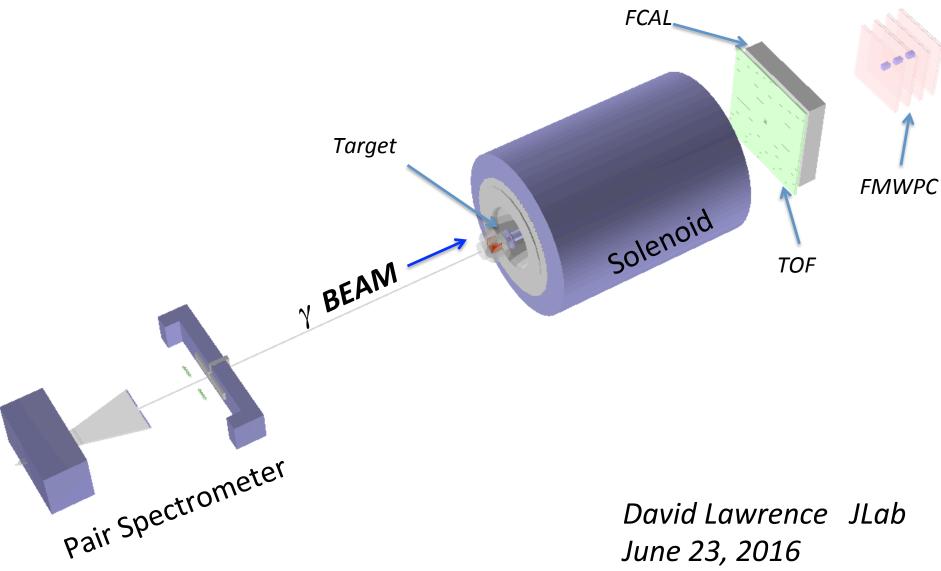
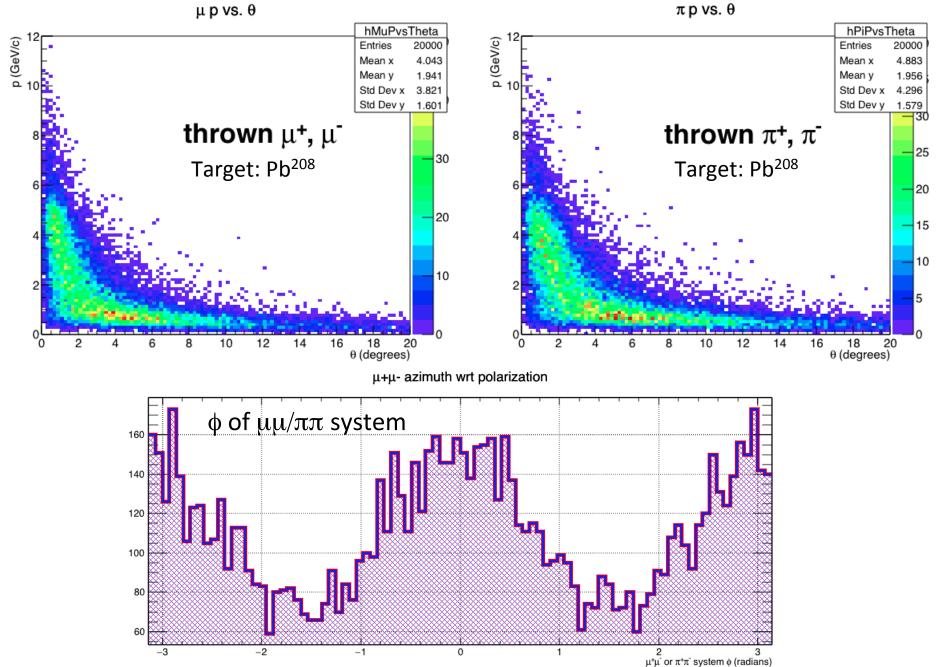
## CPPsim = GEANT 4 simulation

