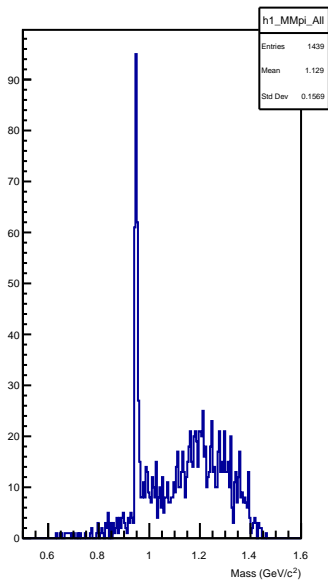
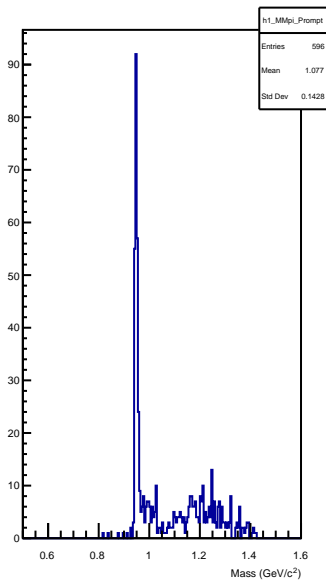
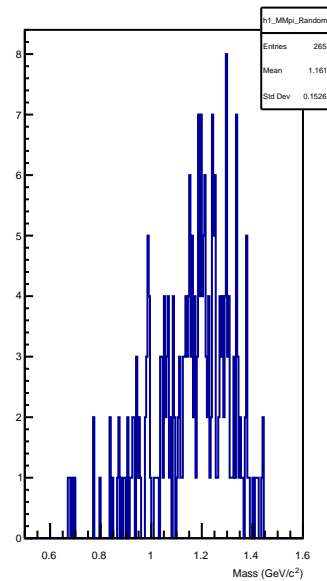
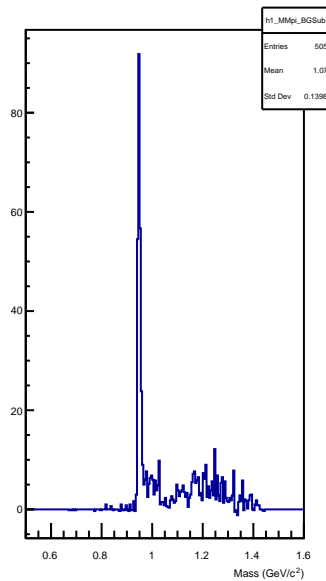
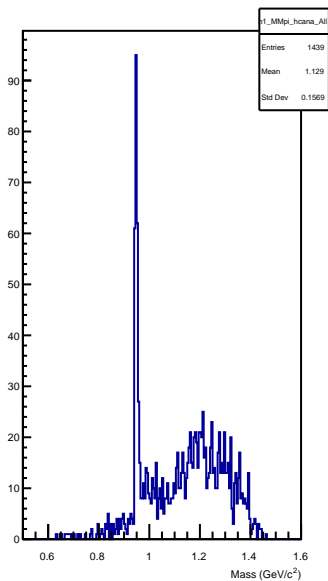
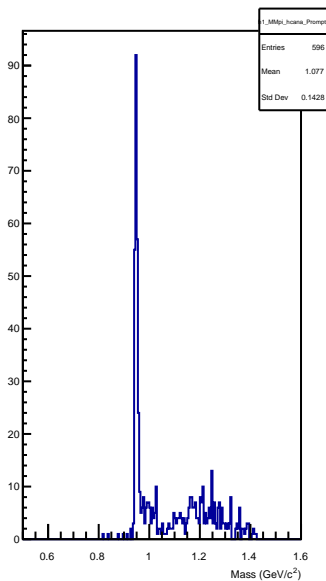
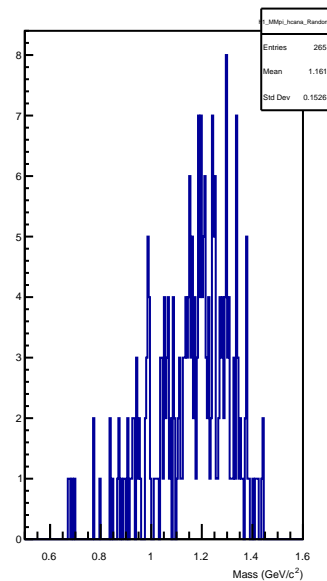
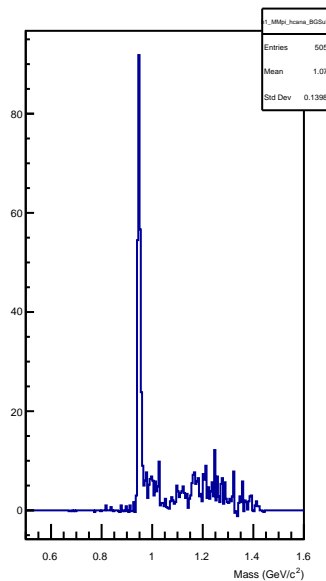
