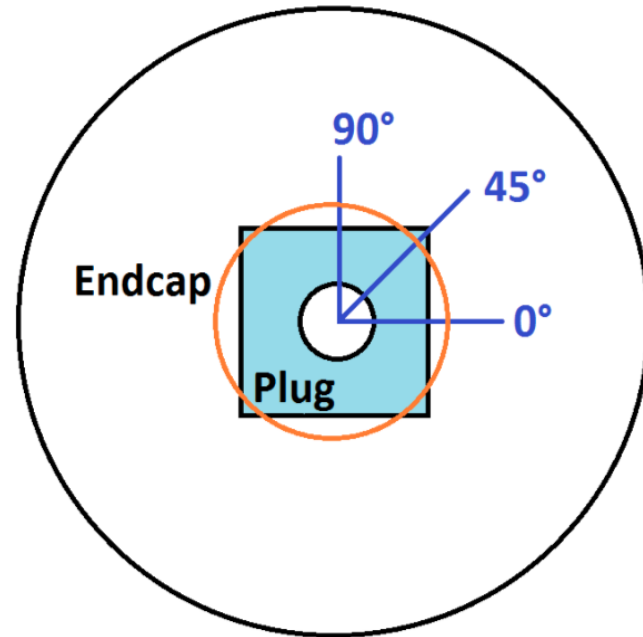
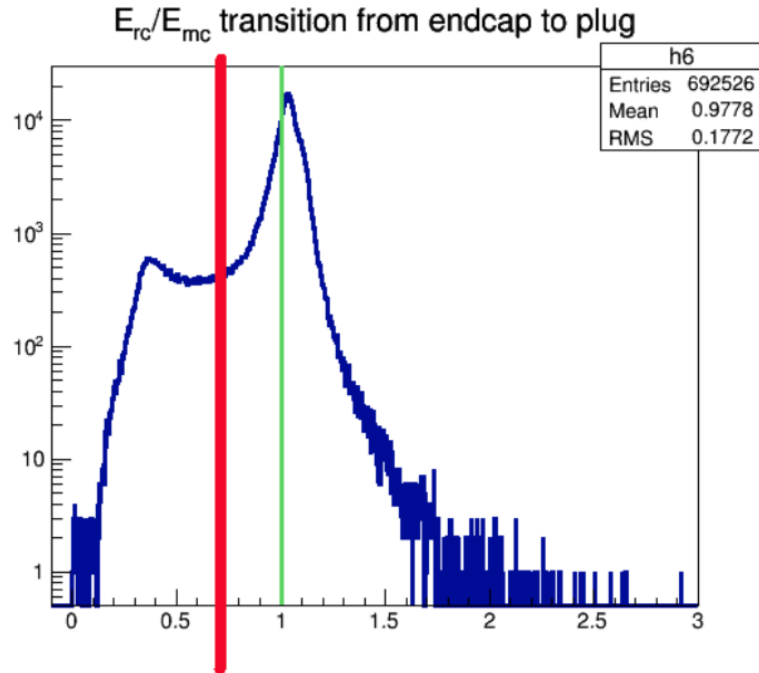


