

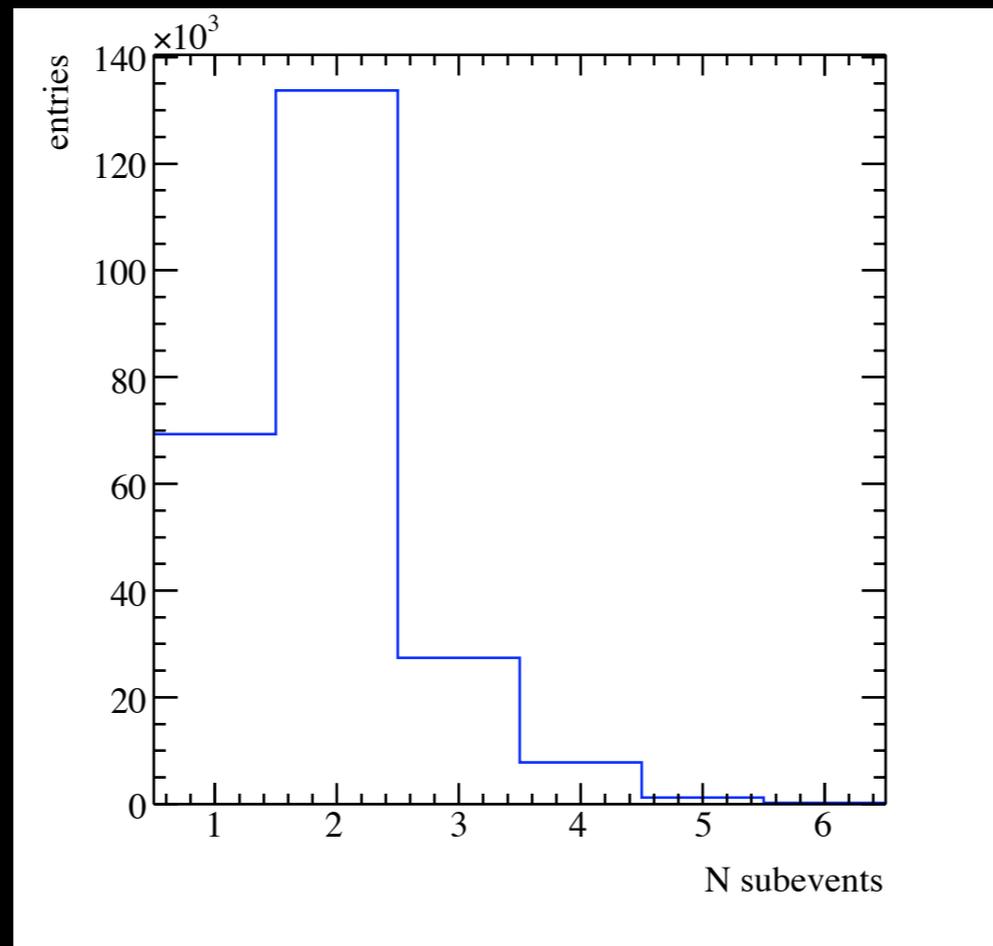
# CC $\pi^0$ update

Robert Nelson  
