

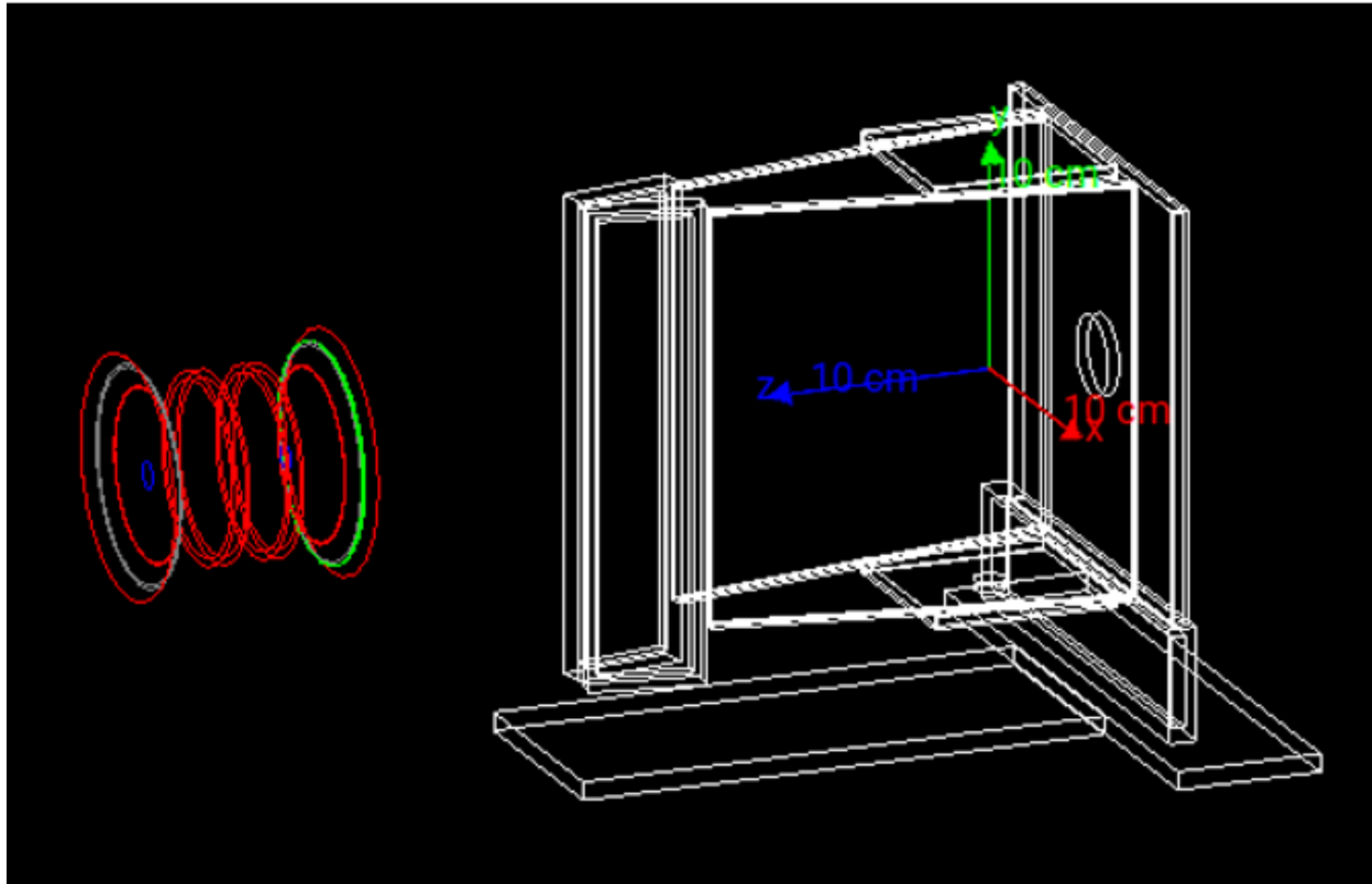
# Update muX meeting 26/07

Marie Deseyn