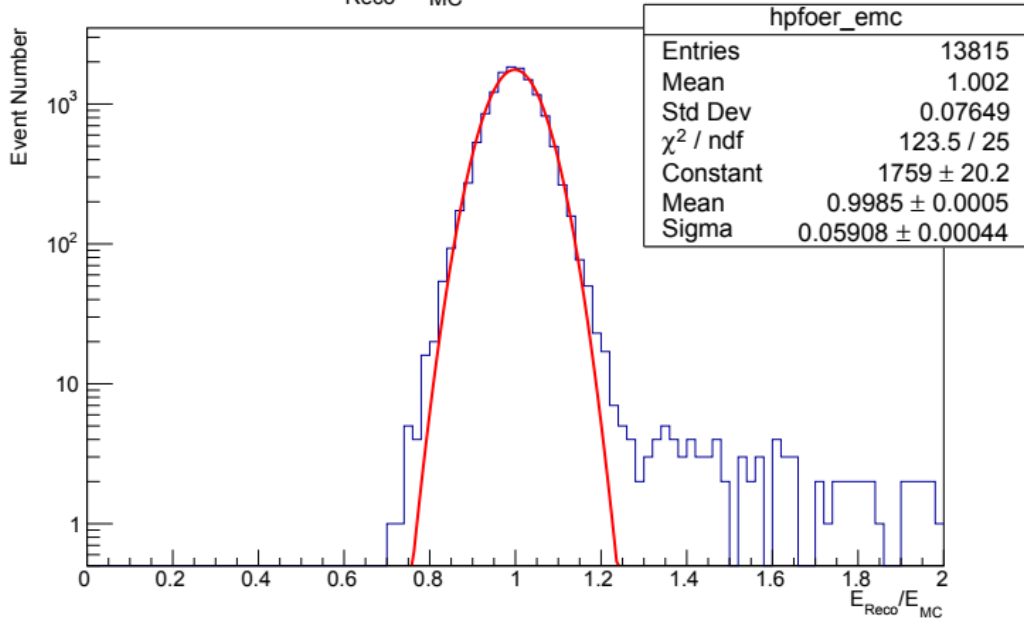
# WIMP search in Mono-Photon Channel

# Problems in the previous work

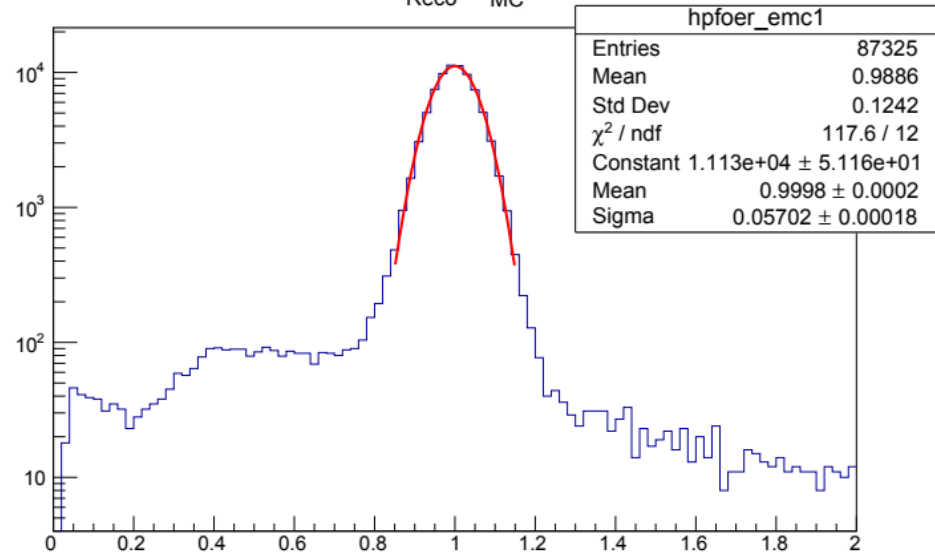


