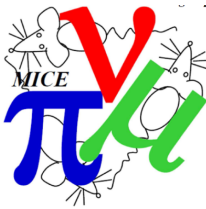


Positrons in G4BL

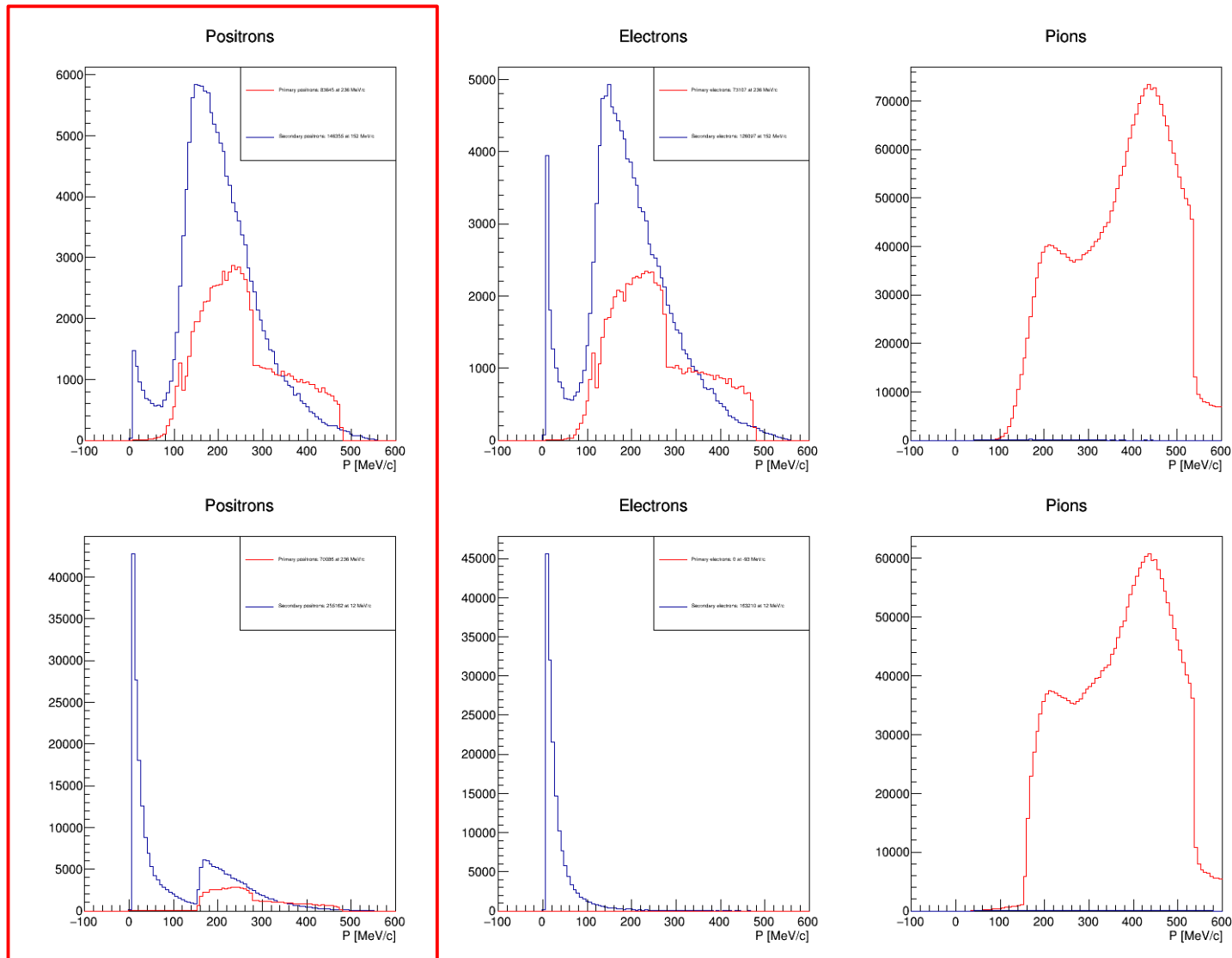
P. Franchini

30th March 2017

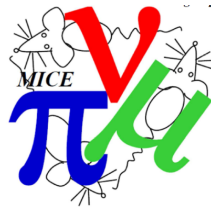


-
- Typo in the G4Beamline deck file for the target (`beam_secondaries.in`)
 - We should simulate only positive tracks directly from the target since after D1 we select only secondary electrons that have the same shape of the secondary positrons

