




# Update on KaonLT Analysis

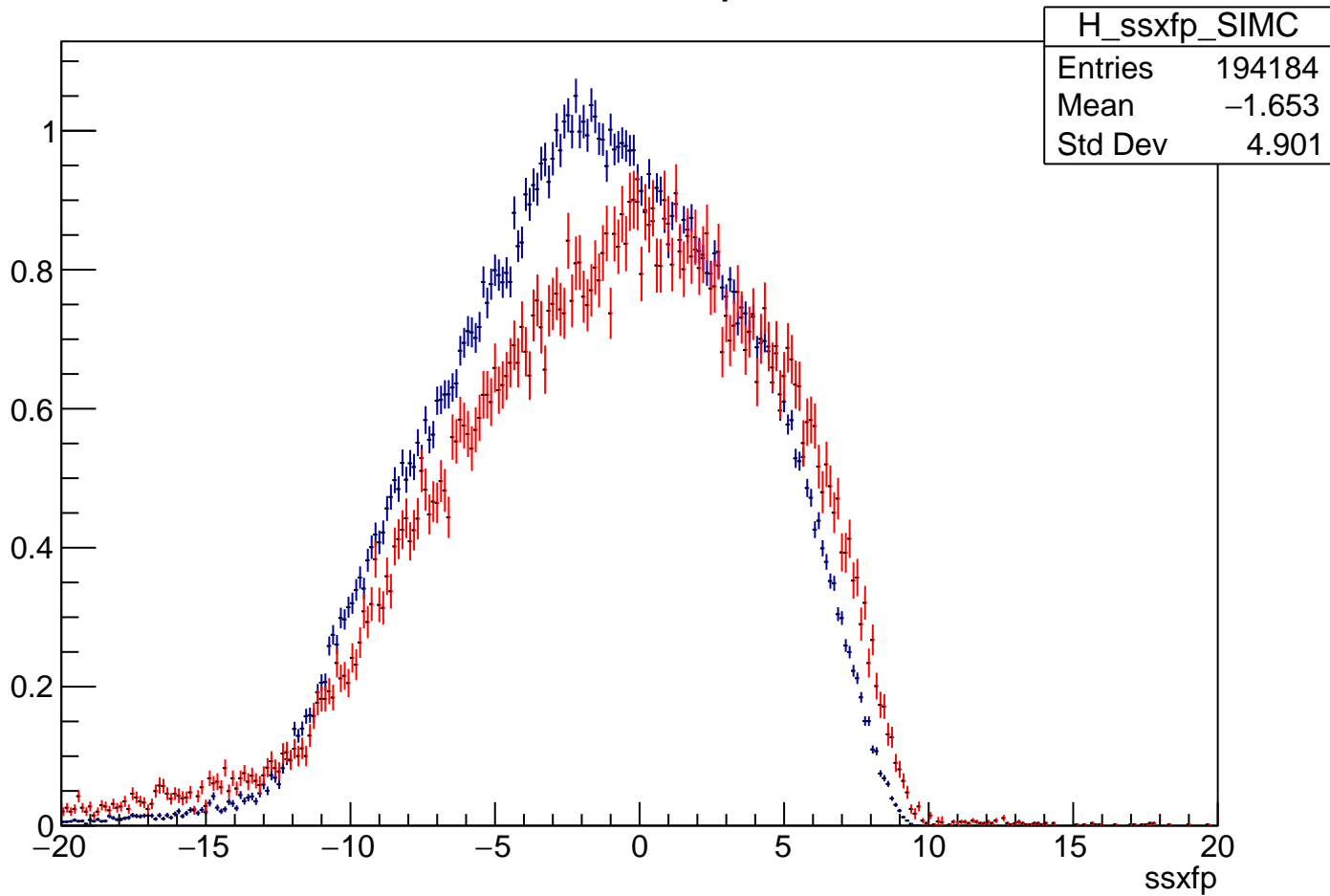
Ali Usman  
May 31, 2022



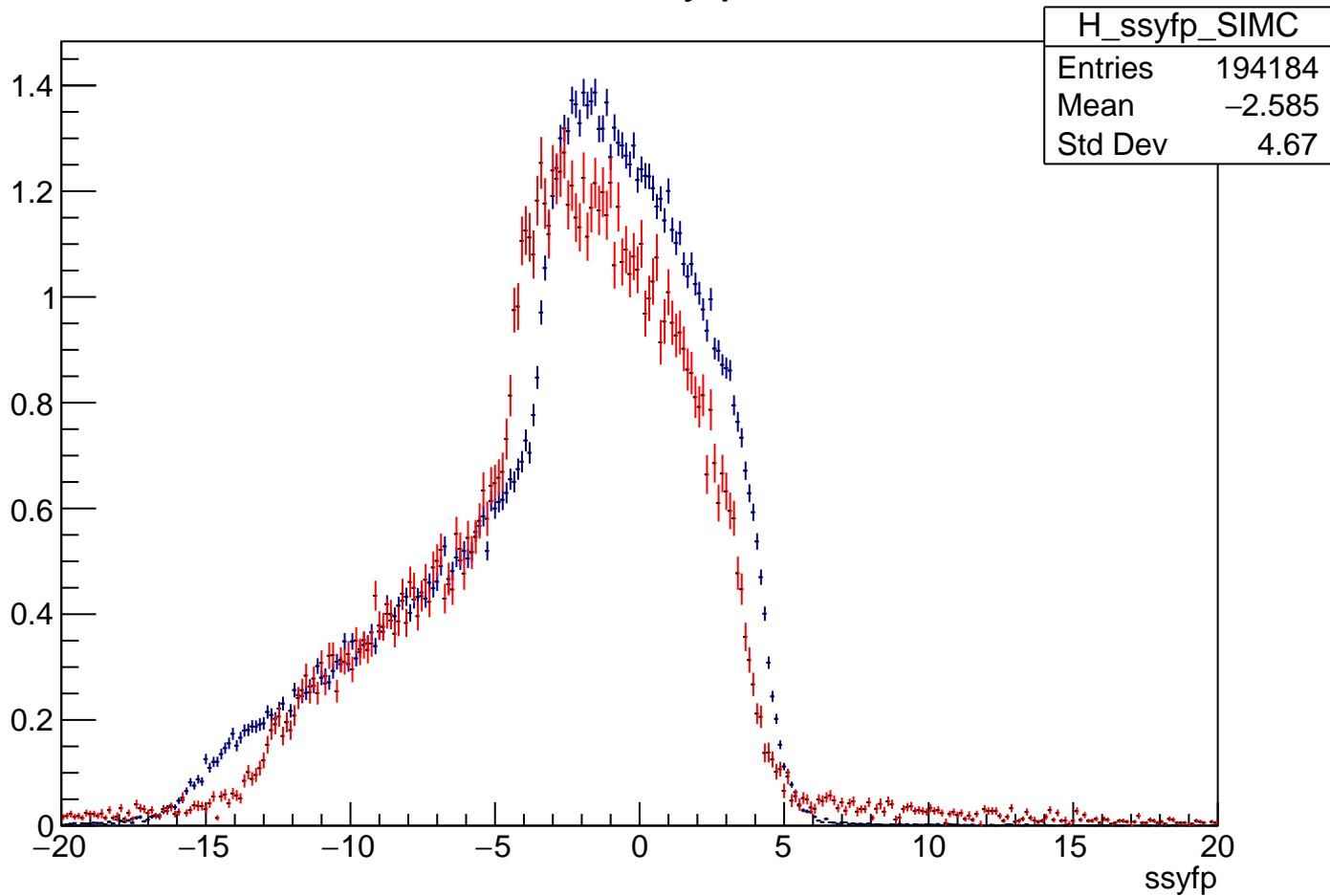
# HEEP Coin Analysis

- Looking at HEEP COIN data/simc comparison for following settings.
  - Beam Energy = 8.20883 GeV
  - SHMS P = 4.3710 GeV
  - HMS P = 4.6720 GeV
  - SHMS Angle = 25.775
  - HMS Angle = 24.000
- Red = Data & Blue = SIMC
- Charge normalization (data + dummy), dummy target correction and simc weights implemented.