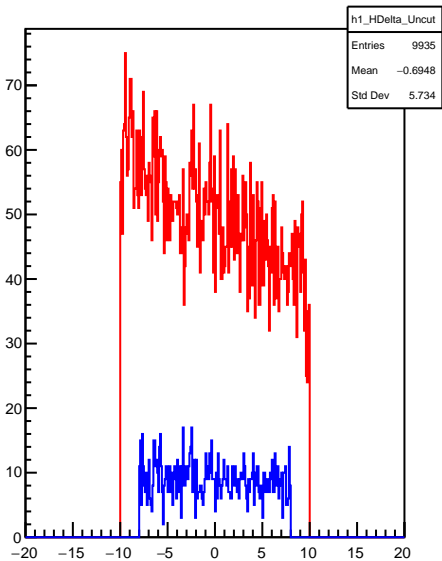
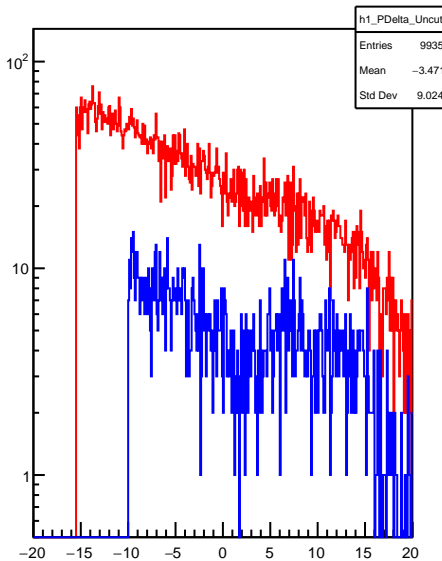
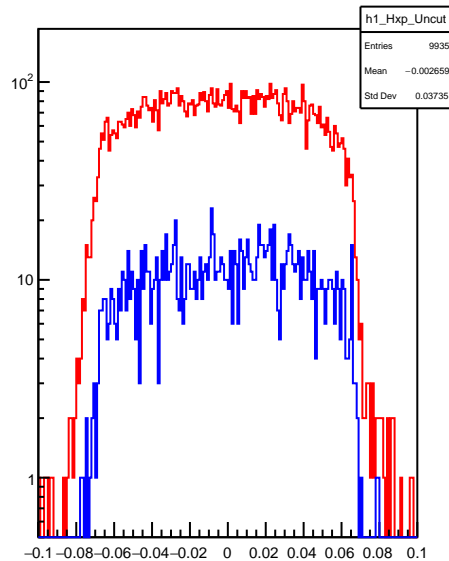
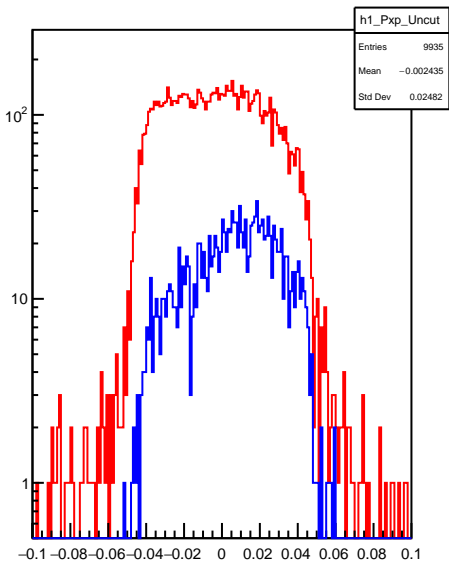
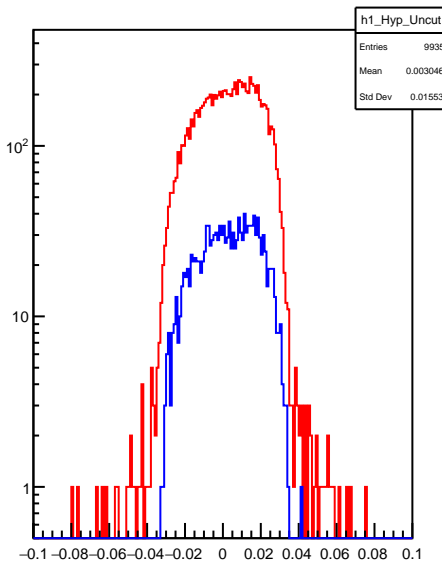
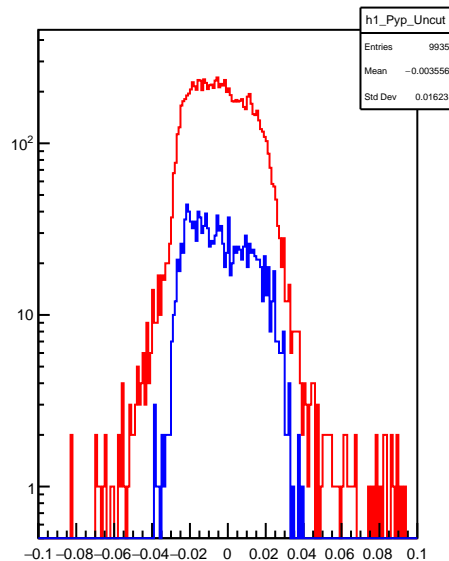
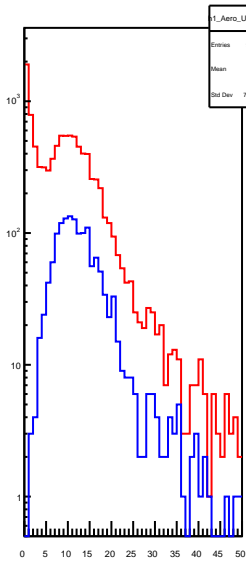