# Plots according to current sample

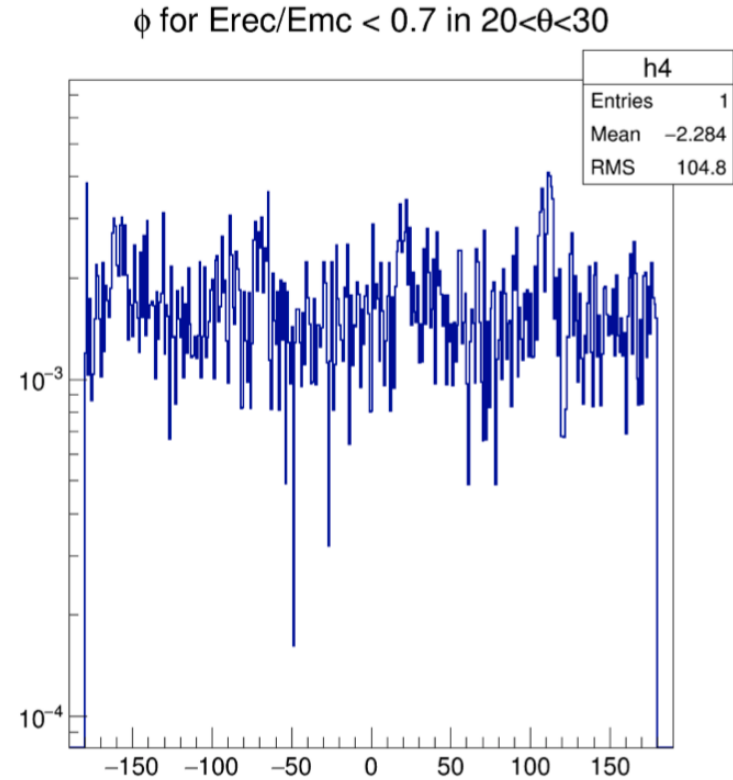
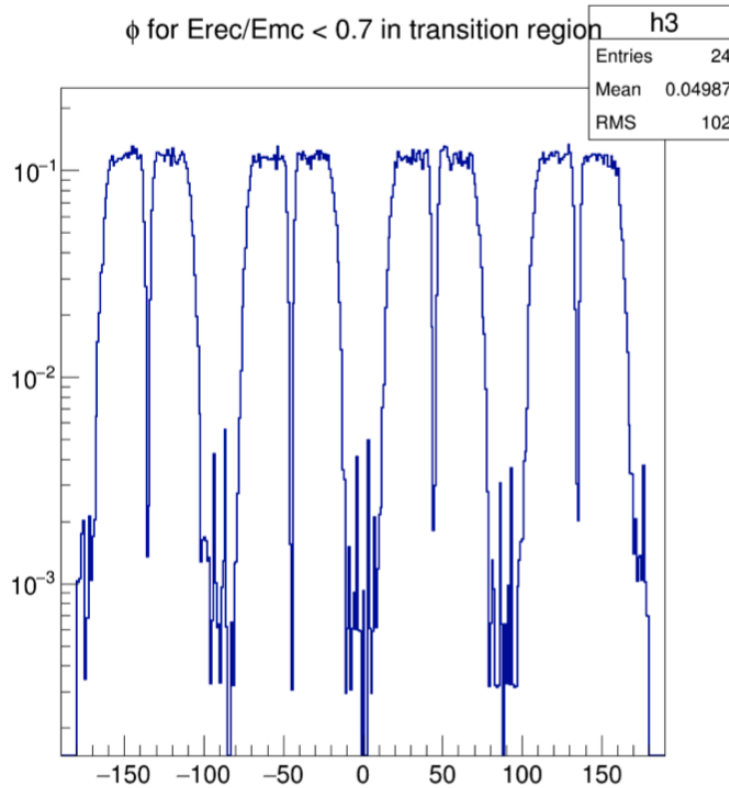
$E_{\text{Reco}}/E_{\text{MC}}$  for  $9.3^\circ < \theta < 12^\circ$