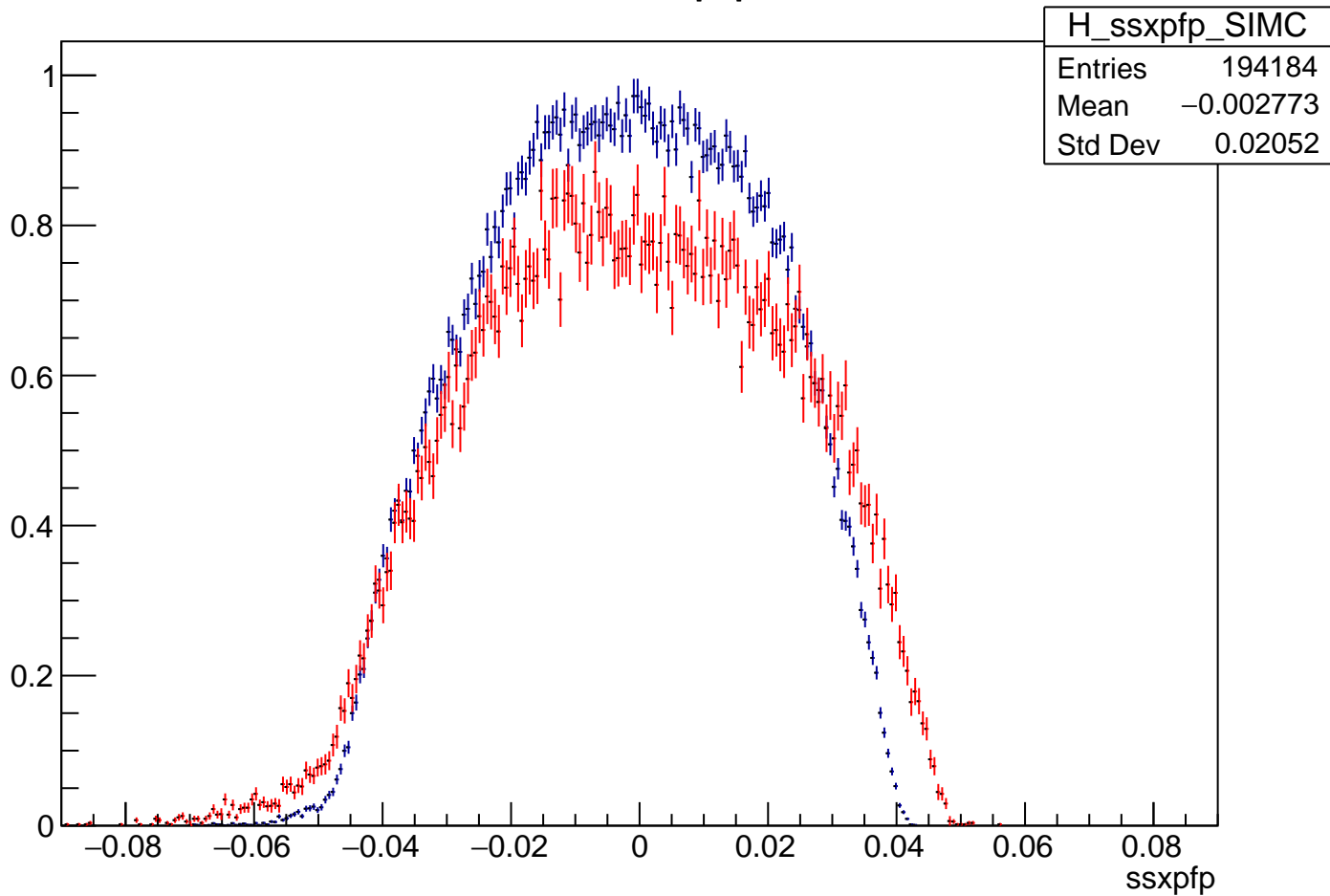
# SHMS xfp



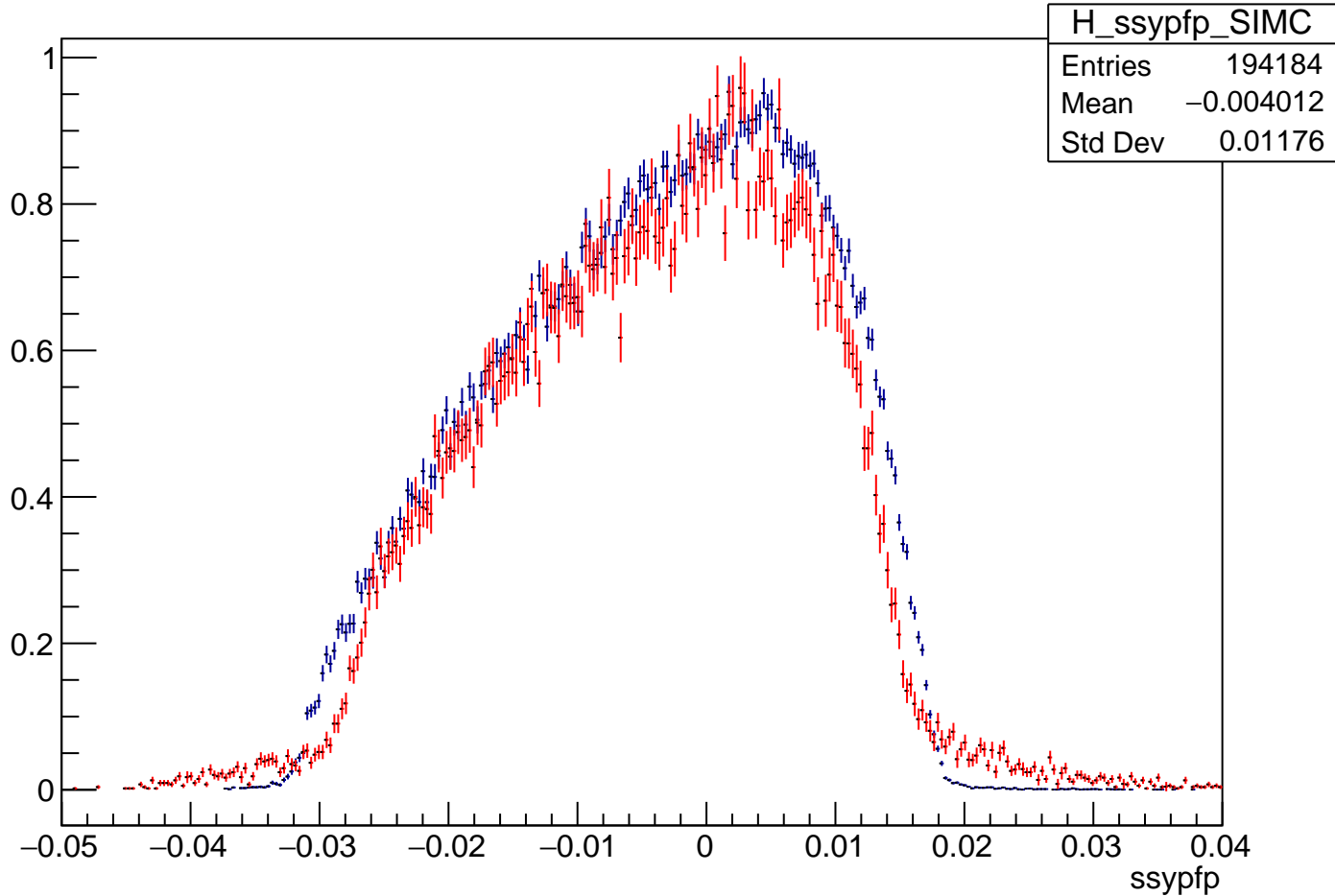