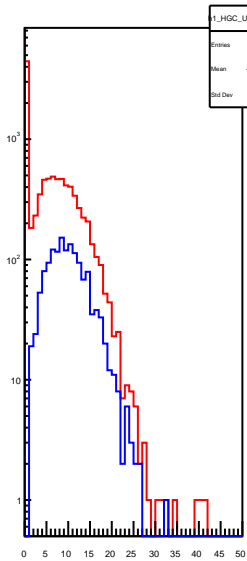
MM<sub>π</sub> - All events after cutsMM<sub>π</sub> - Prompt events after cutsMM<sub>π</sub> - Random events after cutsMM<sub>π</sub> - BGSUB events after cutsMM<sub>π</sub> - All events after cutsMM<sub>π</sub> - Prompt events after cutsMM<sub>π</sub> - Random events after cutsMM<sub>π</sub> - BGSUB events after cuts

HMS  $\delta$  - all events before cutsSHMS  $\delta$  - all events before cutsHMS  $x'$  - all events before cutsSHMS  $x'$  - all events before cutsHMS  $y'$  - all events before cutsSHMS  $y'$  - all events before cuts

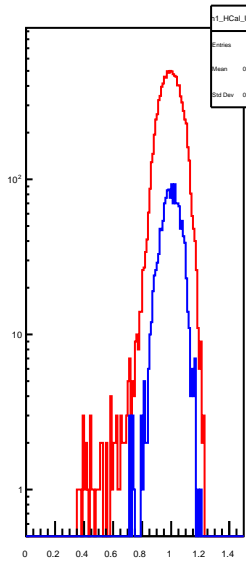
Aerogel NPESum - all events before cuts



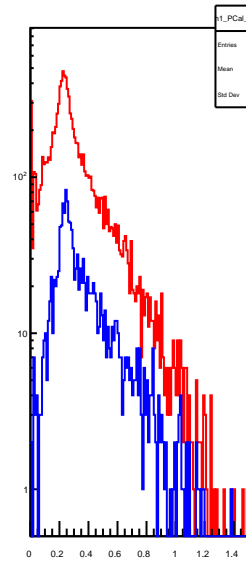
HGC NPESum - all events before cuts



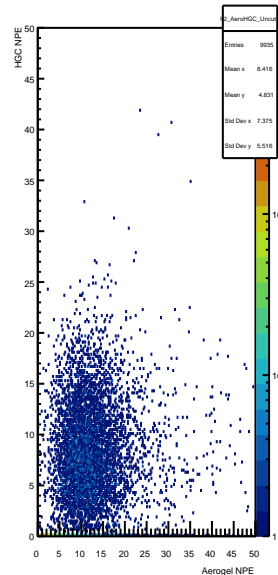
HMS Normalized Calorimeter Energy - all events before cuts



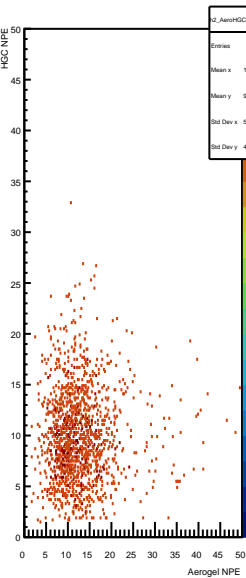
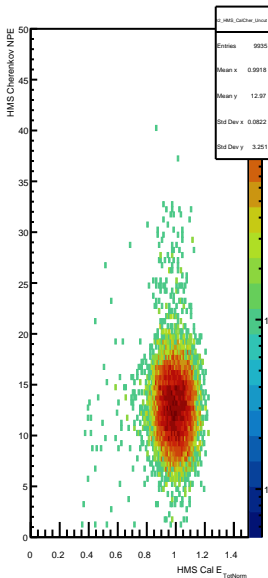
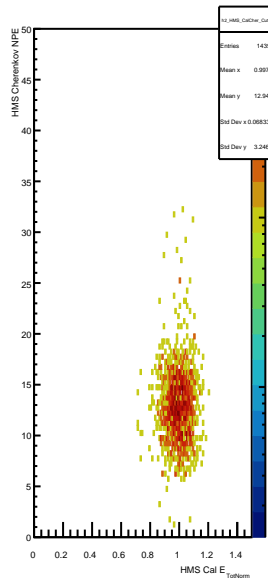
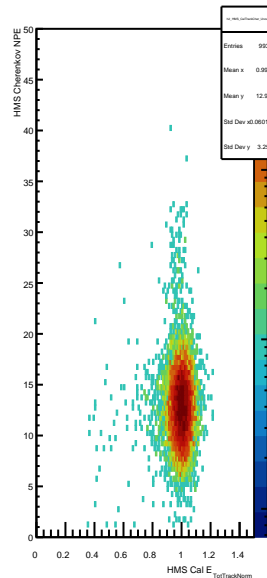
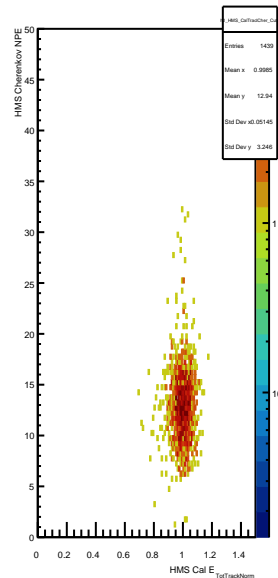
HMS Normalized Calorimeter Energy - all events before cuts