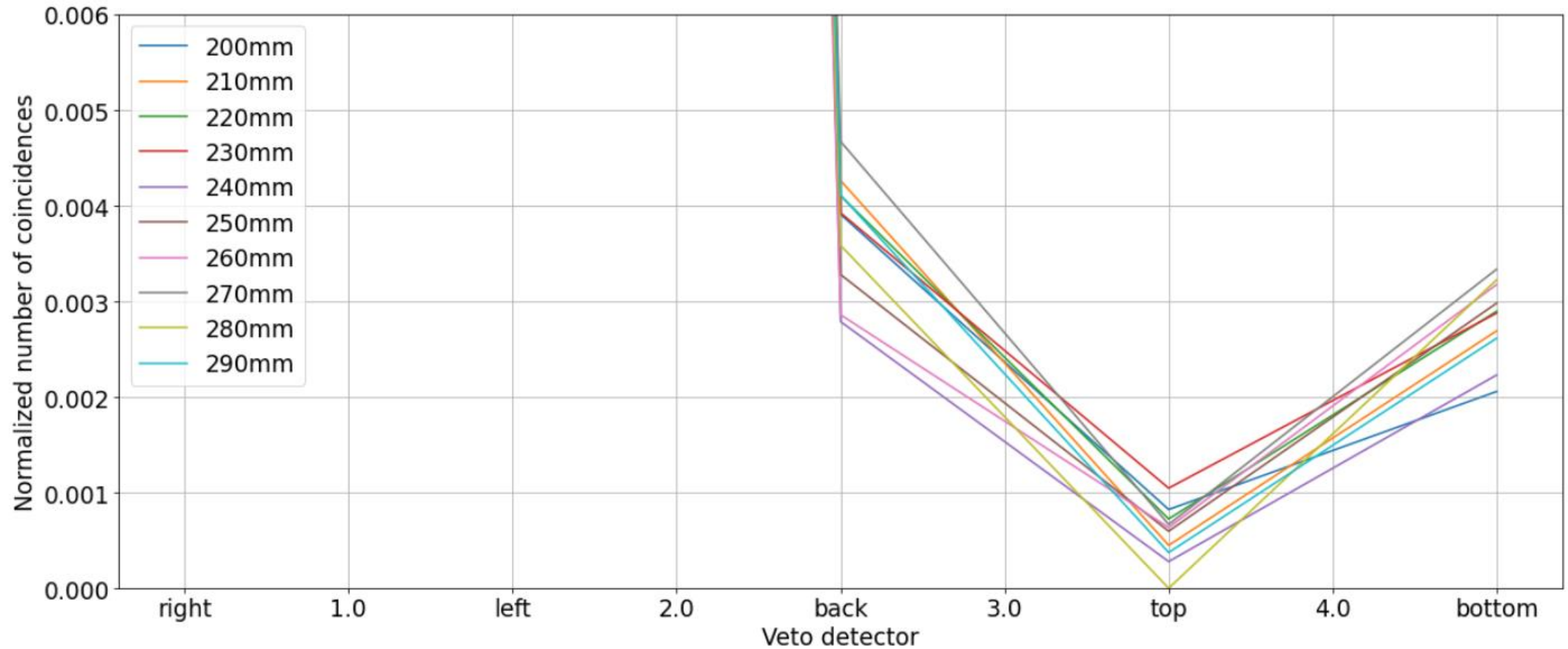
# Geant4 simulations



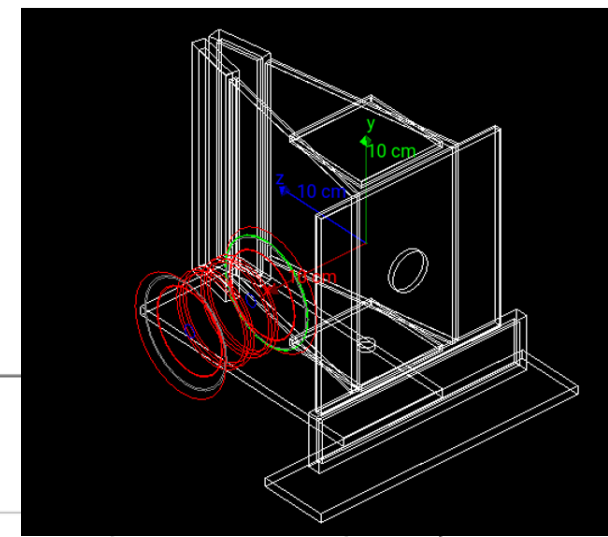