$E_{\text{Reco}}/E_{\text{MC}}$

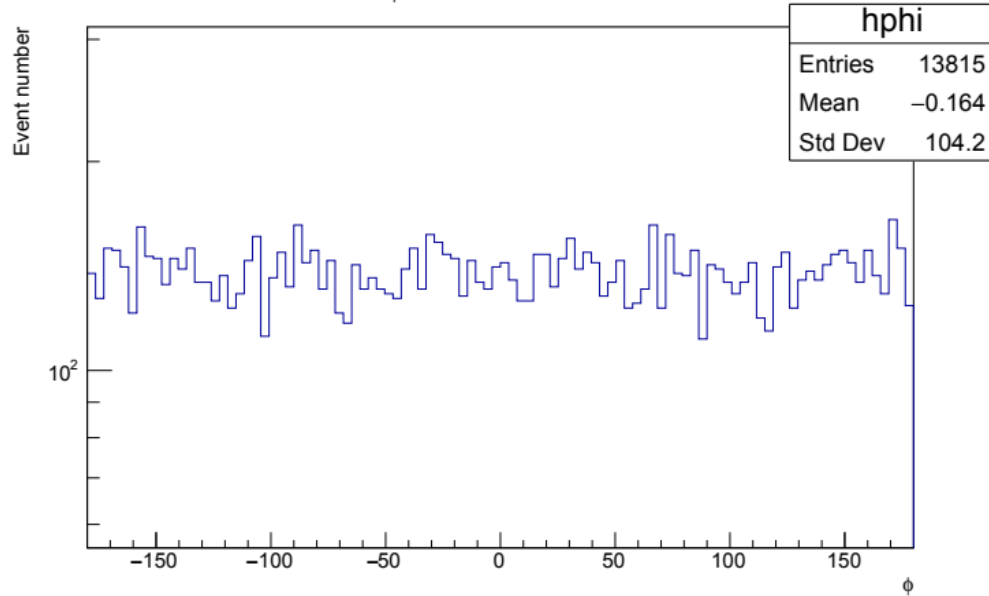


# Problems in the previous work

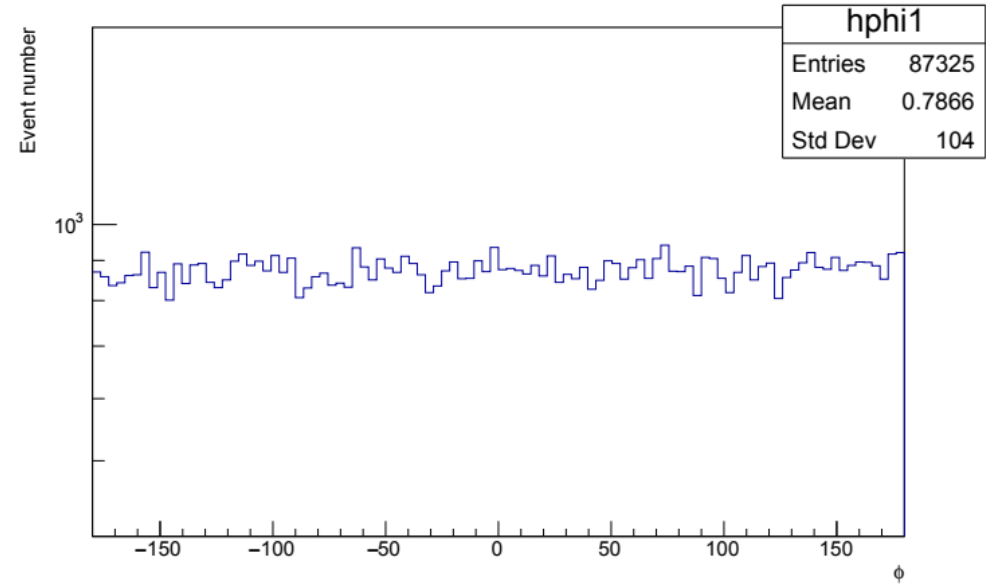


# Plots according to current