# SHMS yfp



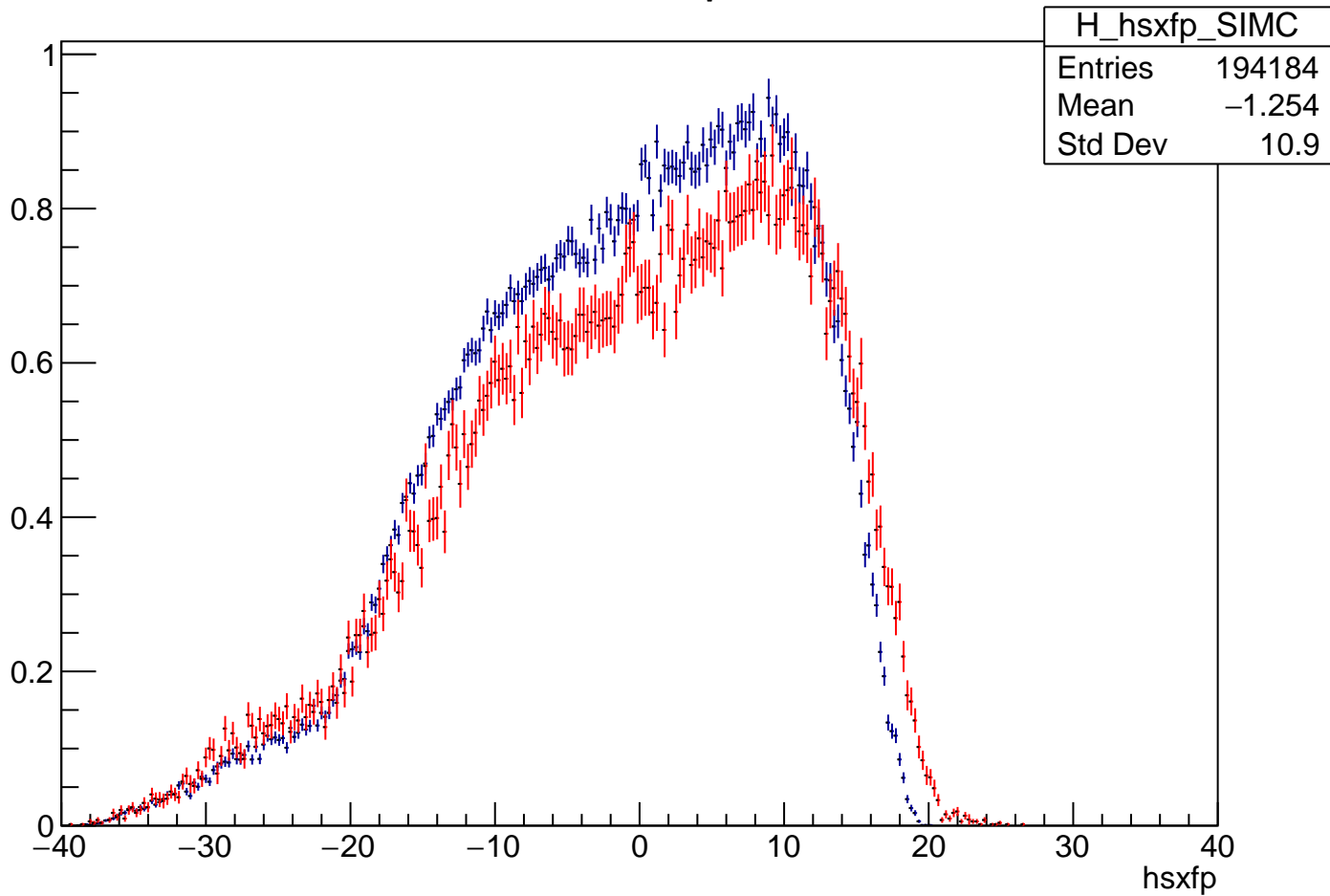
