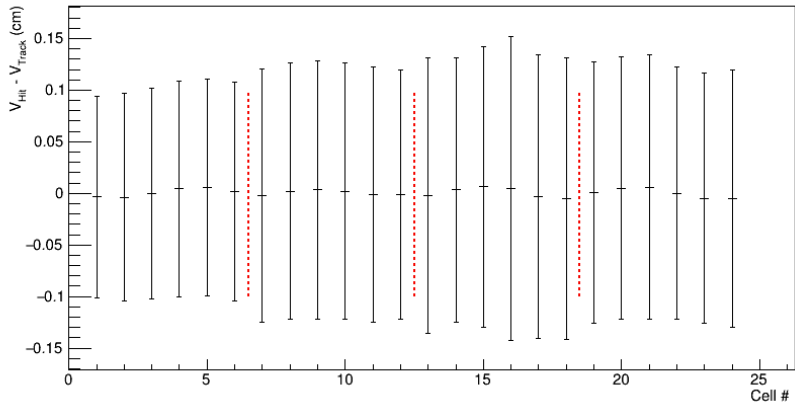


Wire Efficiency

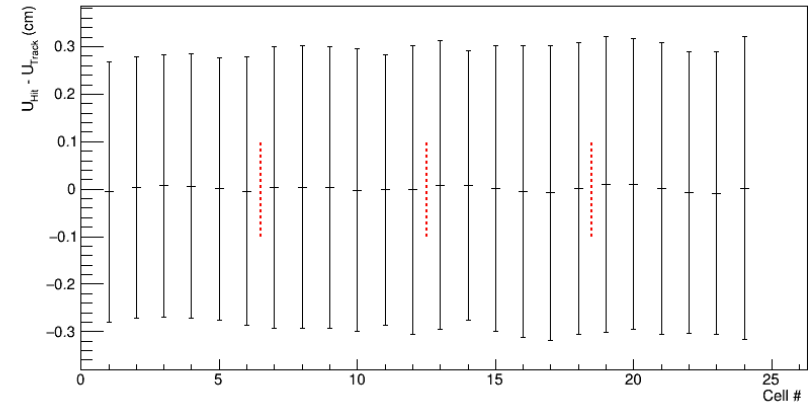


Alignment

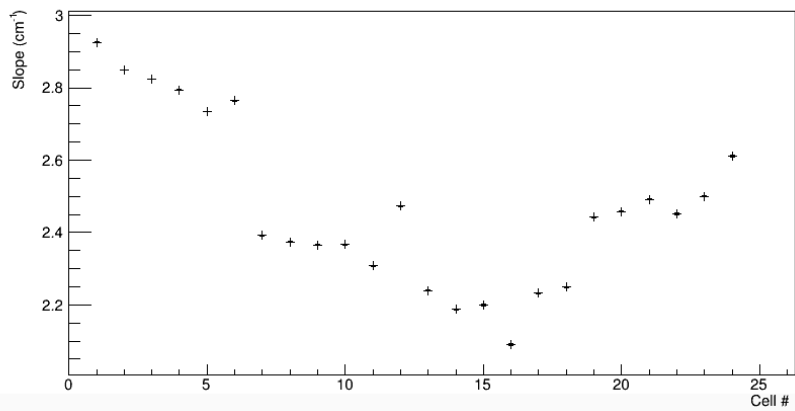
Alignment along Wire (Error Bars: Sigma)