sample

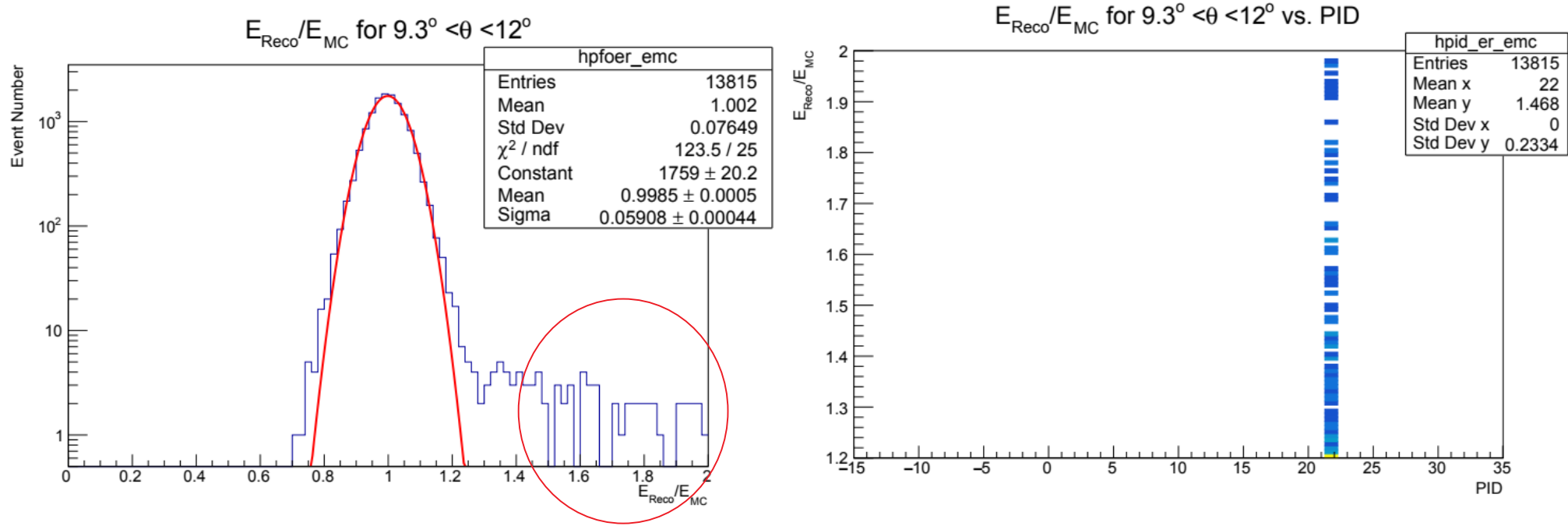
$\phi$  for  $9.3^\circ < \theta < 12$



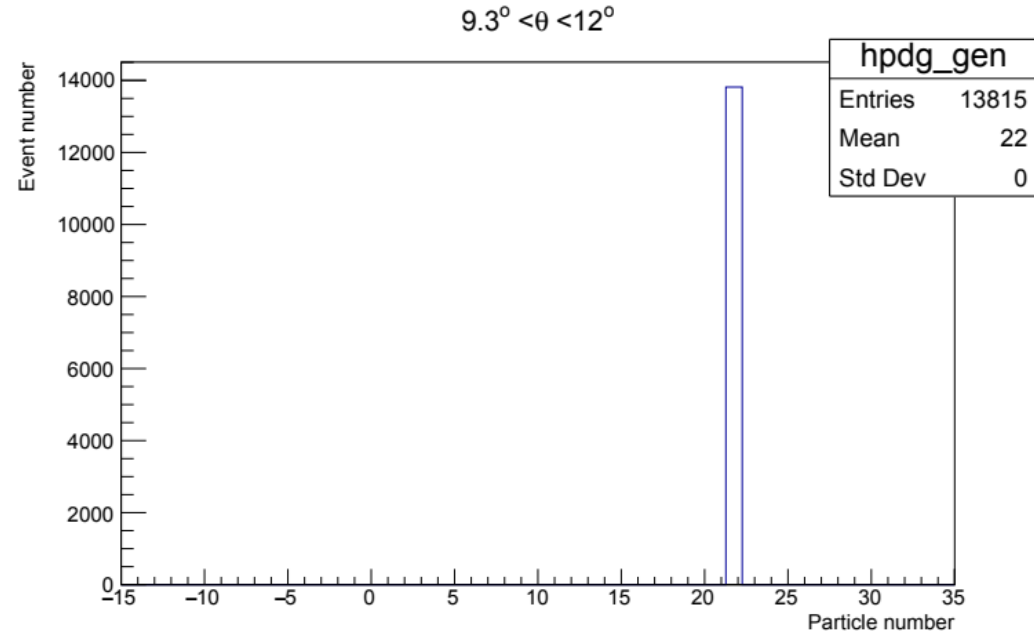
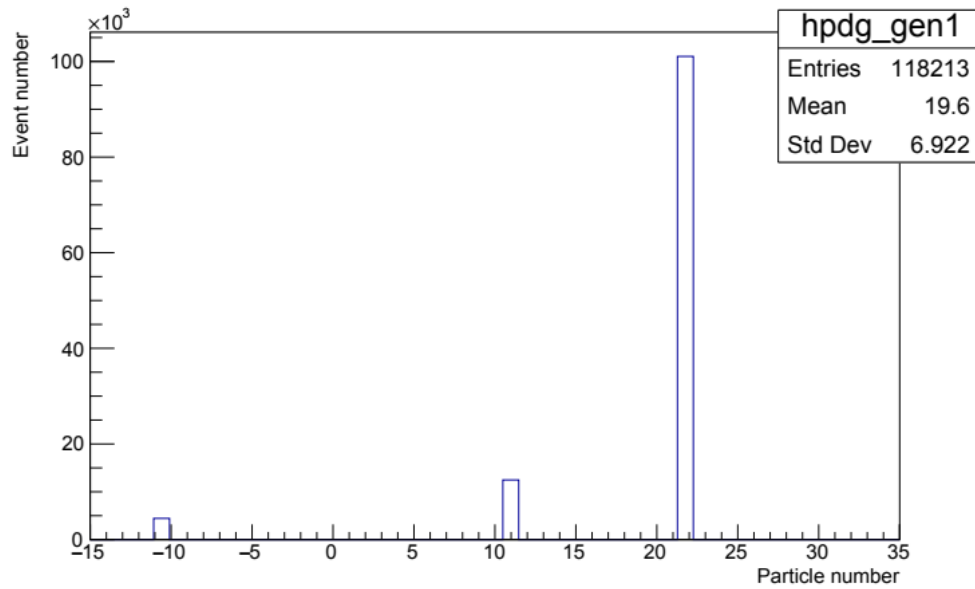
$\phi$



