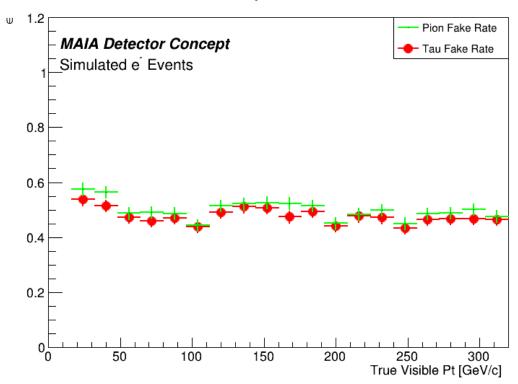
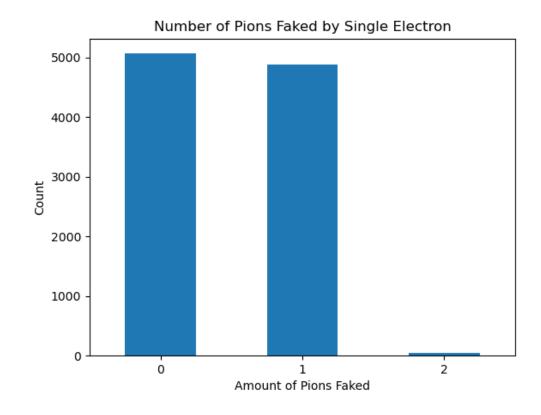
Understanding Faking Pions

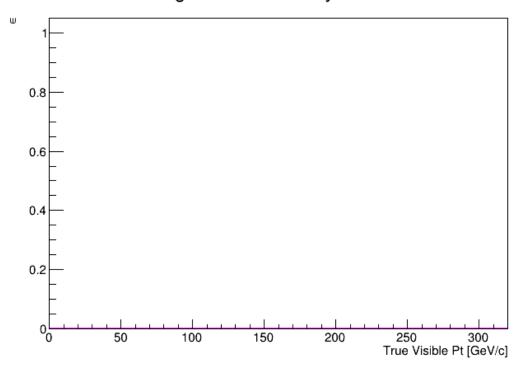
Fake Rate by Electrons vs Pt



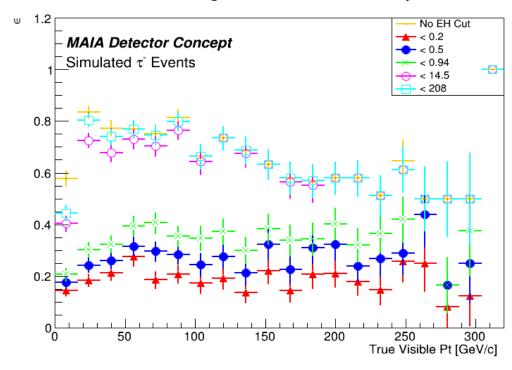


Applying the E/H Cut

One-Prong Tau Fake Rate by Electrons vs Pt



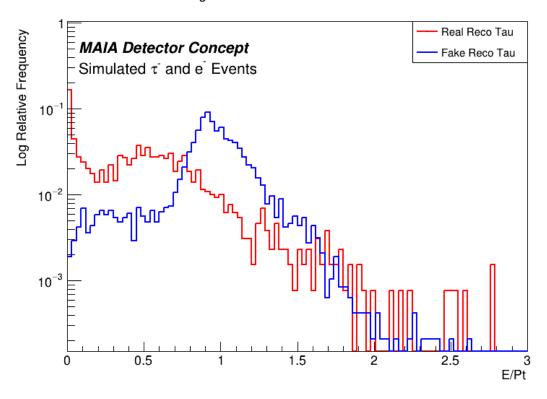
Tau One-Prong Reconstruction Efficiency vs Pt



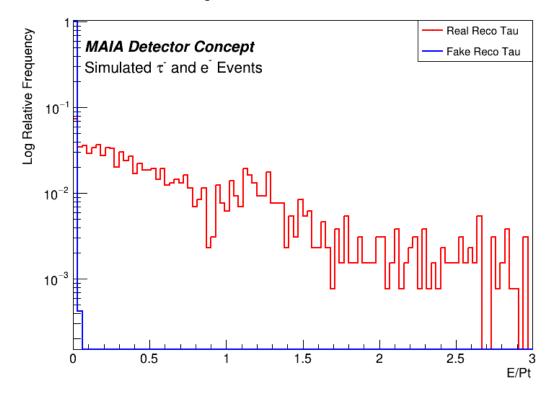
While highly effective at catching electrons, cuts hurt real tau reconstruction efficiency

E/Pt and H/Pt

Normalized Log Distribution of E/Pt of Reconstructed Taus

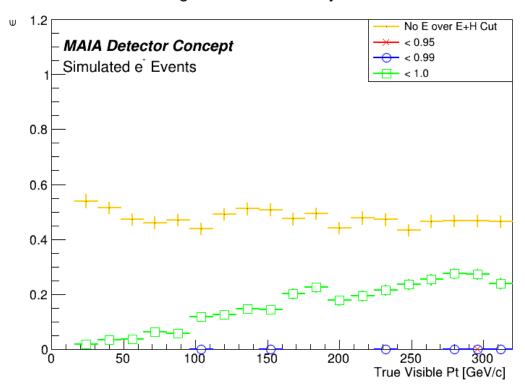


Normalized Log Distribution of H/Pt of Reconstructed Taus

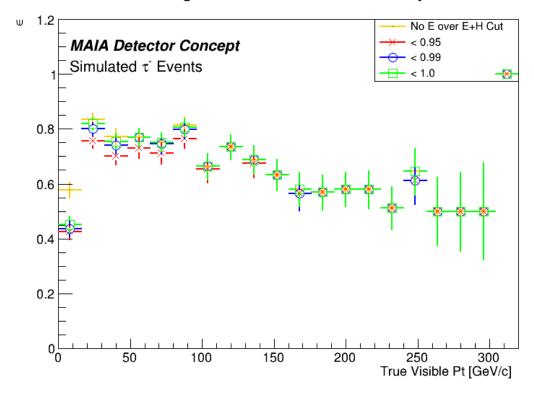


Switching to E/(E+H)

One-Prong Tau Fake Rate by Electrons vs Pt



One-Prong Tau Reconstruction Efficiency vs Pt



Muons in TauFinder! (WIP)

Should be very similar to process with electrons. A ratio using E and H likely won't be effective due to muons passing through those detectors. A ratio utilizing the energy in the muon detector will likely be the solution.