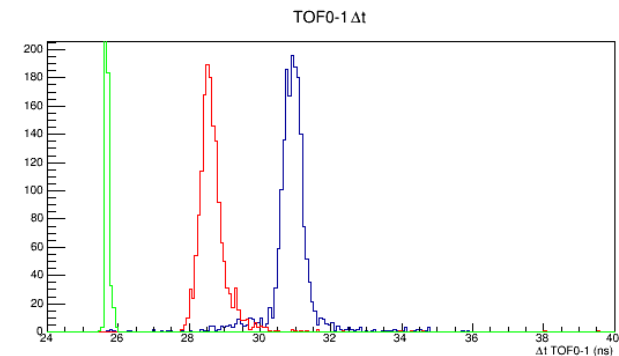
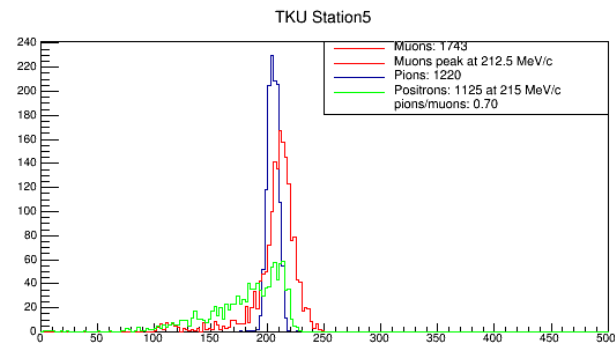
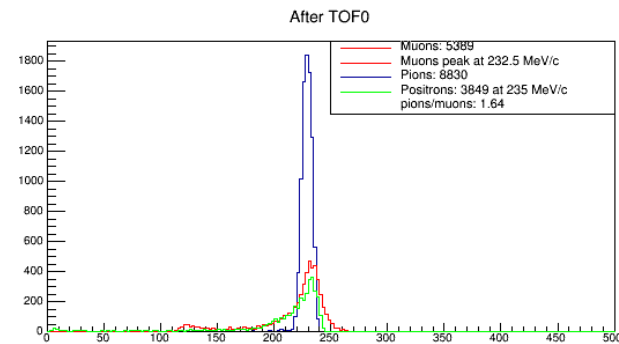
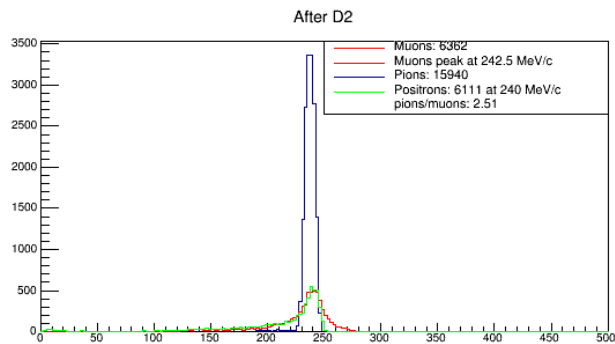
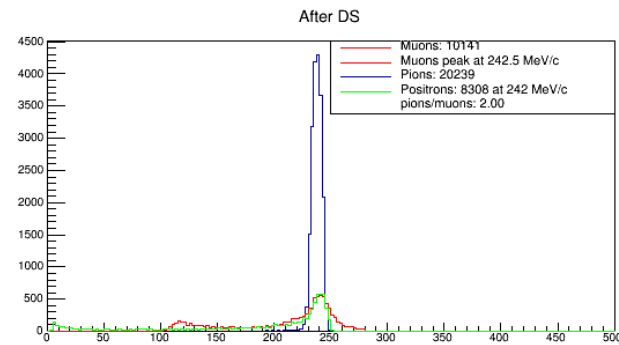
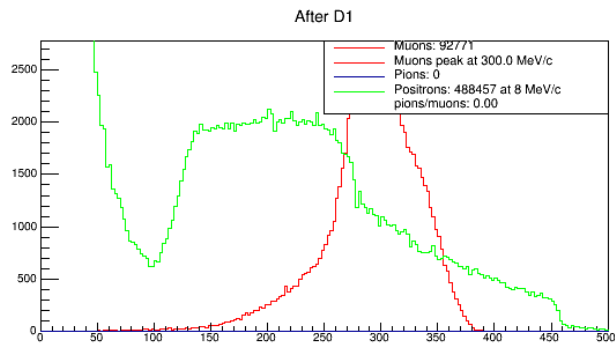
Before and after D1