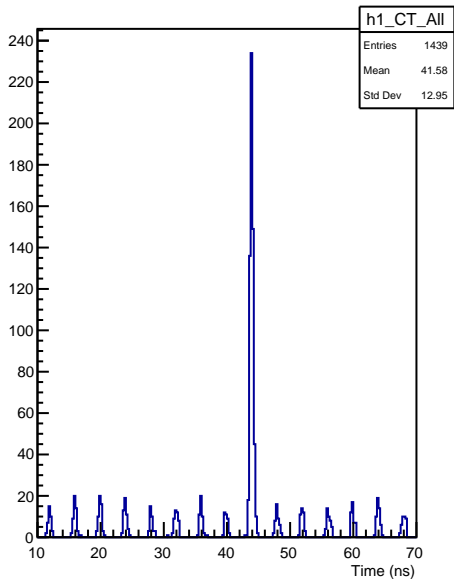
Aerogel vs HGC NPESum - all events before cuts



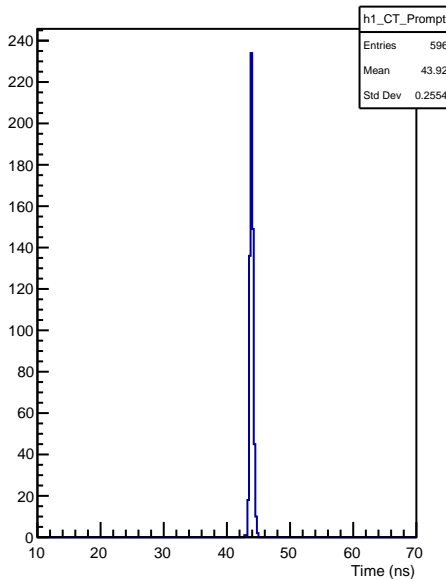
Aerogel vs HGC NPESum - all events after cuts

HMS Calorimeter E<sub>TopBeam</sub> vs HMS Cherenkov NPE - all events before cutsHMS Calorimeter E<sub>TopBeam</sub> vs HMS Cherenkov NPE - all events after cutsHMS Calorimeter E<sub>TopBeam</sub> vs HMS Cherenkov NPE - all events before cutsHMS Calorimeter E<sub>TopBeam</sub> vs HMS Cherenkov NPE - all events after cuts

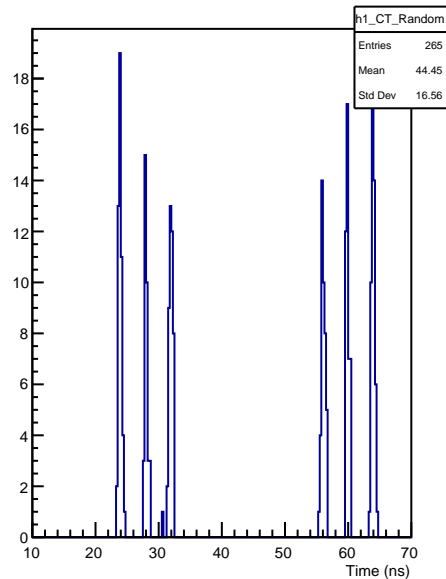
Pion CT - All events after cuts



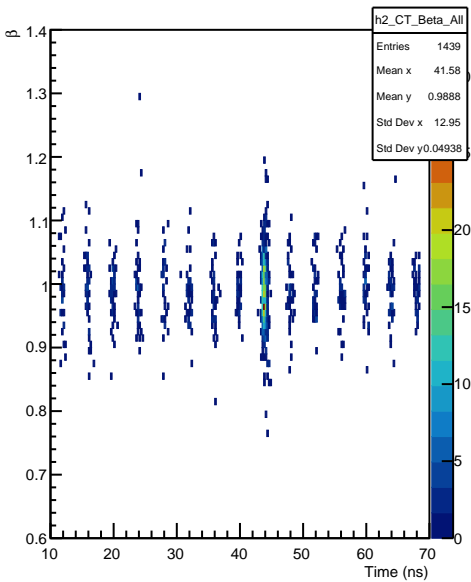
Pion CT - Prompt events after cuts



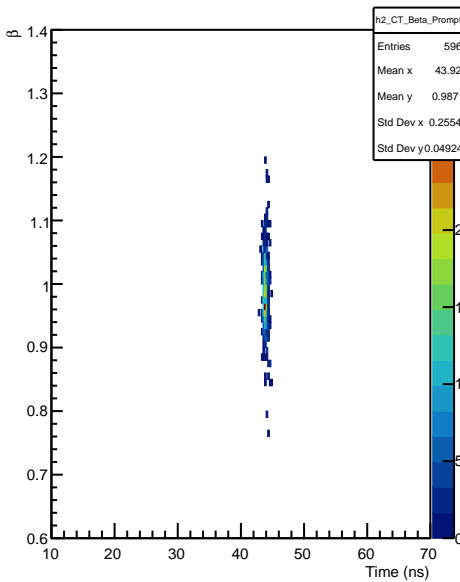
Pion CT - Random events after cuts



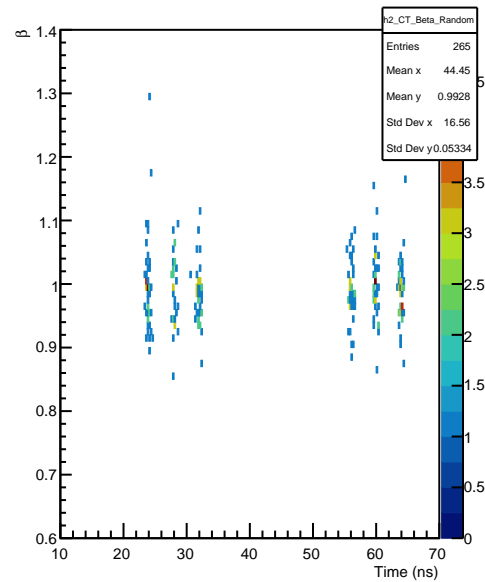
Pion CT vs  $\beta$  - All events after cuts