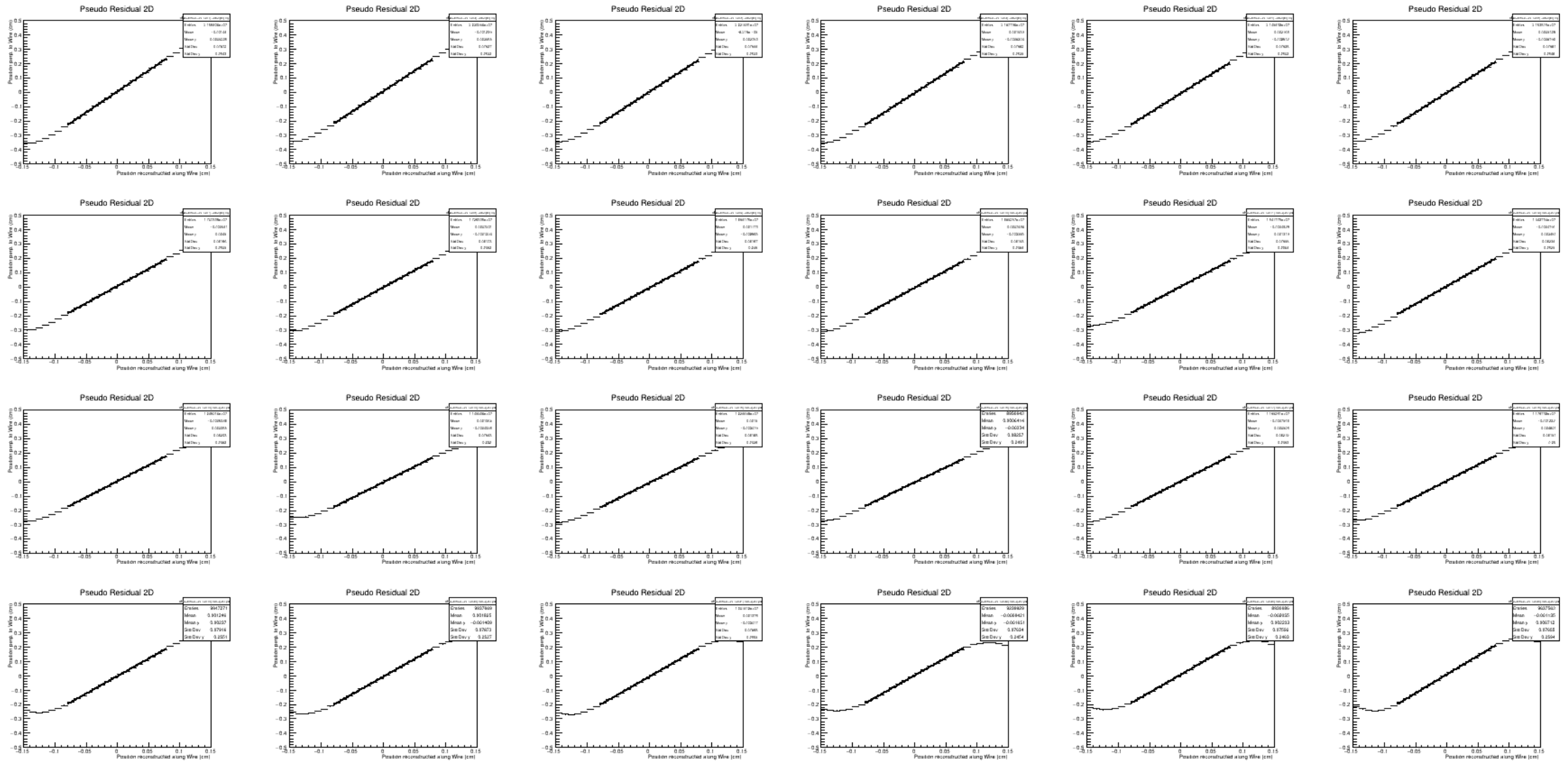
Alignment perp. to Wire (Error Bars: Sigma)