Red primaries
Blue secondaries

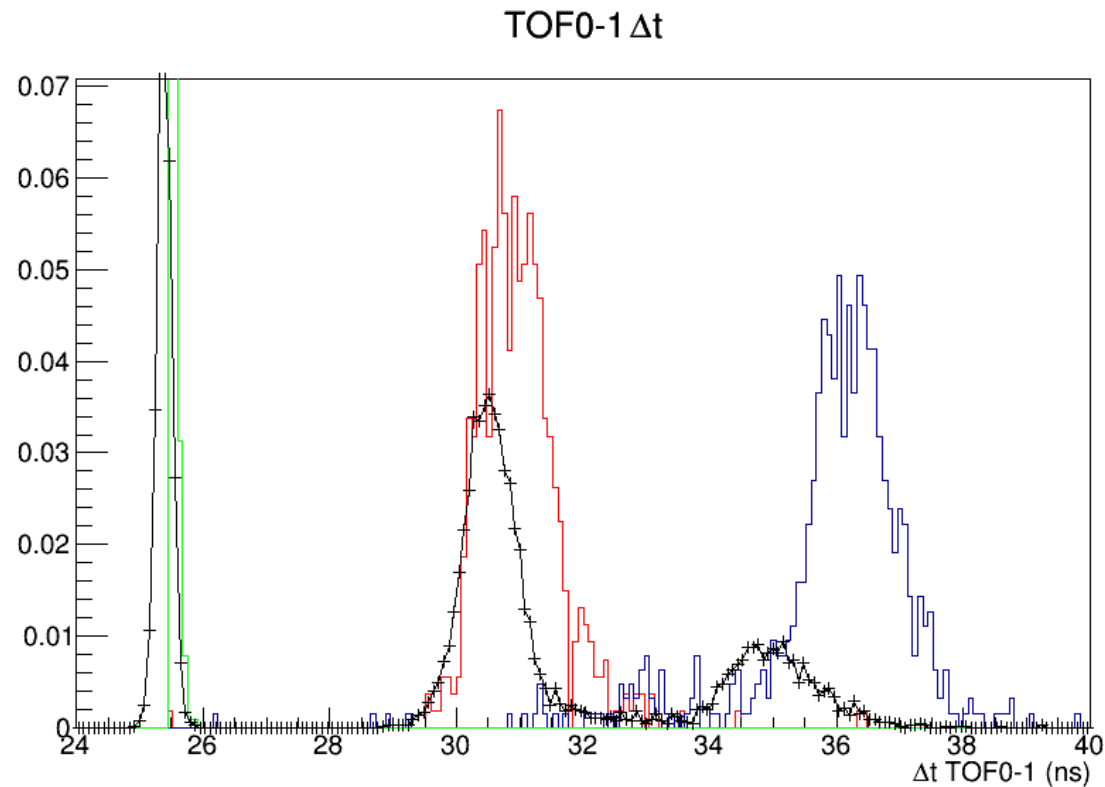


200 MeV/c pion beam



DeltaT: data vs MC

Run 9180, 3-140 MeV/c:



- Wrong position: wrong geometry in G4BL \rightarrow MAUS simulation
- Wrong yields: wrong target generation?