# SHMS xpfp



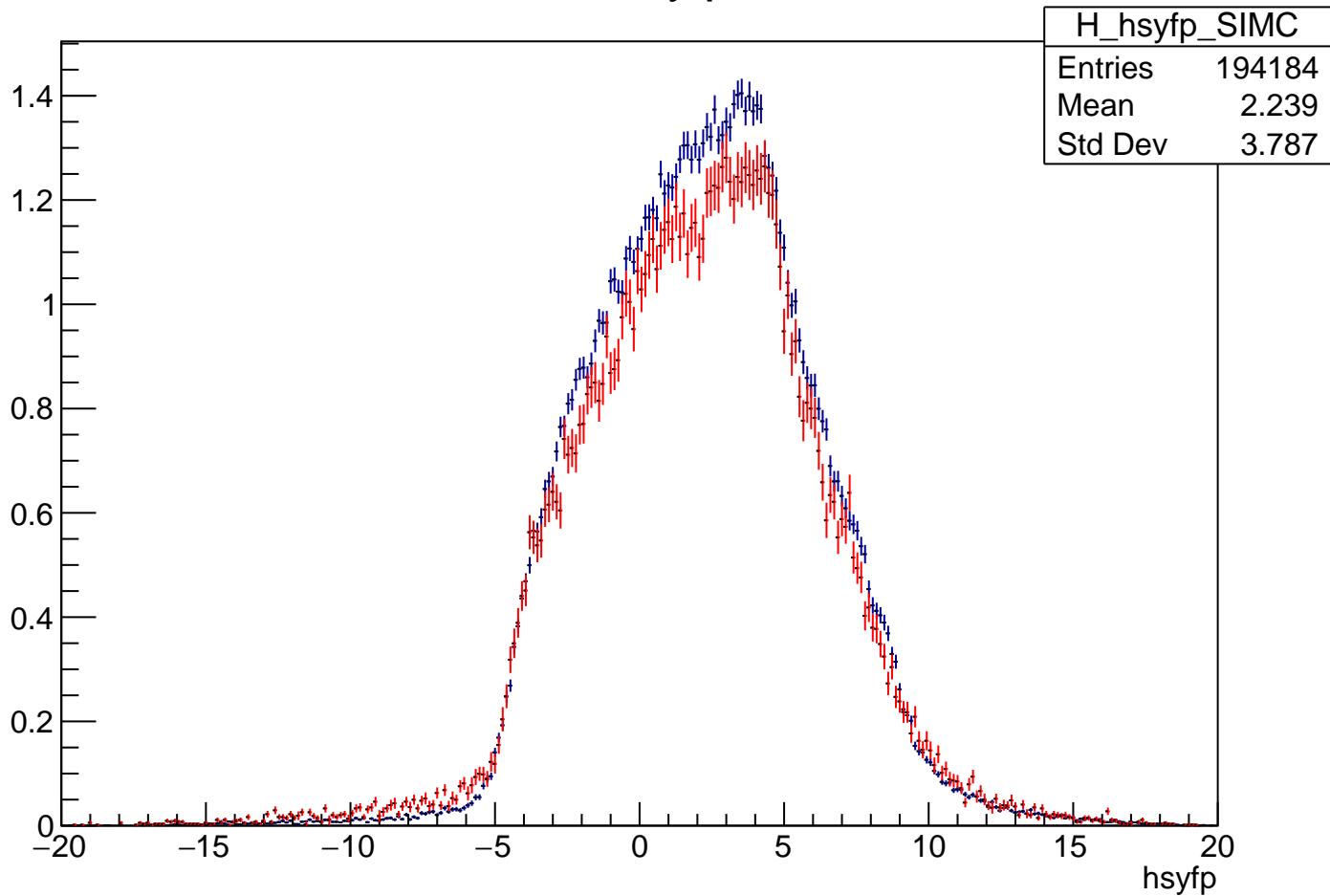
# SHMS ypfp



# HMS xfp