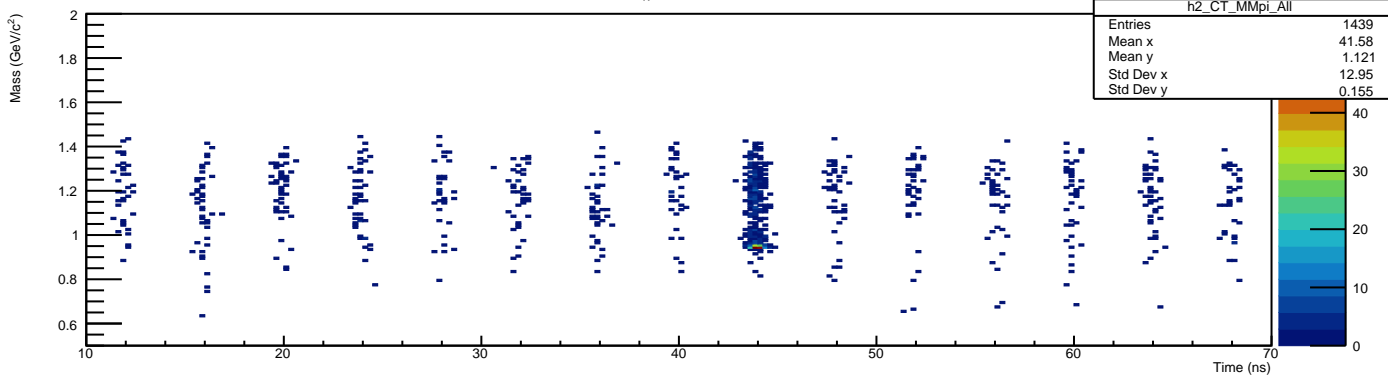
Pion CT vs  $\beta$  - Prompt events after cuts



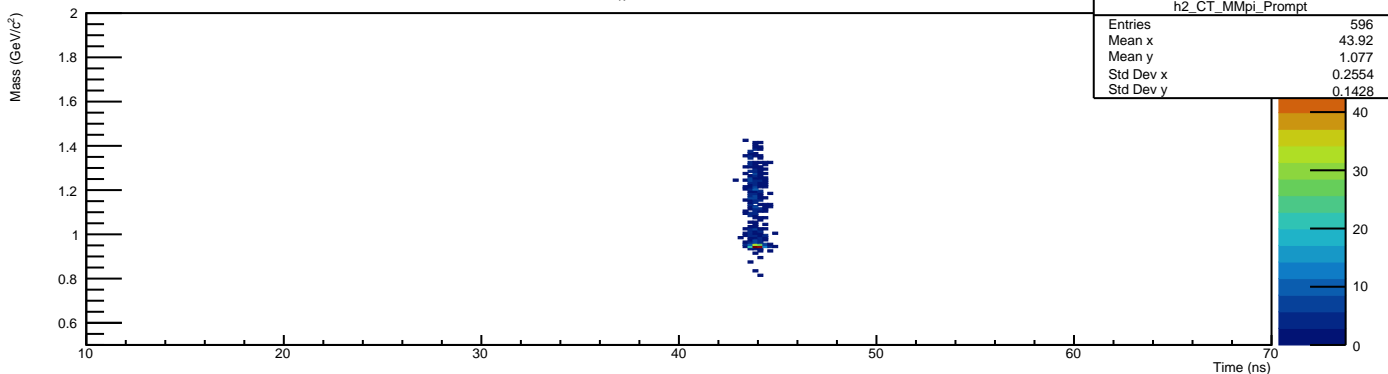
Pion CT vs  $\beta$  - Random events after cuts



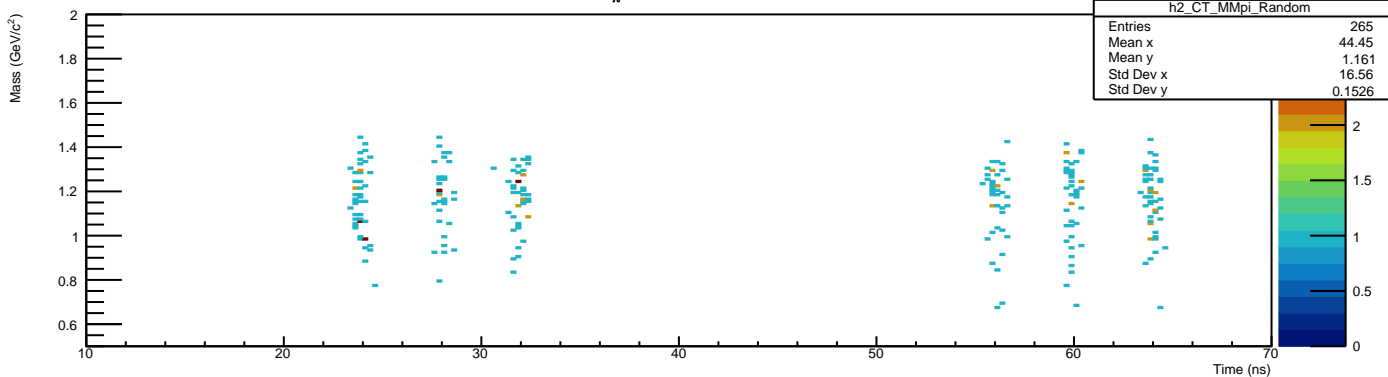
Pion CT vs  $MM_\pi$  - All events after cuts