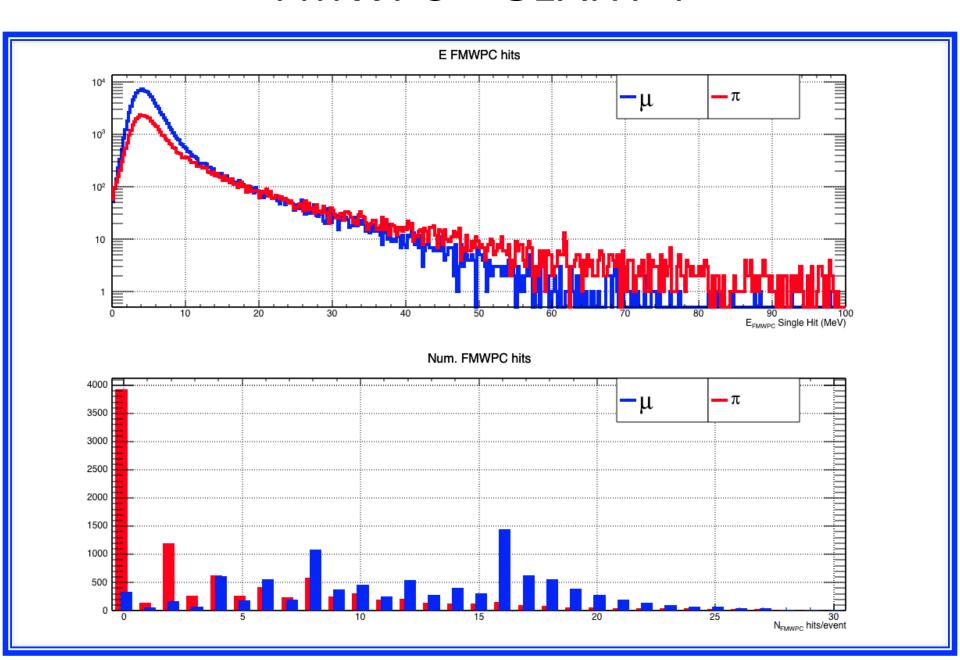


June 23, 2016

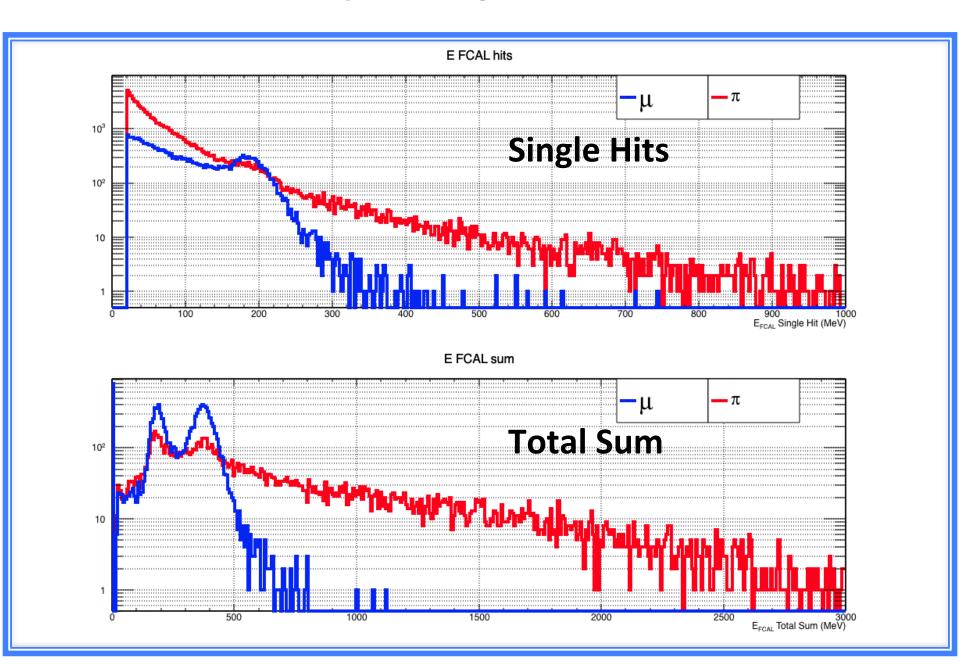
### Generated Particles (gen\_2mu)