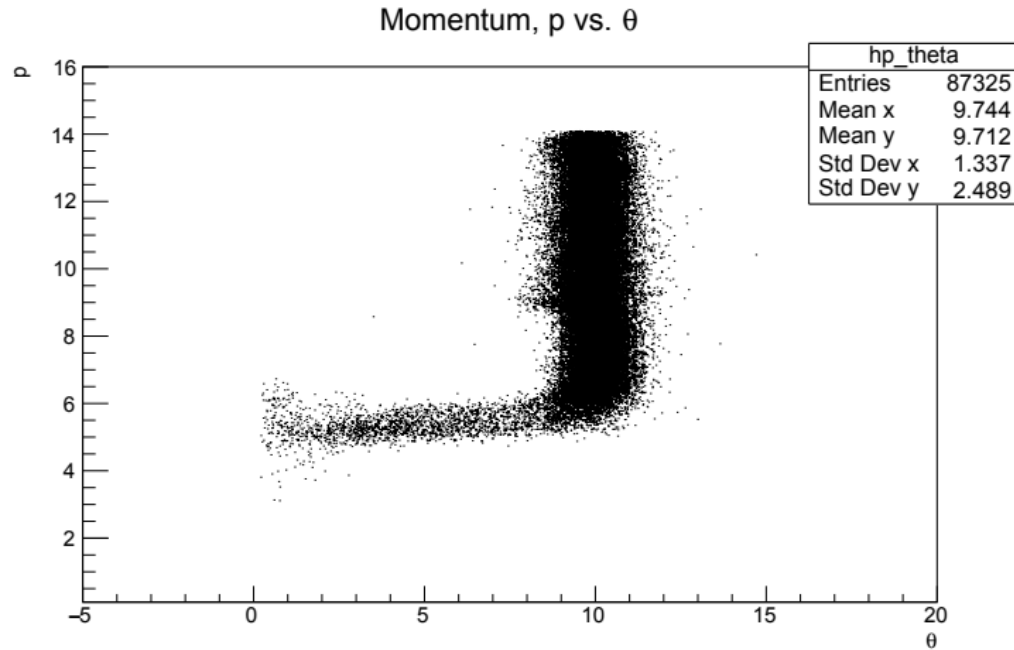
# Verifying photon reconstruction



# Particles involved

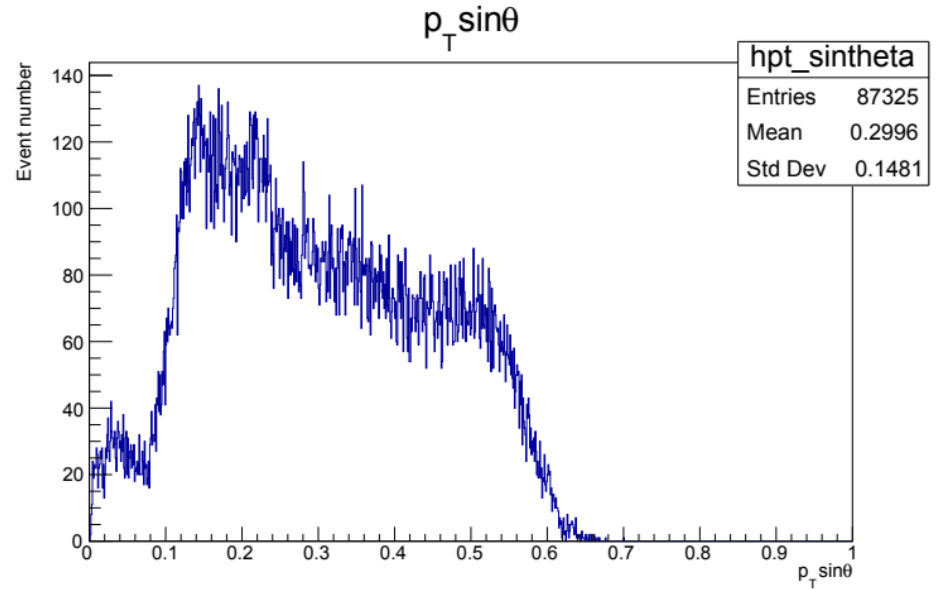
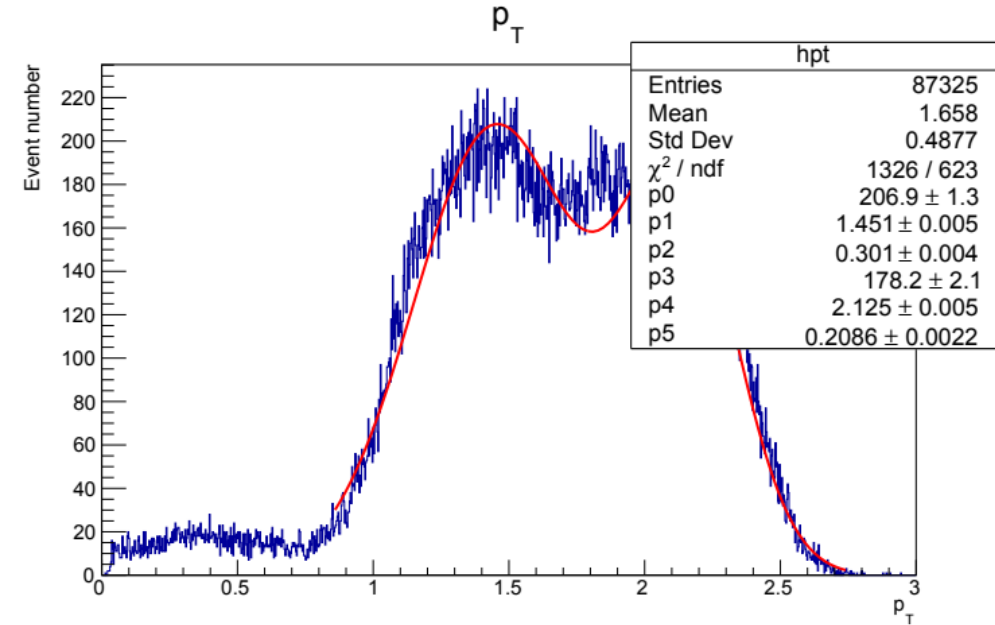