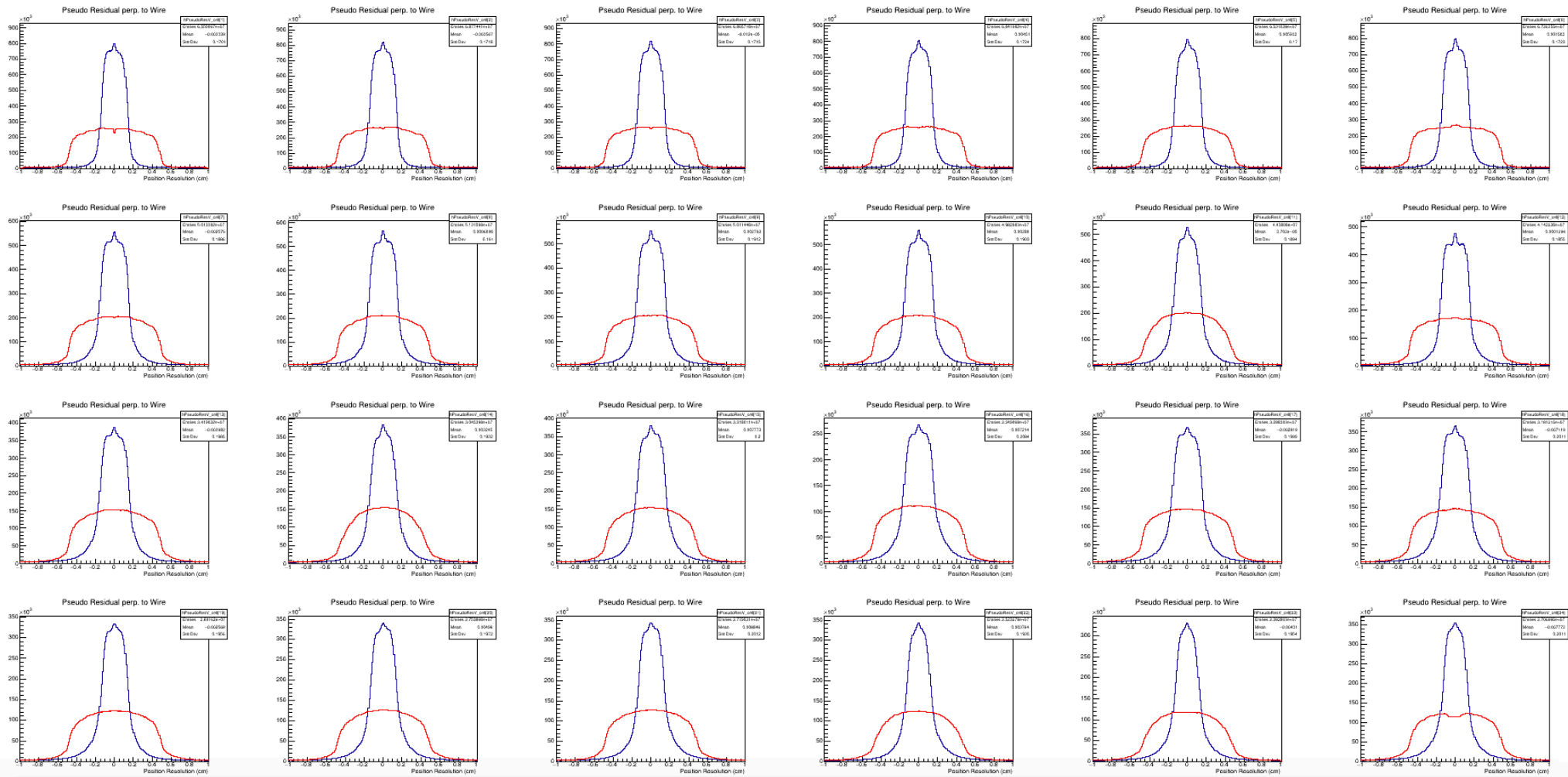
Value for slope of magnetic deflection



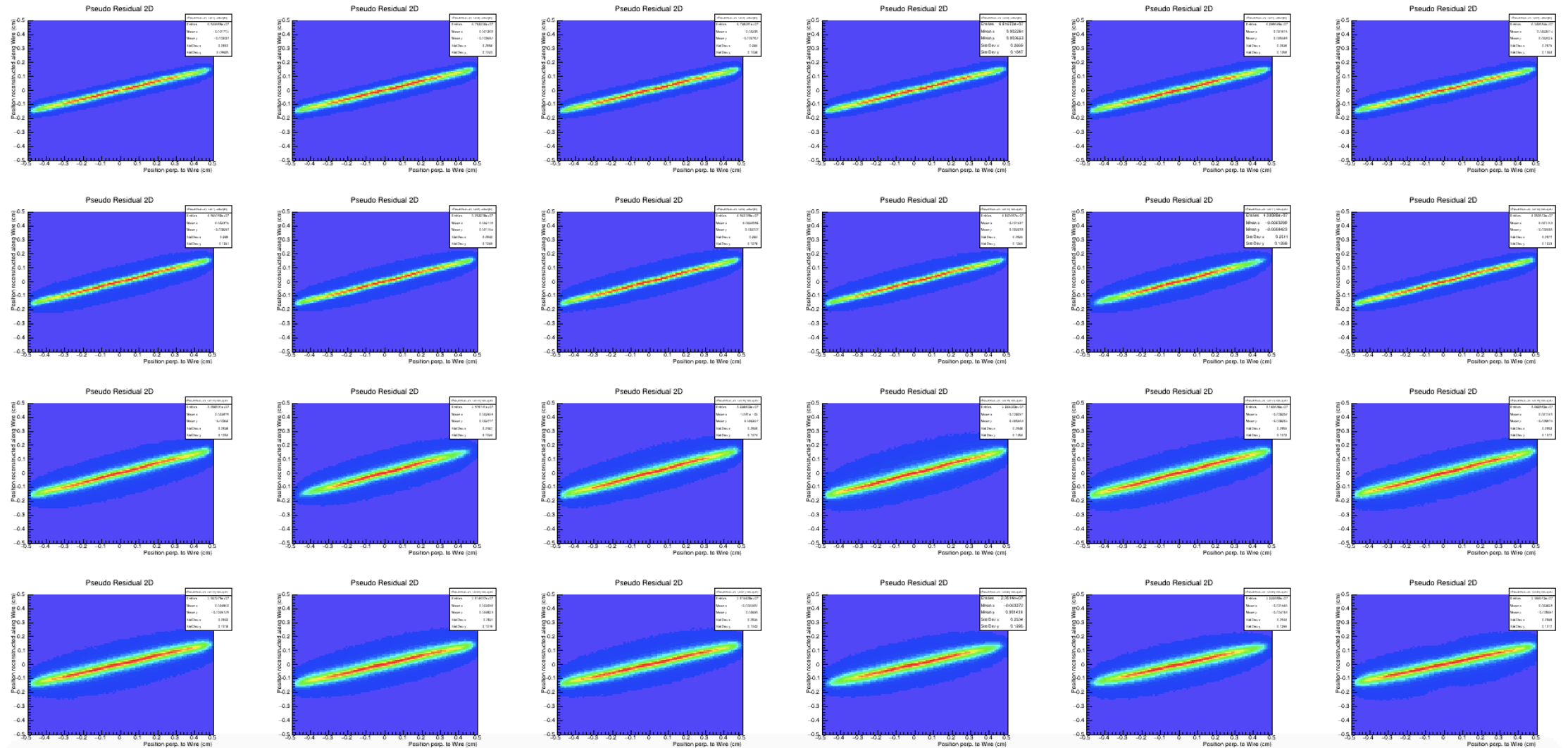
Pseudo Resolution Profile