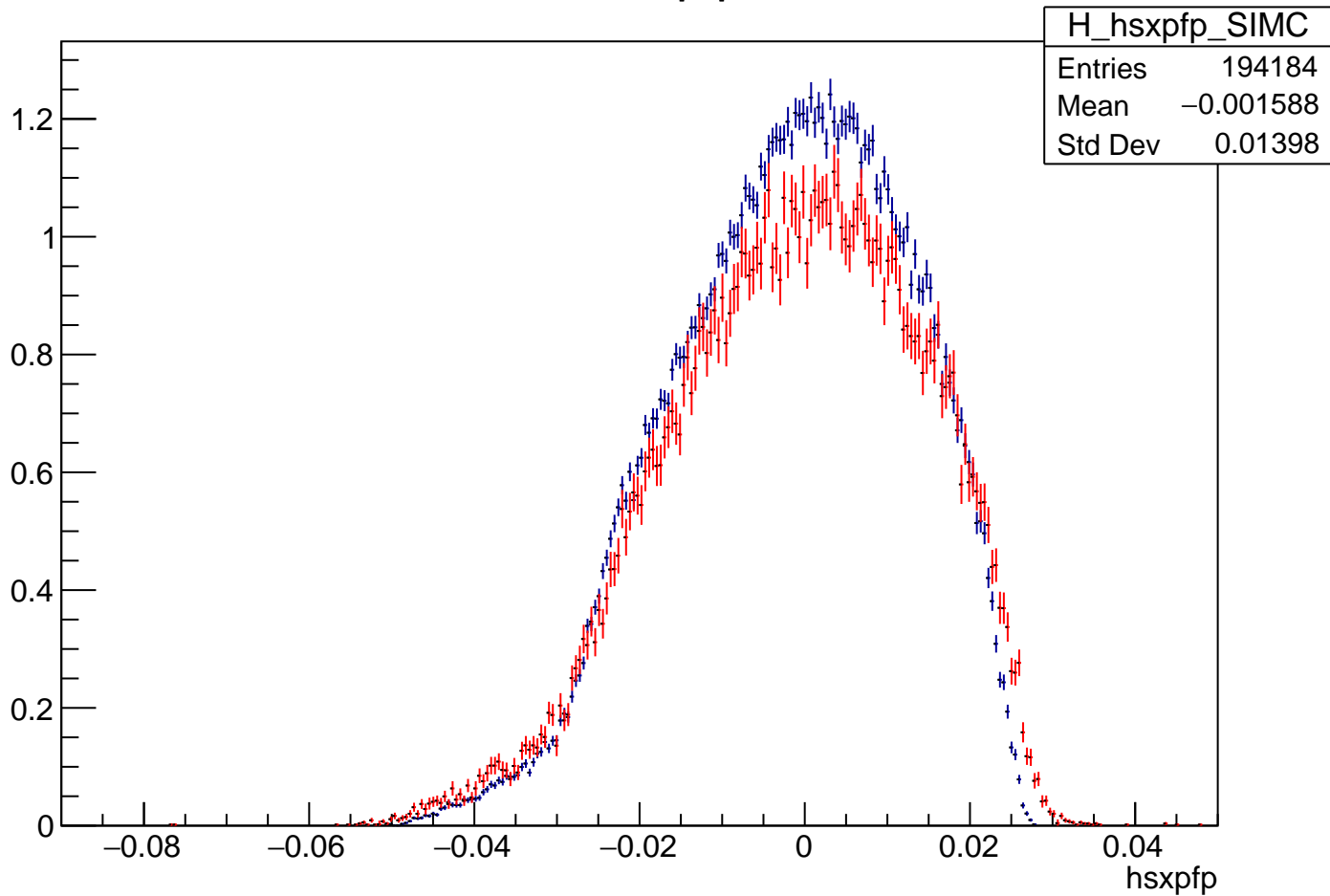


# HMS yfp

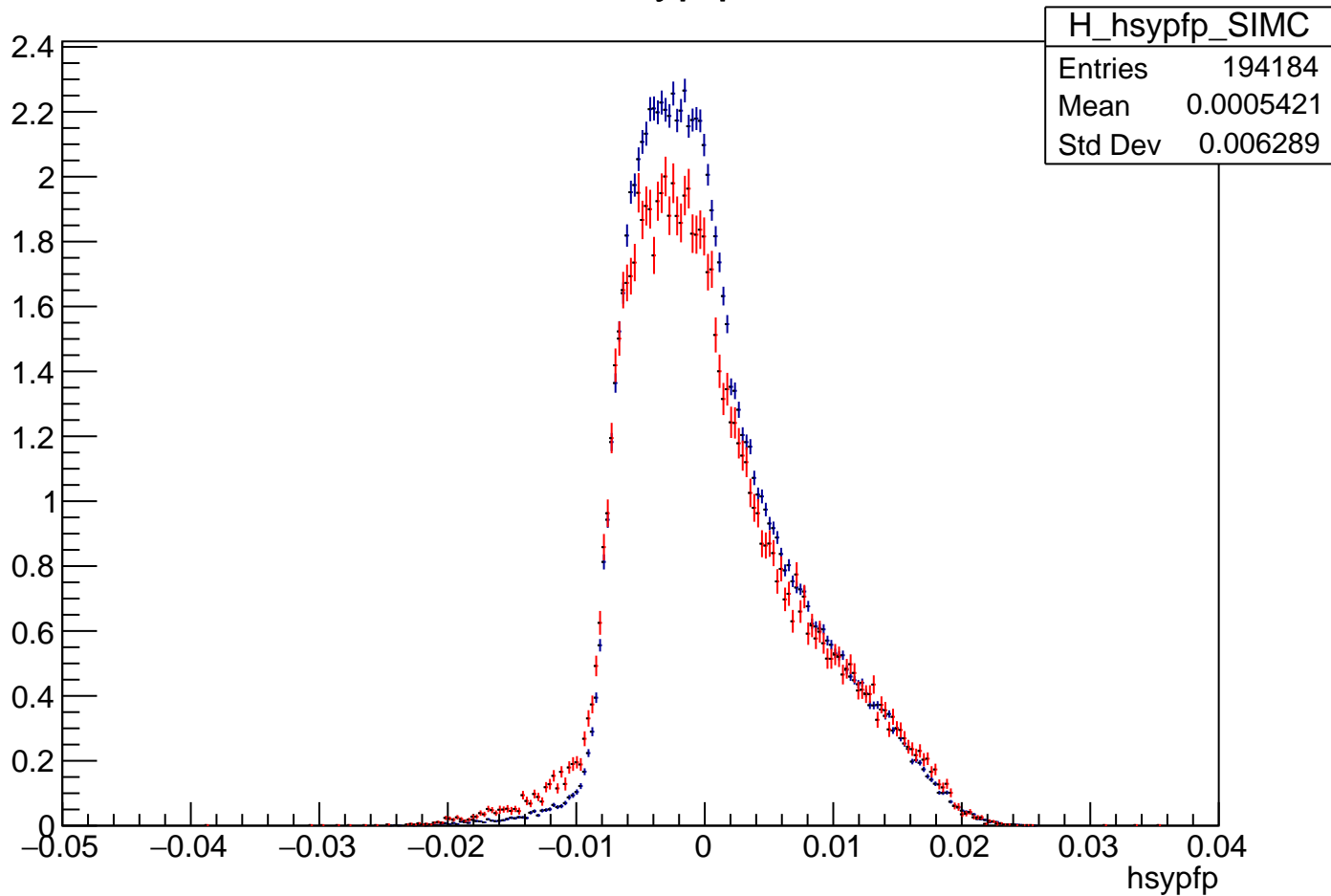