# Direction of the photon with respect to beam



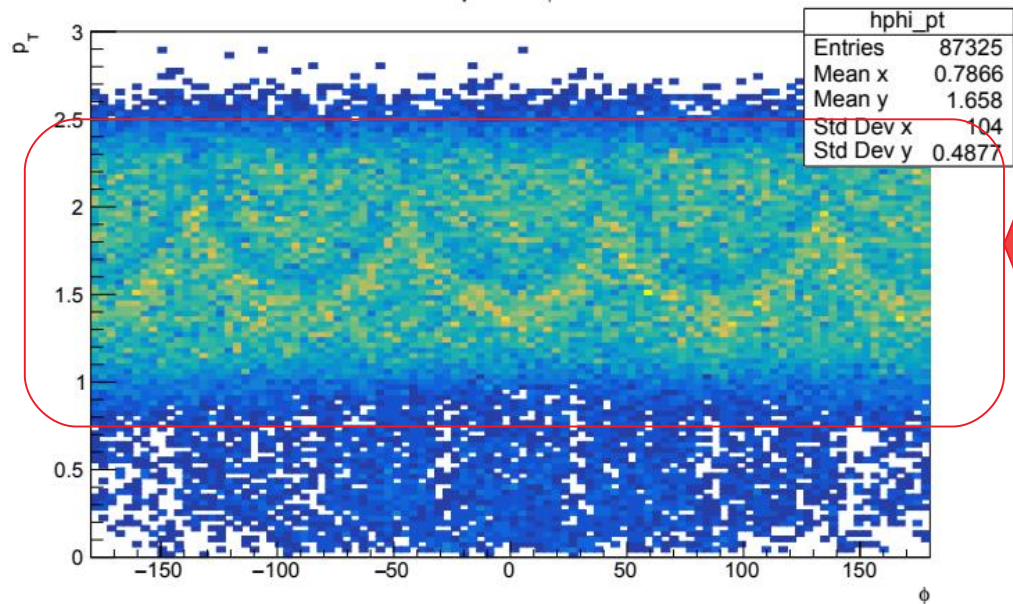


# Transverse momentum

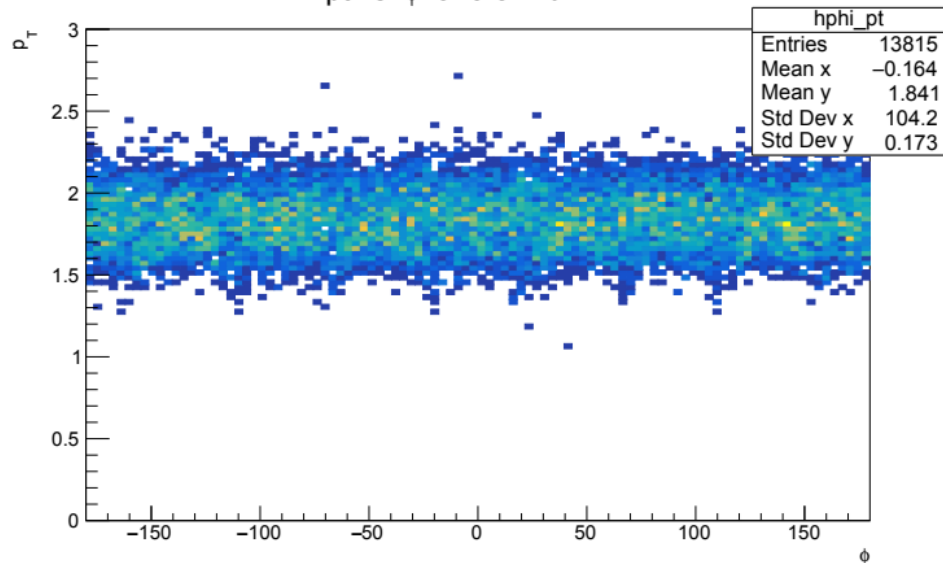


# Transverse momentum-phi correlation

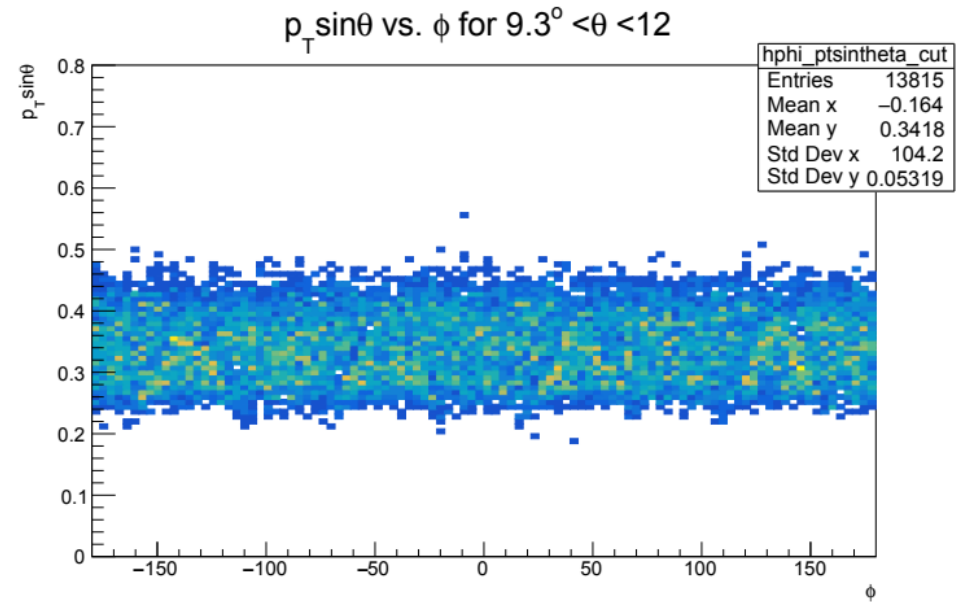
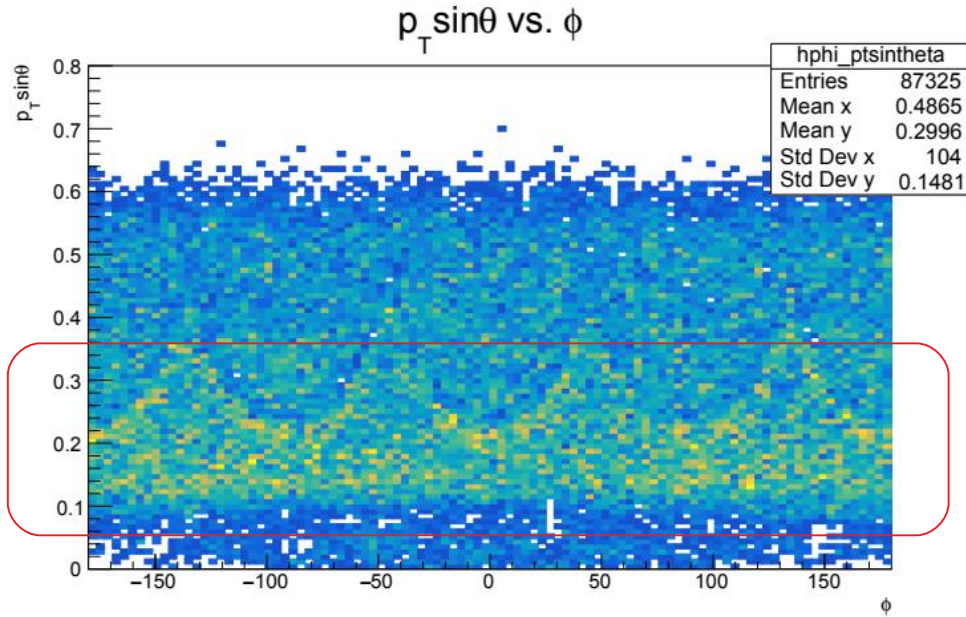
pt vs.  $\phi$