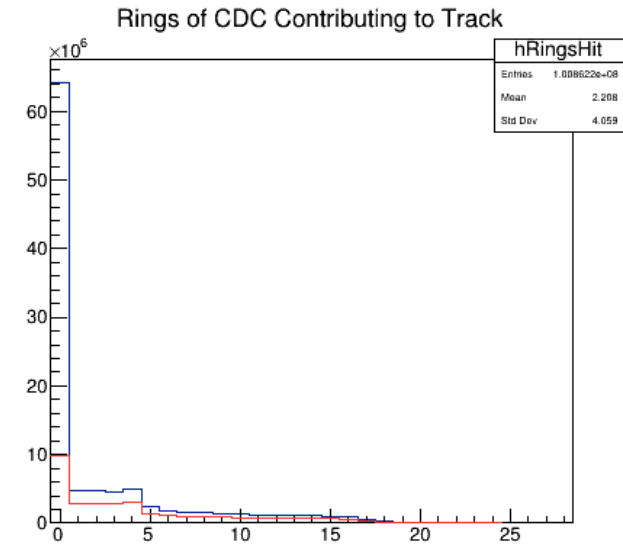
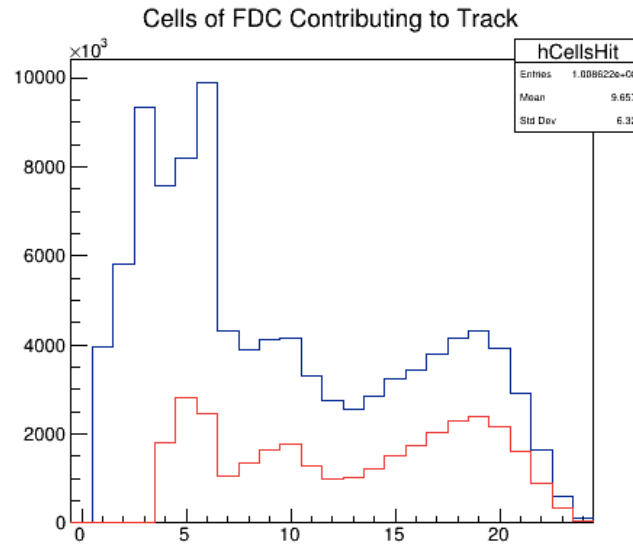
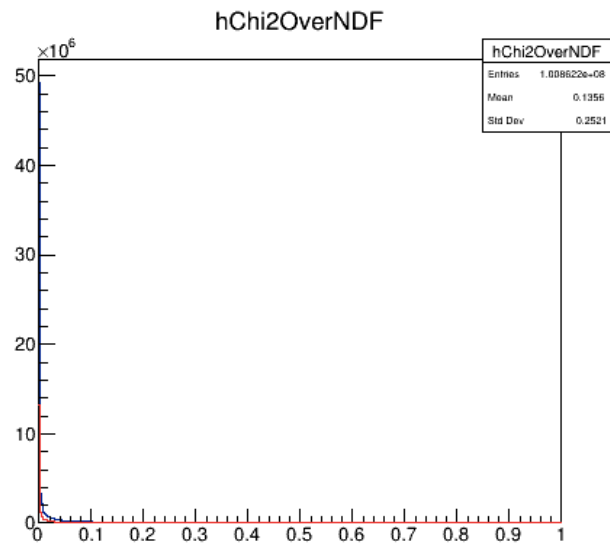