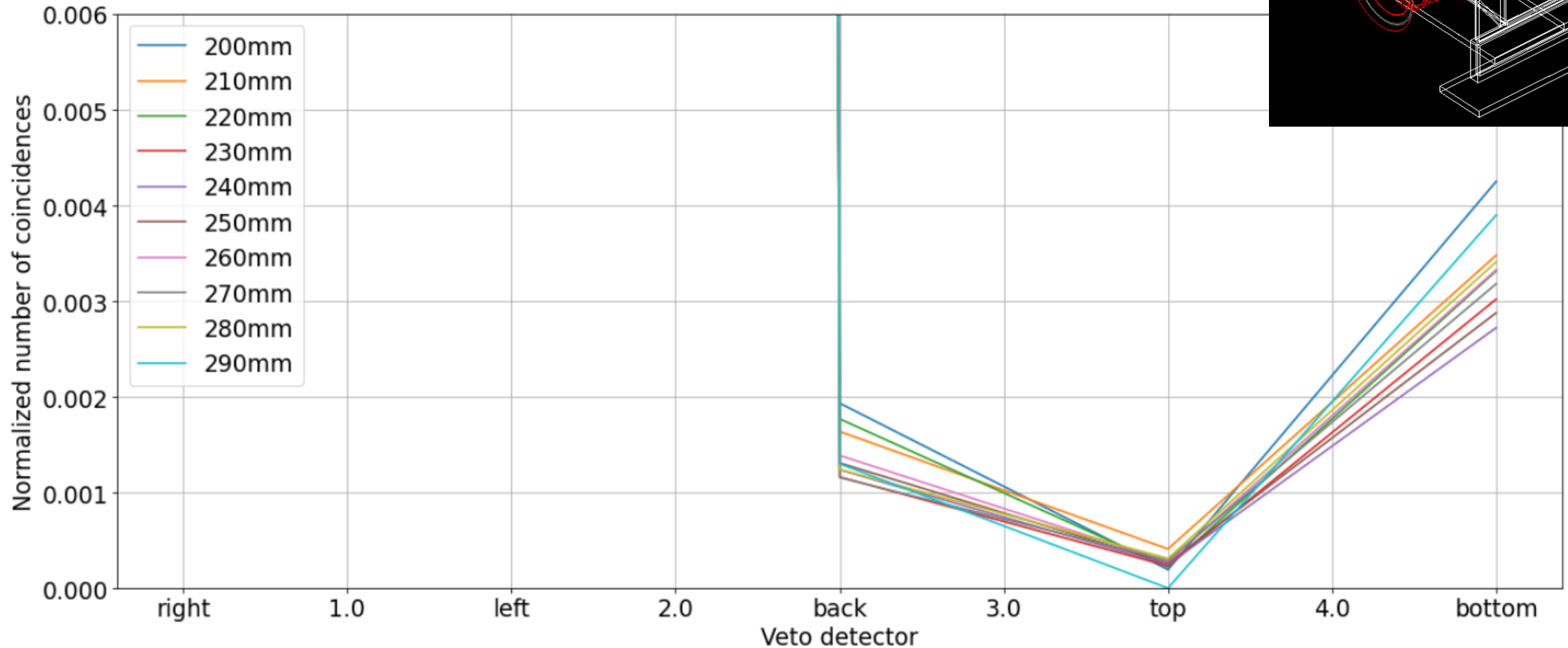
# Electron-gamma coincidences