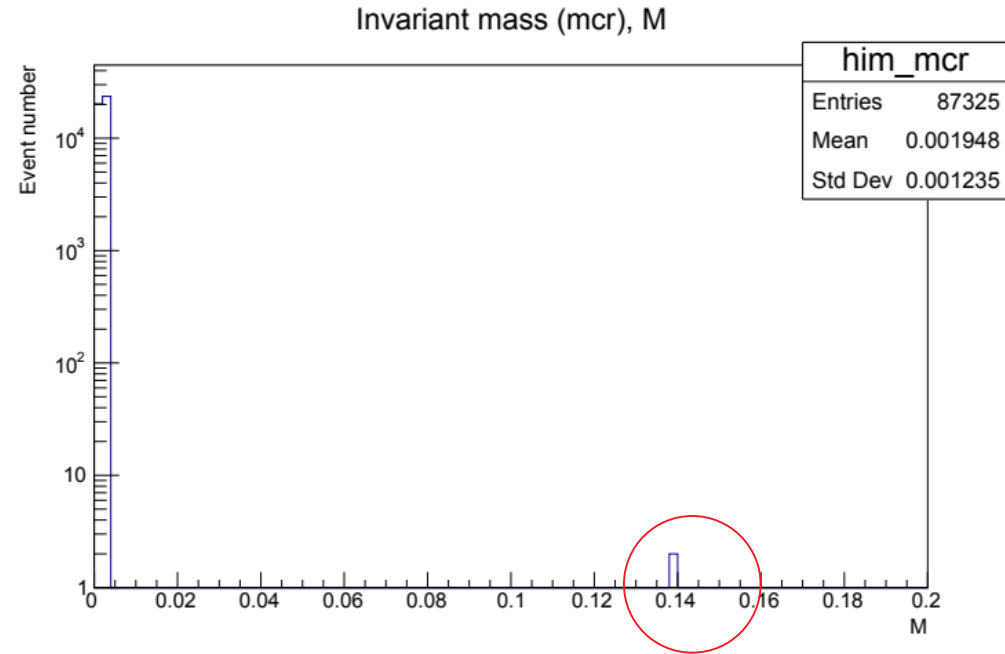
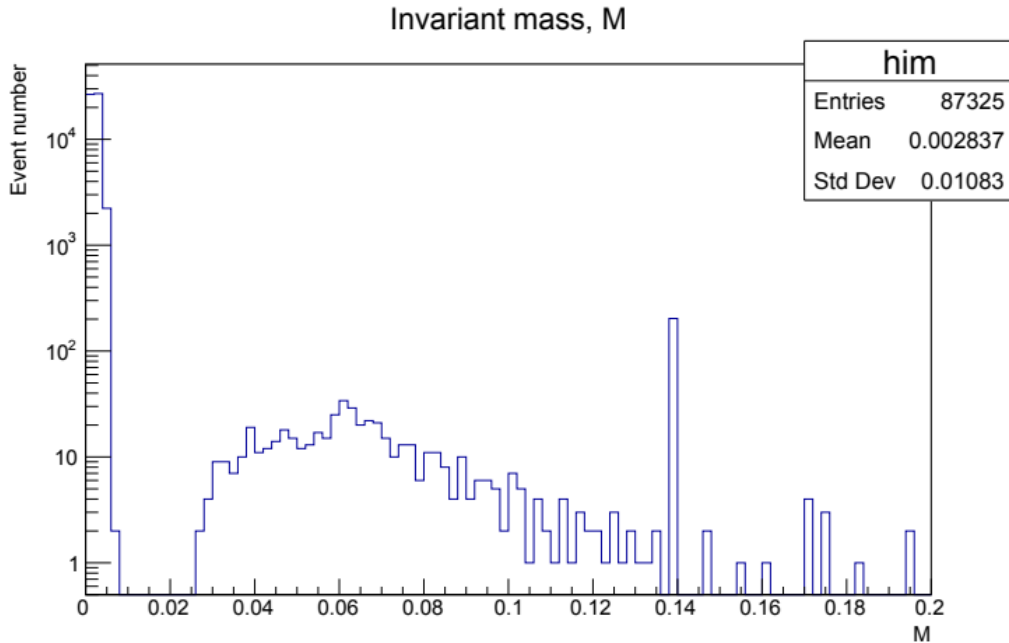
pt vs.  $\phi$  for  $9.3^\circ < \theta < 12$



# Needs explanation



# Problem in the invariant mass?



# Future tasks

- Create relevant plots for the samples at 500 GeV