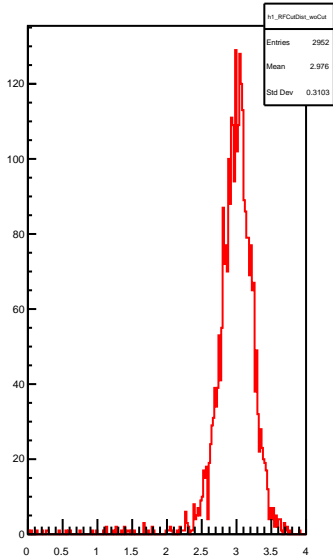
Pion CT vs  $MM_\pi$  - Prompt events after cuts



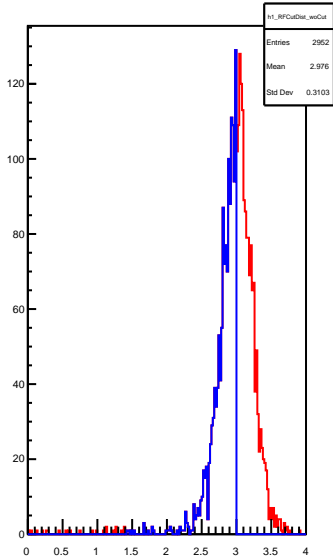
Pion CT vs  $MM_\pi$  - Random events after cuts