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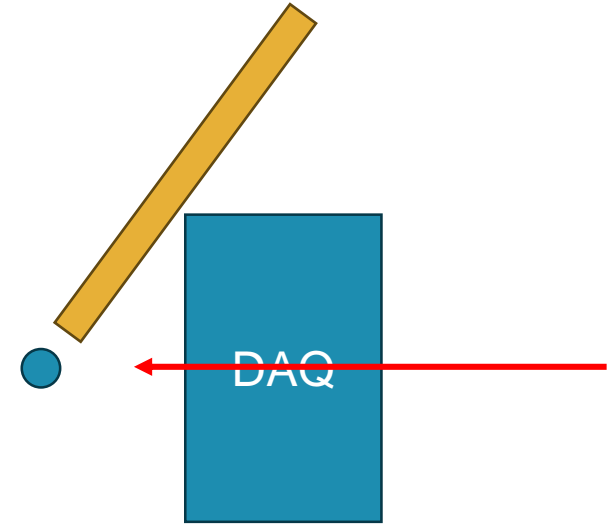


# Electron-gamma coincidences

- More electron-gamma coincidences in bottom vs. top → most likely because more brehmstrahlung is generated for bottom electrons due to the aluminum support structure
- Last year, the scintillator with the hole was the bottom one → Should we switch this such that the scintillator with the hole is now on top? (because there will be less Brehmstrahlung generated from electrons going up)

# Geant4

- What are the ranges of the detector arms
- What is minimal angle between 2 arms