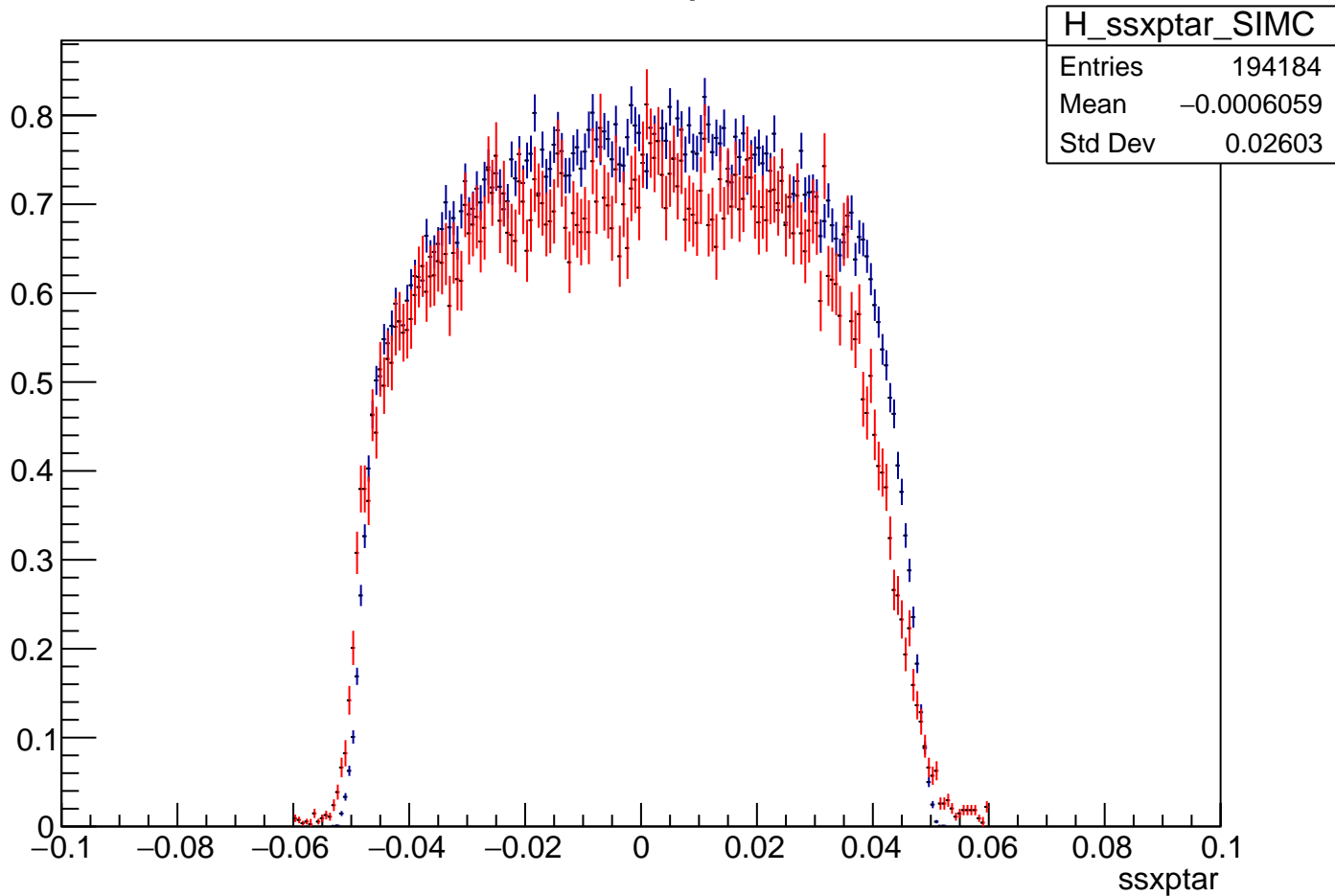
# HMS xfp