2009.8.13

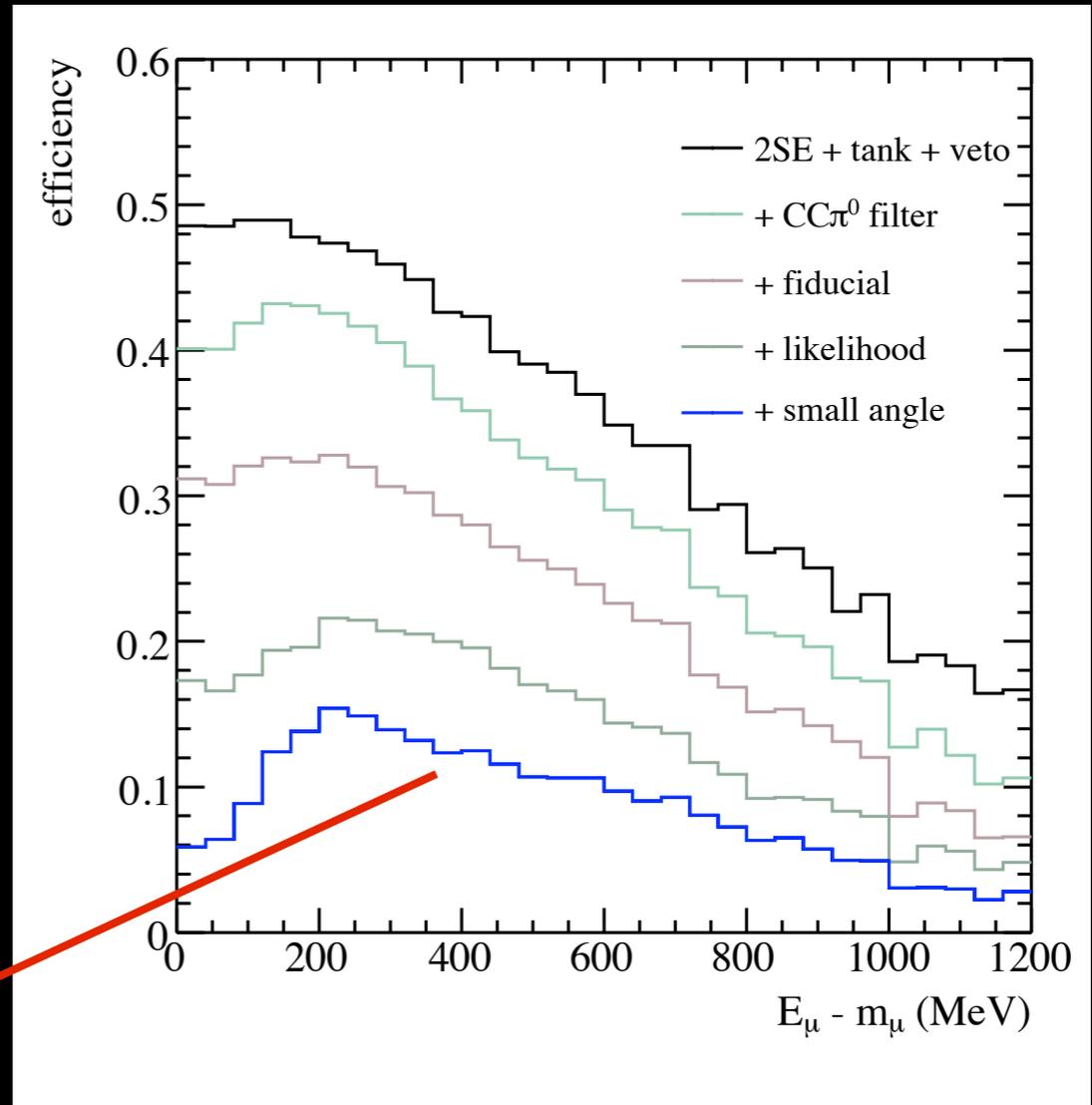
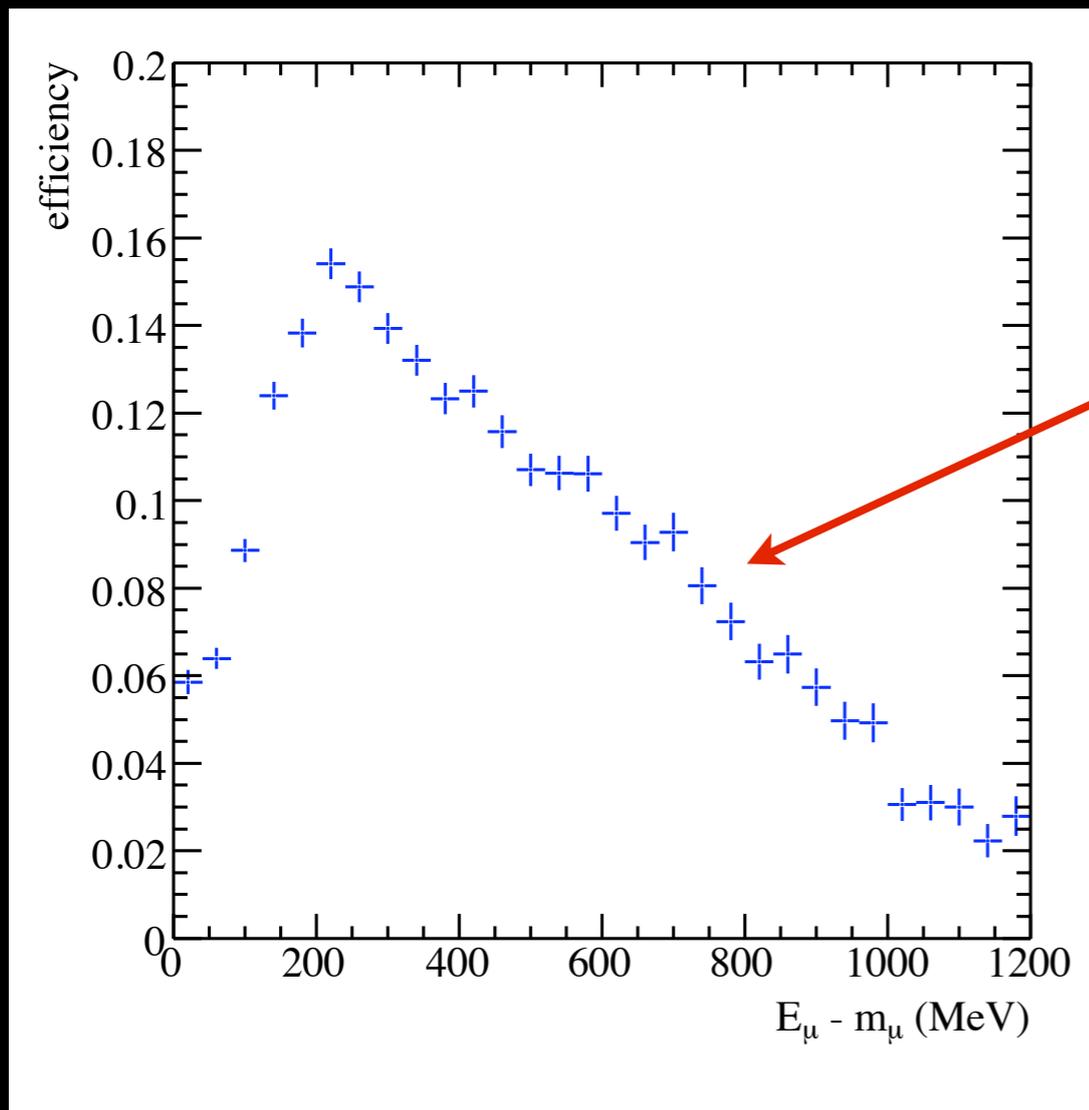
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# Observed $CC\pi^0$