# Au-Pb data analysis



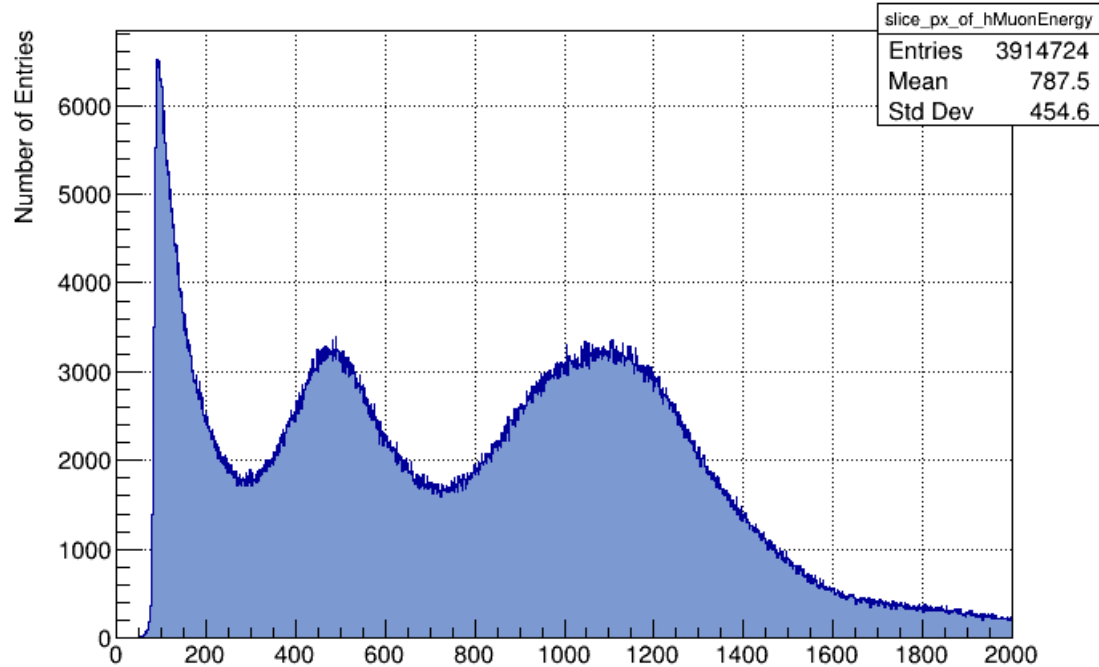


# Scintillator threshold

## Muon veto:

No cut --> Threshold = 0

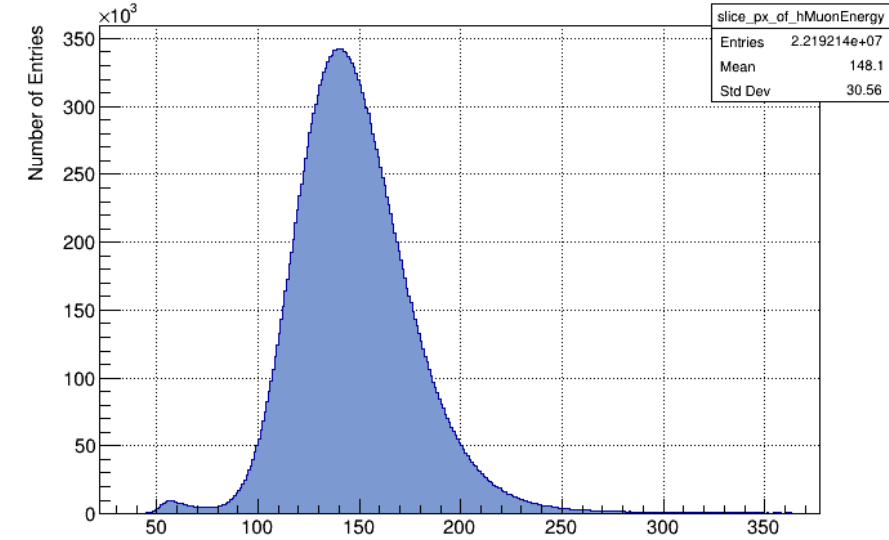
ProjectionX of biny=2 [y=49.5..50.5]



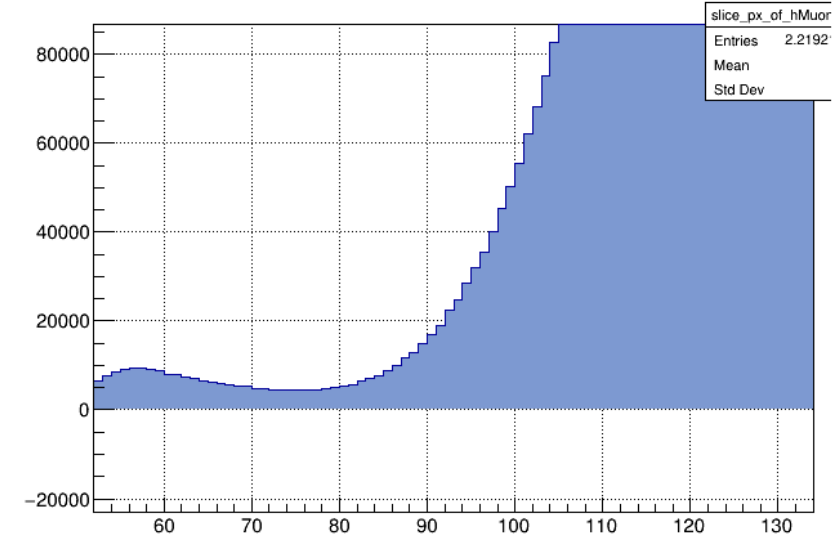
## Muon entrance:

75

ProjectionX of biny=1 [y=48.5..49.5]