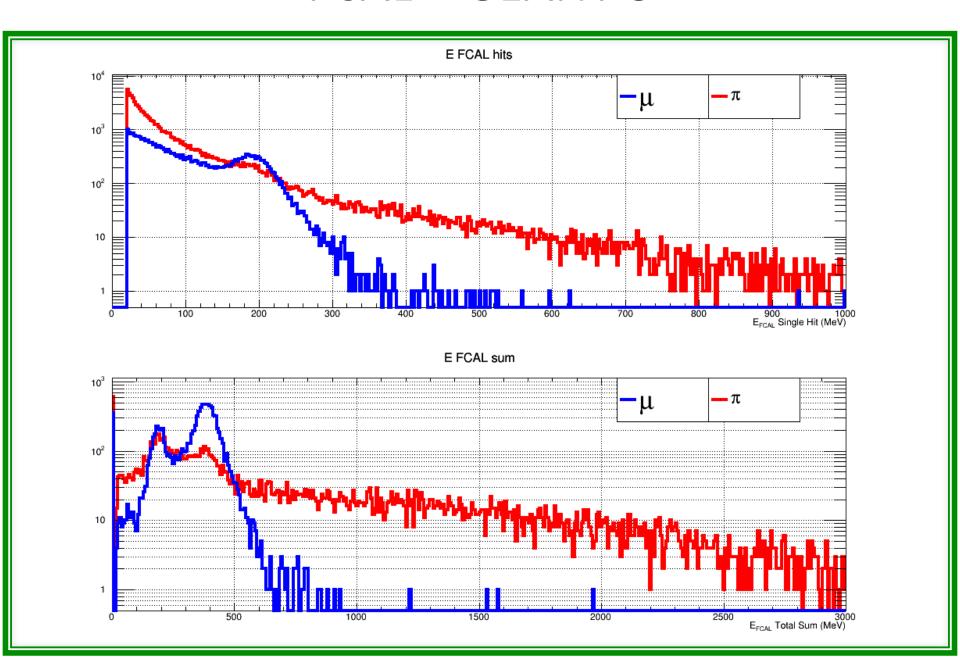
# FMWPC - GEANT 4



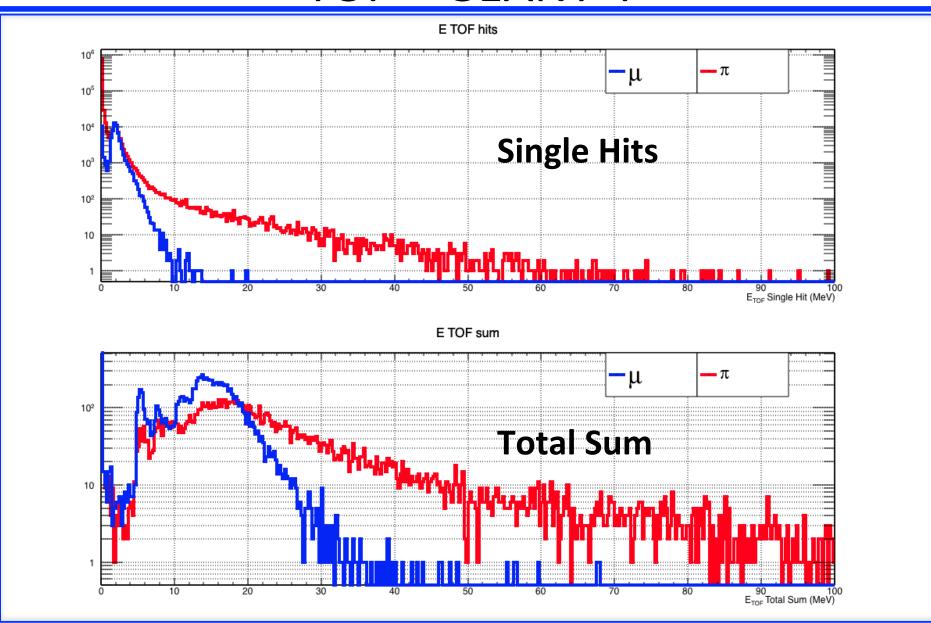
#### FCAL – GEANT 4



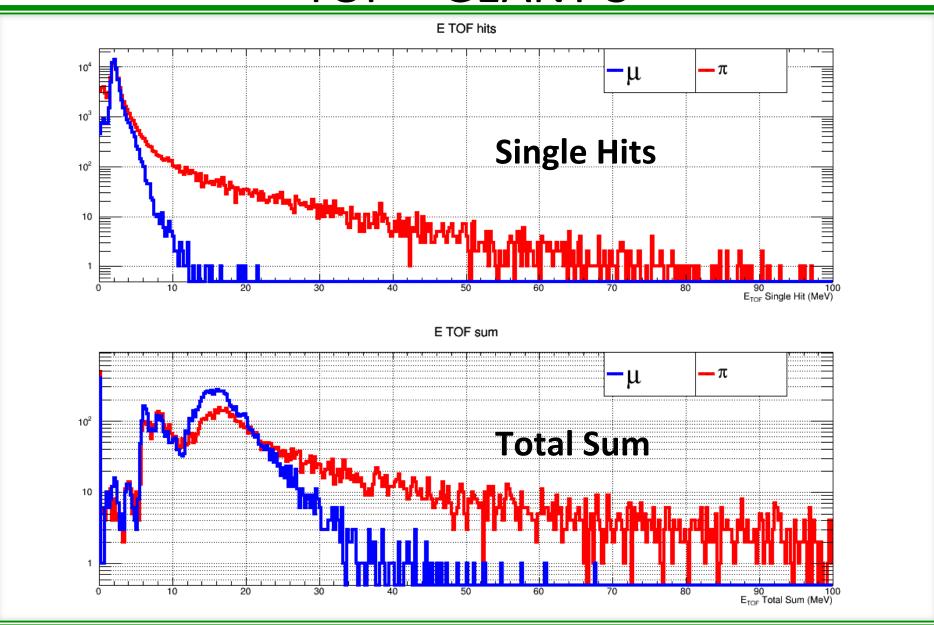
#### FCAL – GEANT 3



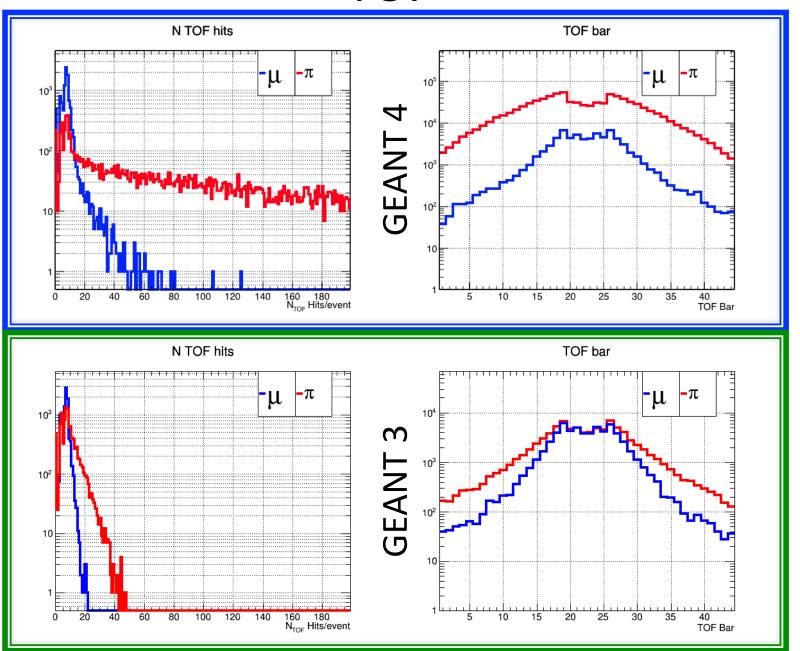
#### TOF - GEANT 4



#### TOF - GEANT 3



#### **TOF**



# Summary

- Several areas of good agreement between G3 and G4 simulations
- Next Steps
  - Change target to Sn<sup>116</sup>(?)
  - Move vertex location back from z=65cm to z=1cm
  - Map locations of hadronic showers
  - Apply threshold for TOF hits
  - Train MVA to classify event as  $\mu$  or  $\pi$