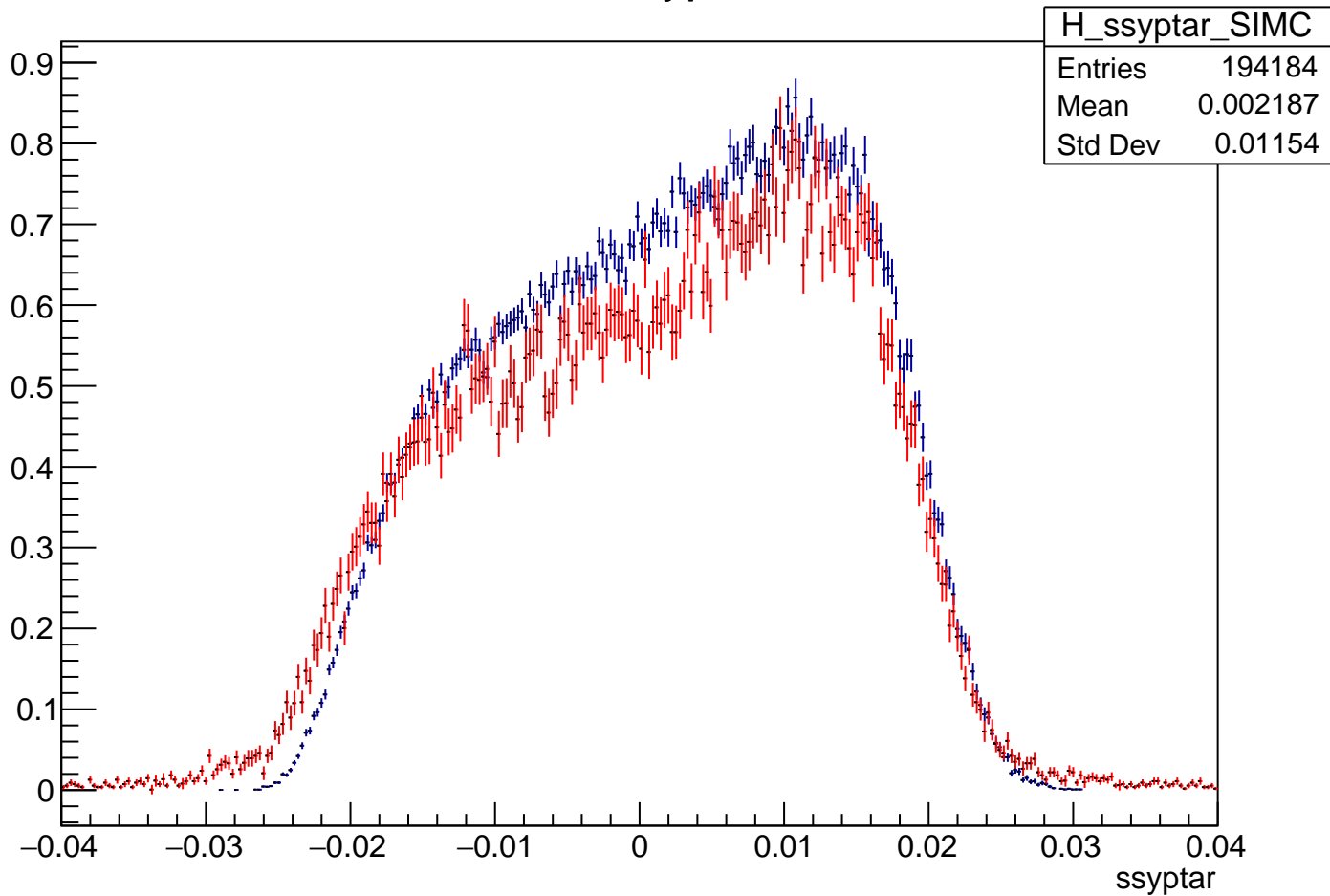
# HMS yfp



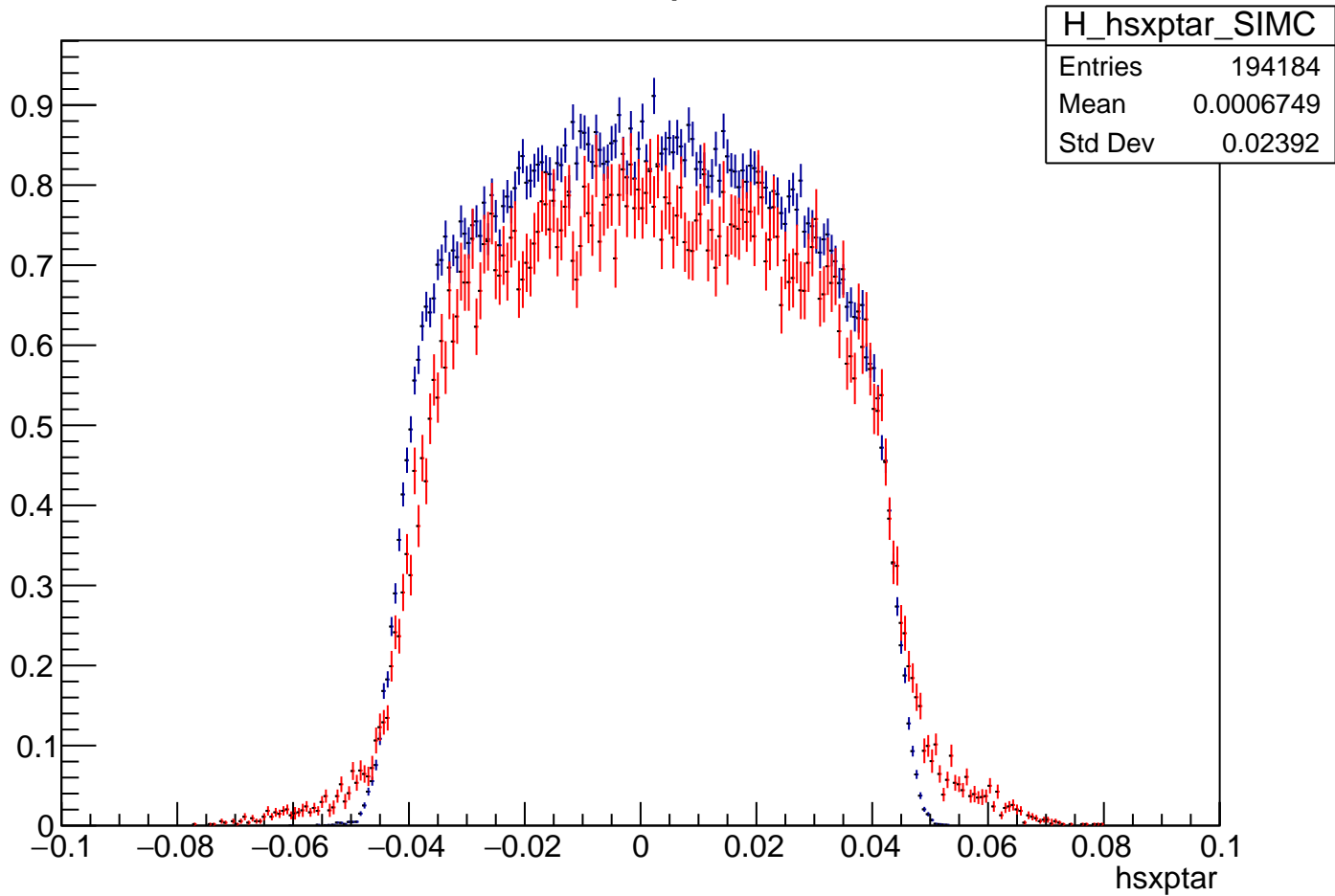