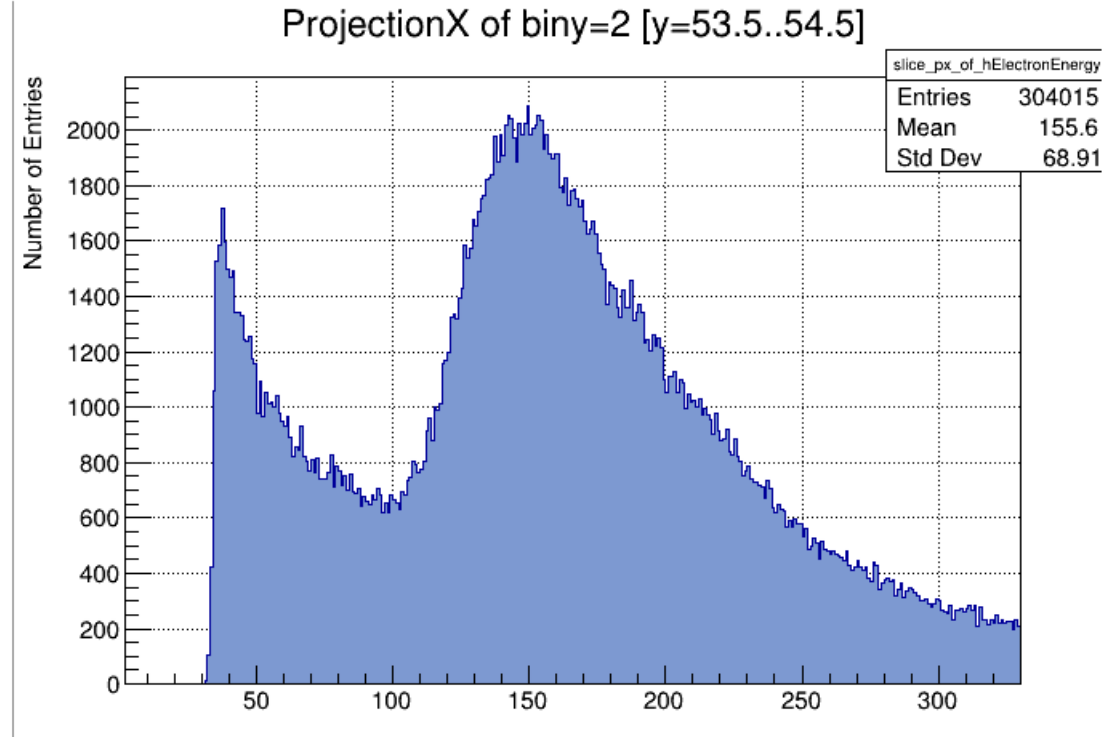
ProjectionX of biny=1 [y=48.5..49.5]