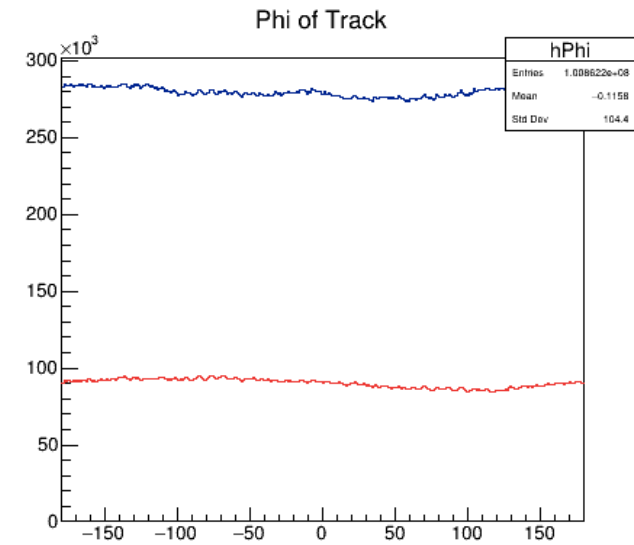
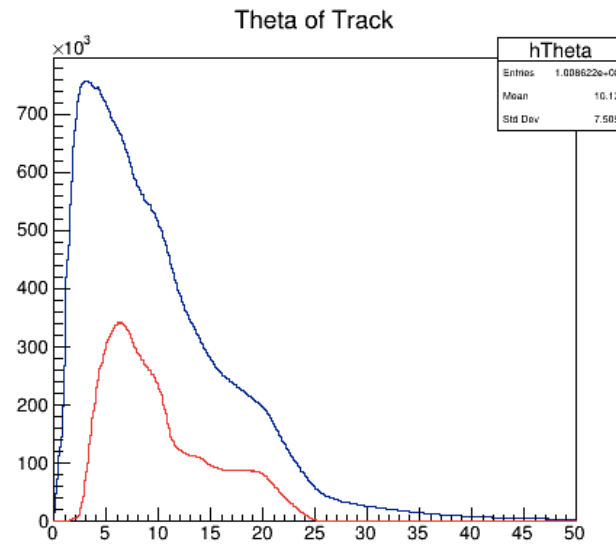
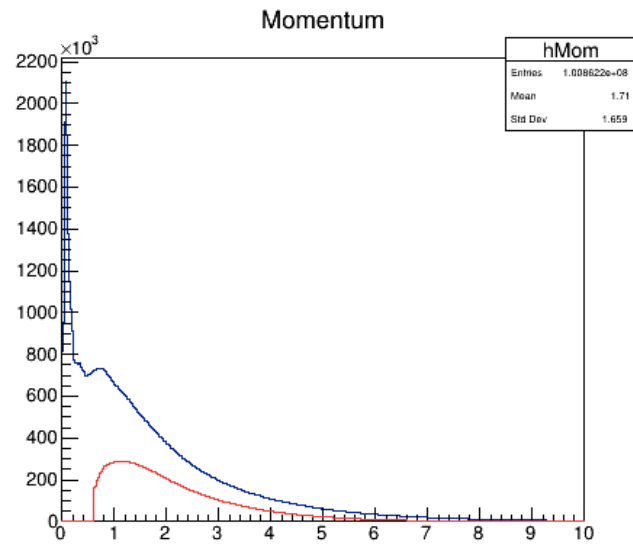
Pseudo Hit Resolution