- Are events with one  $\mu^+$  or  $\mu^-$  and one and only one  $\pi^0$  that came from the nucleus and no other mesons (consistent with the  $NC\pi^0$  analysis definition).
- The 2SE cut cuts about 40% of observed  $CC\pi^0$  events.

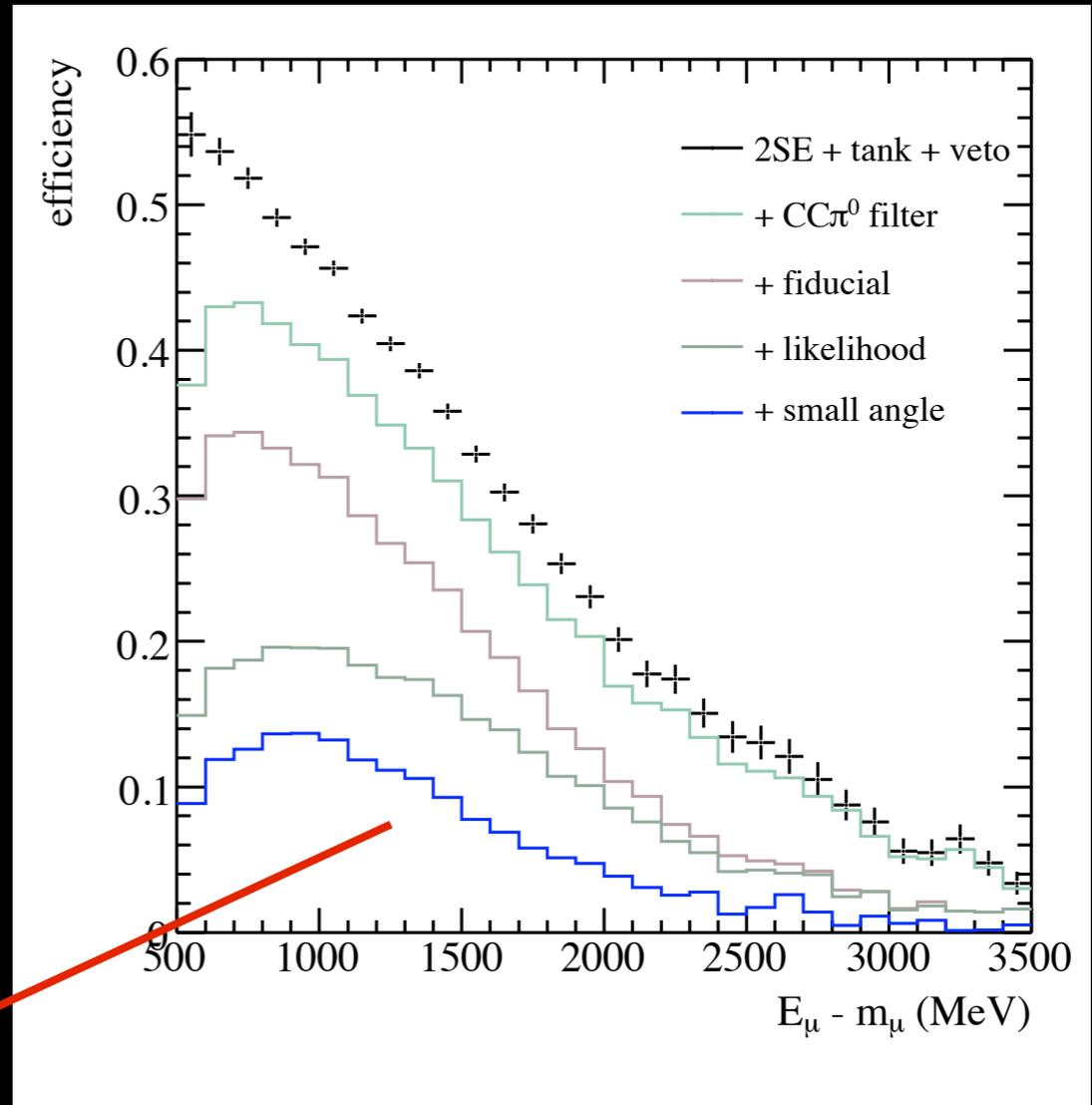
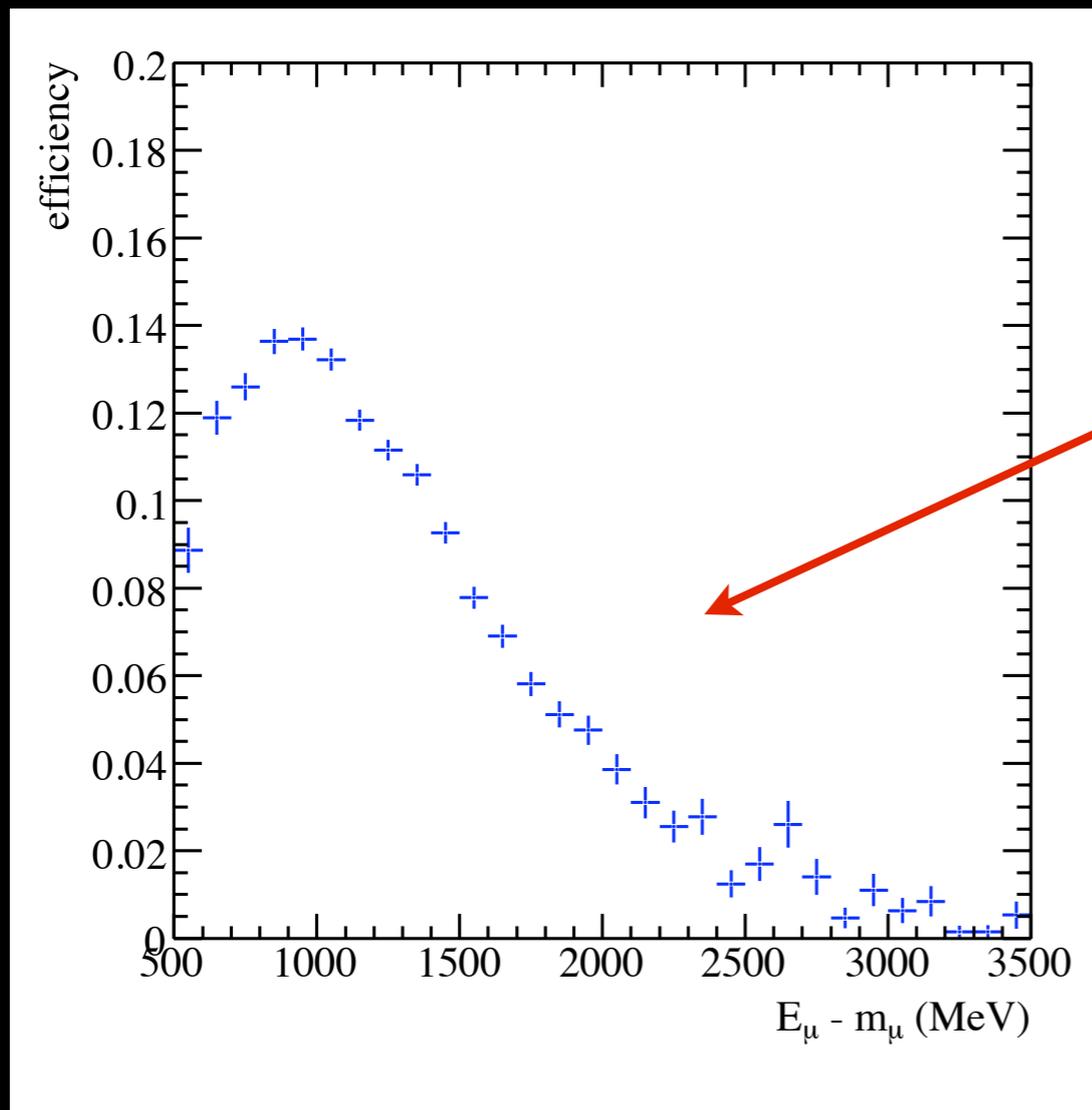


# Muon Efficiency



- Each cut is added in succession. Our total efficiency for all observed  $CC\pi^0$  is  $\sim 8\%$ .

# Neutrino Efficiency



- Higher energy bins will have to be combined.