# Scintillator threshold

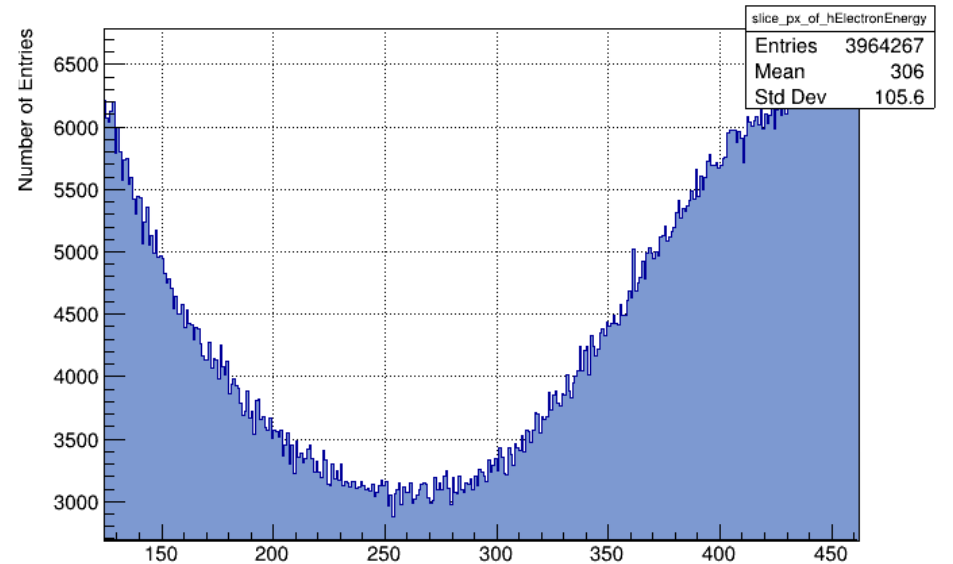
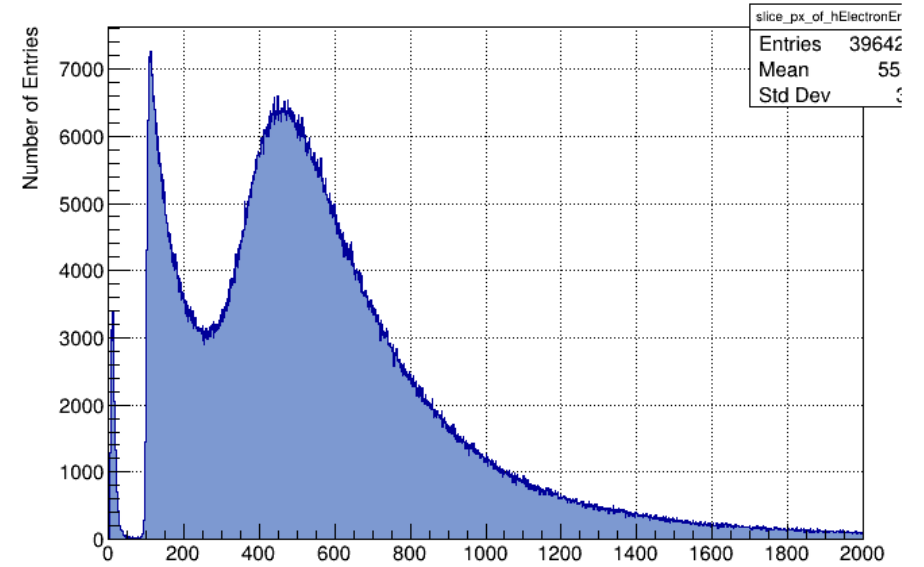
Veto bottom