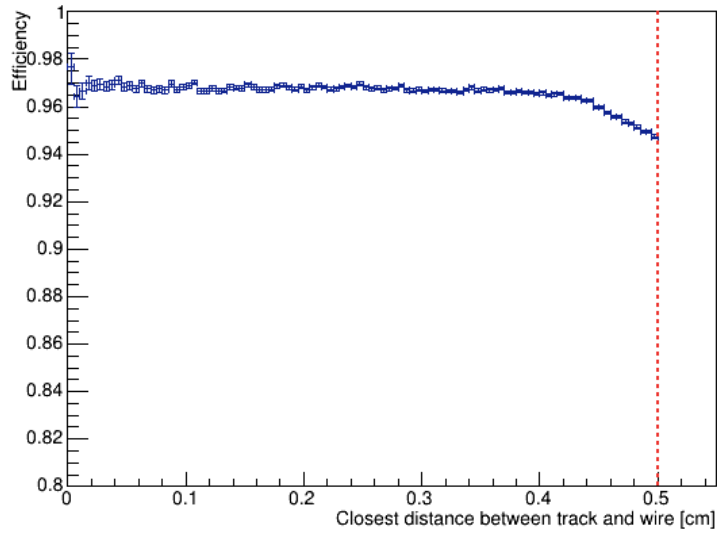
Pseudo Hit Resolution



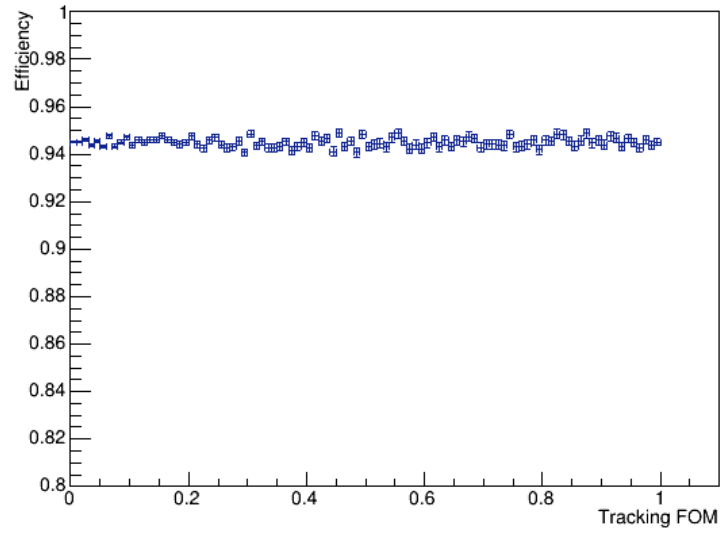
Track Quality Histograms



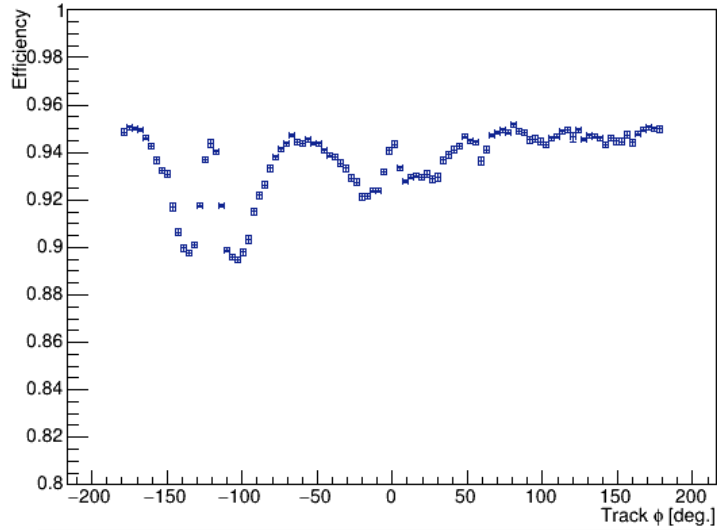
FDC Per Wire Efficiency Vs. DOCA



FDC Per Wire Efficiency Vs. Tracking FOM



FDC Per Wire Efficiency Vs. ϕ



FDC Per Wire Efficiency Vs. Contributing Cells