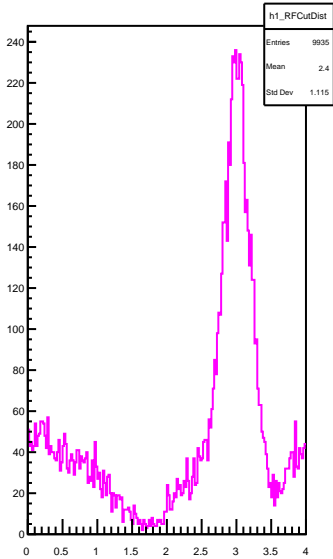
Pion RFCutDist - No RF Cut applied



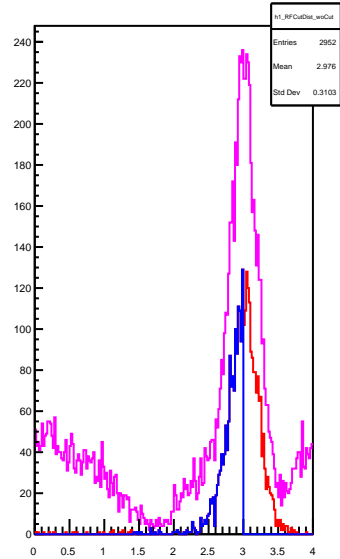
Pion RFCutDist - No RF Cut applied



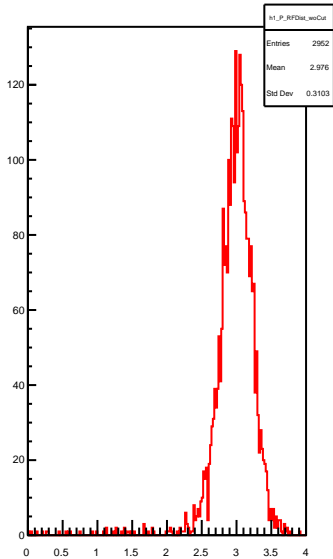
RFCutDist - No RF or PID Cut applied



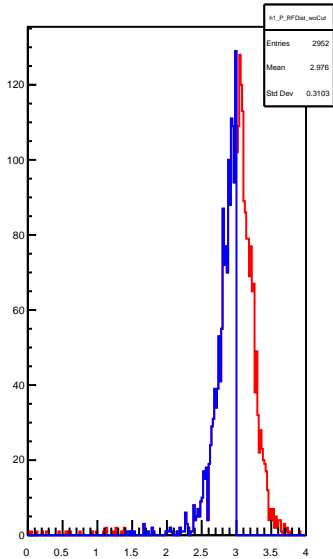
RFCutDist - No RF or PID Cut applied



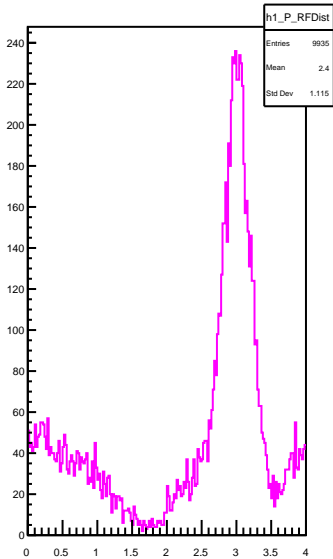
SHMS Pion RFDist - No RF Cut applied



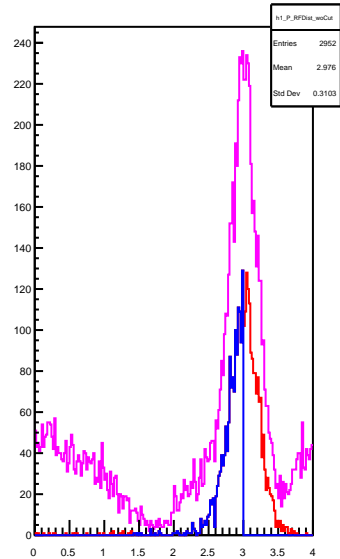
SHMS Pion RFDist - No RF Cut applied



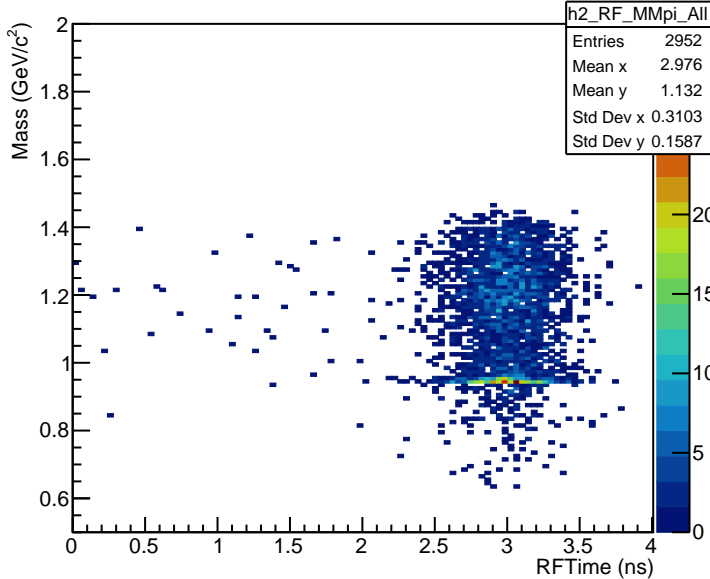
SHMS RFDist - No RF or PID Cut applied



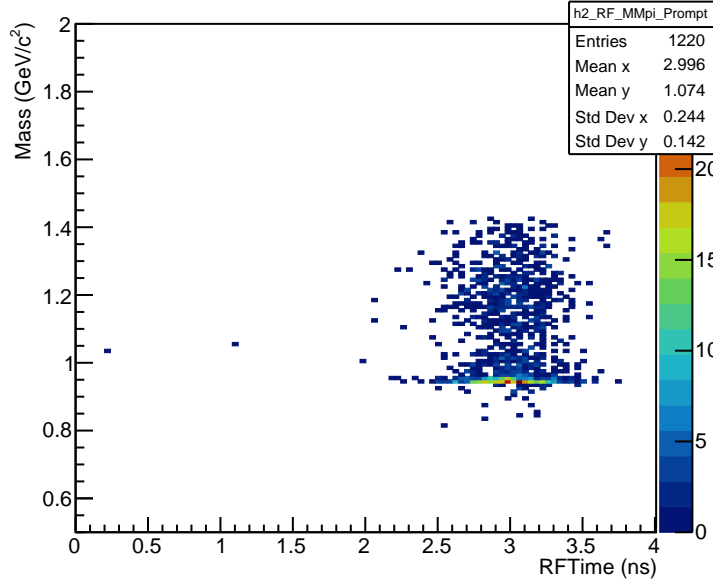
SHMS RFDist - No RF or PID Cut applied



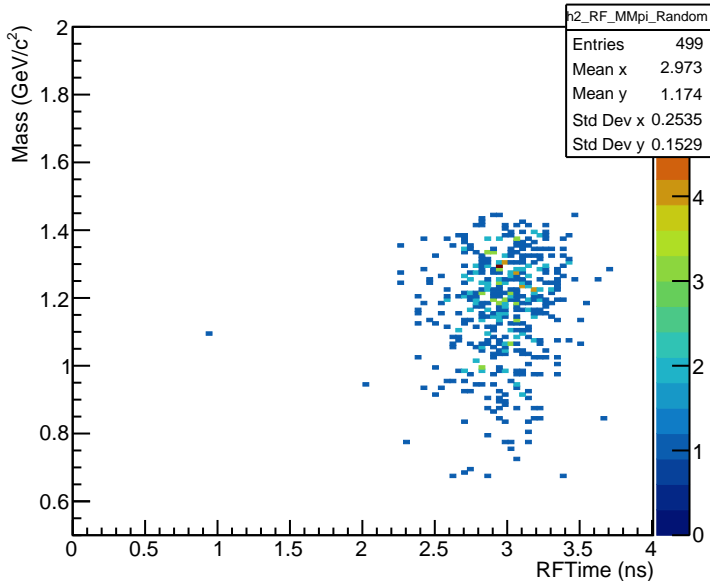
Pion RF vs  $MM_\pi$  - All events after cuts