100



Veto back

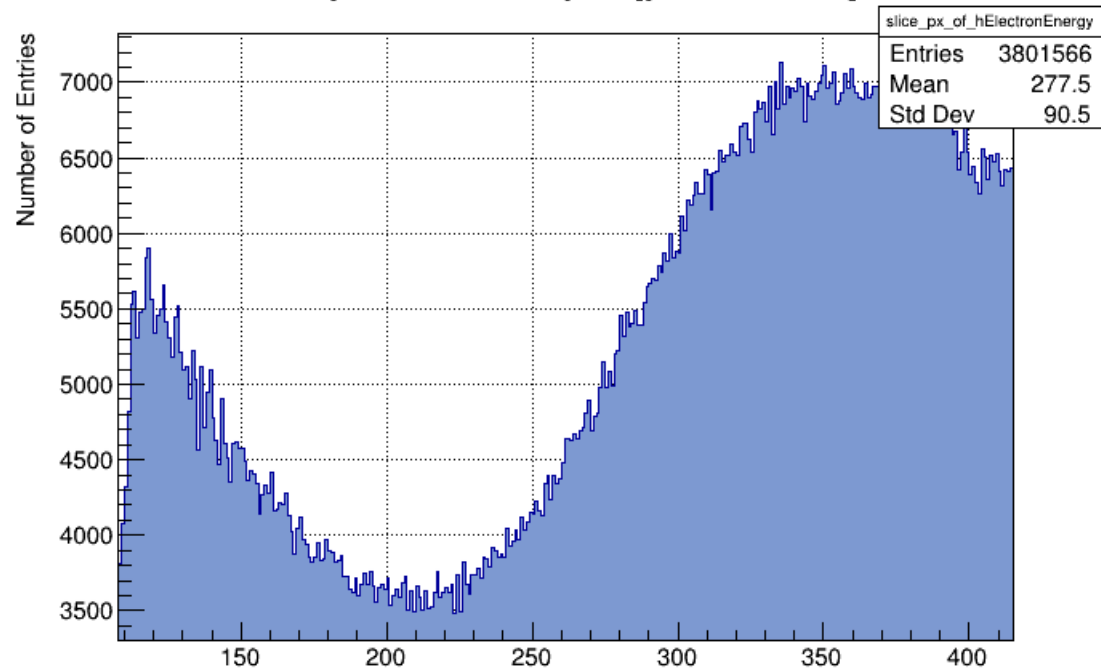
250



# Scintillator threshold

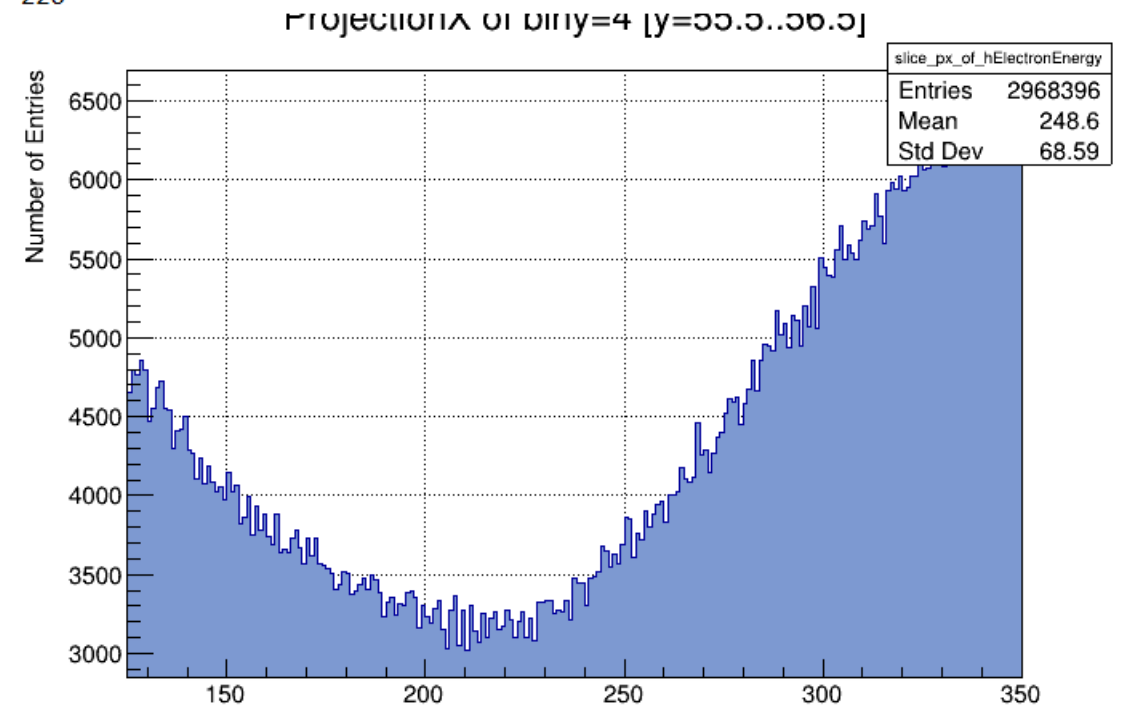
Veto left

220



Veto right

220



# Scintillator threshold