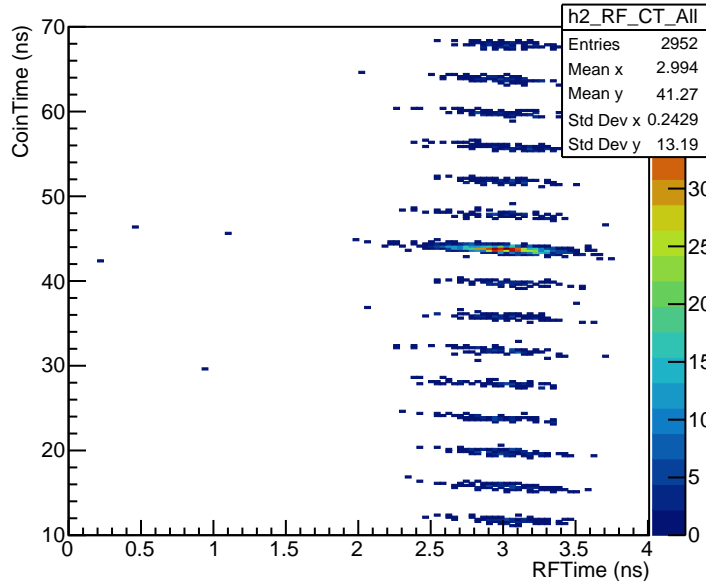
Pion RF vs  $MM_\pi$  - Prompt events after cuts



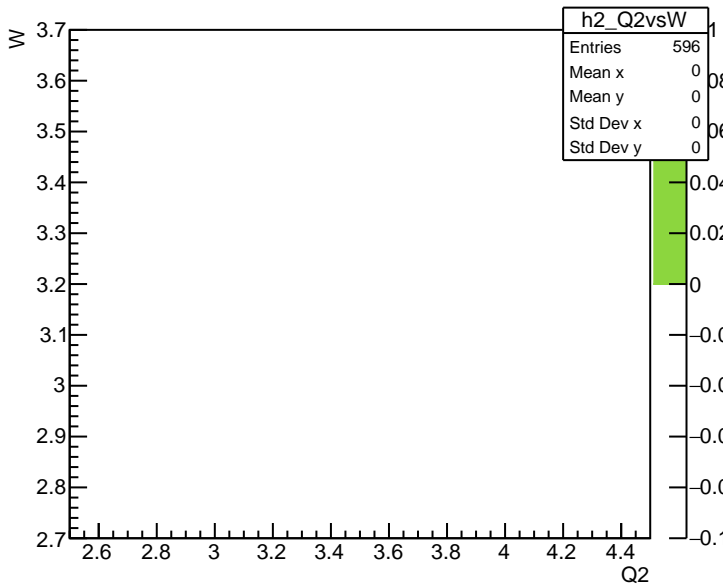
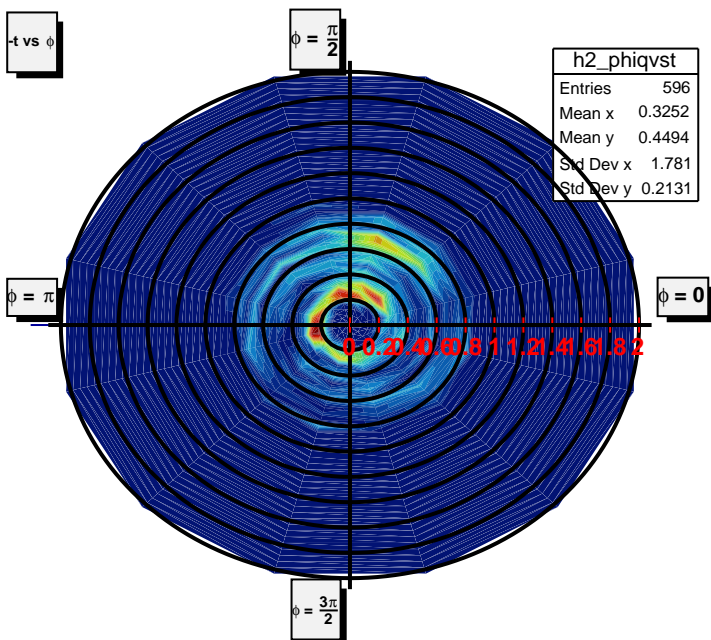
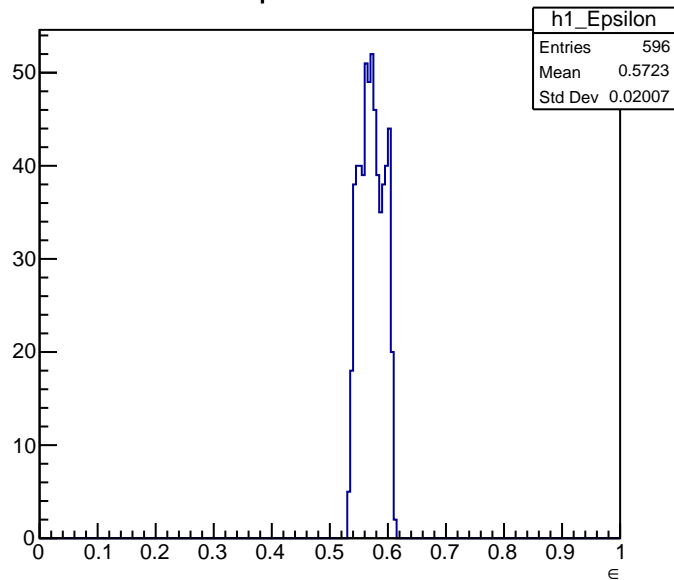
Pion RF vs  $MM_\pi$  - Random events after cuts



Pion Rf vs CT - All events after cuts



Q2 vs W

 $\epsilon$  - Prompt events after cuts $MM_\pi$  - BGSUB events after cuts