# SHMS xptar



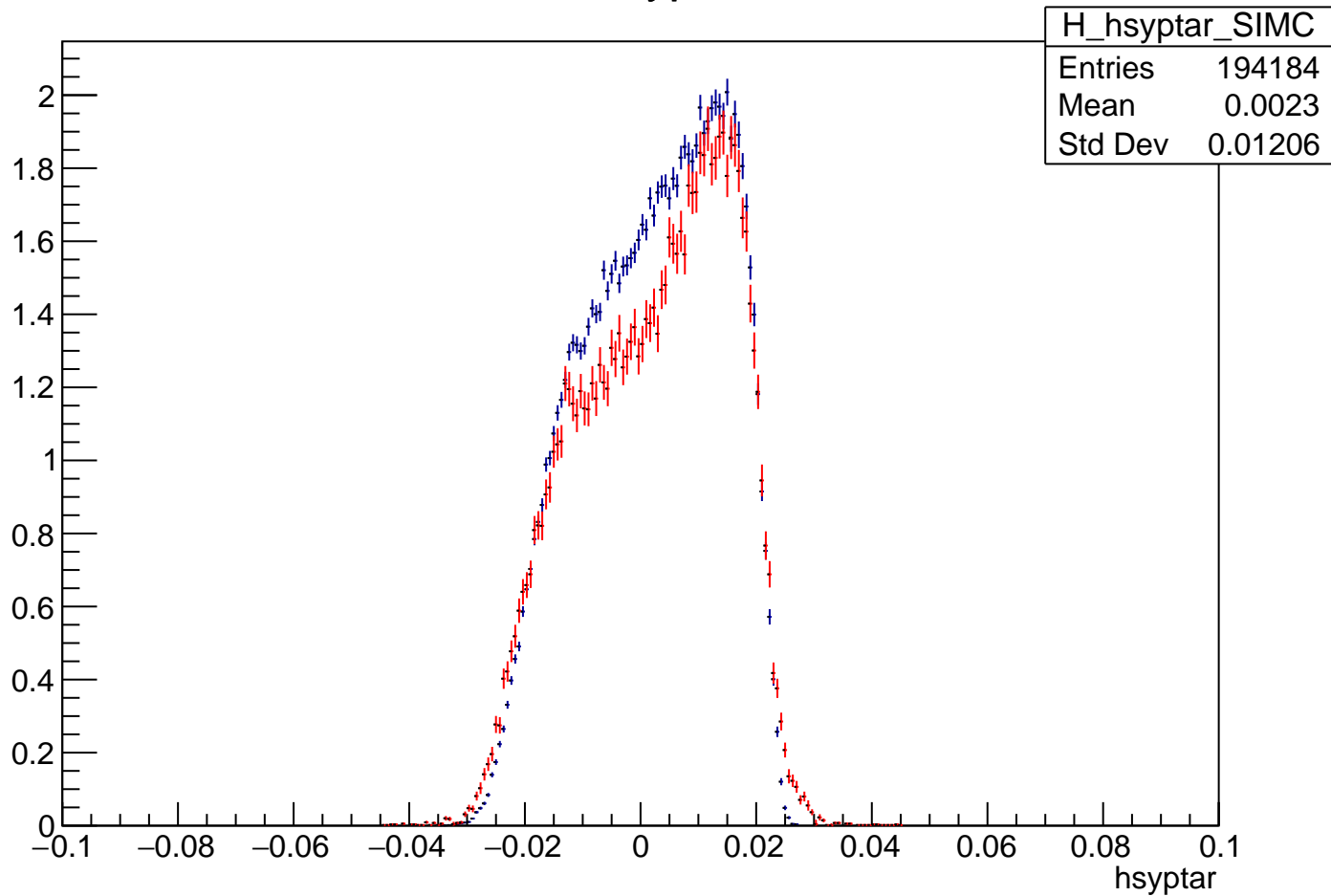
# SHMS yptar



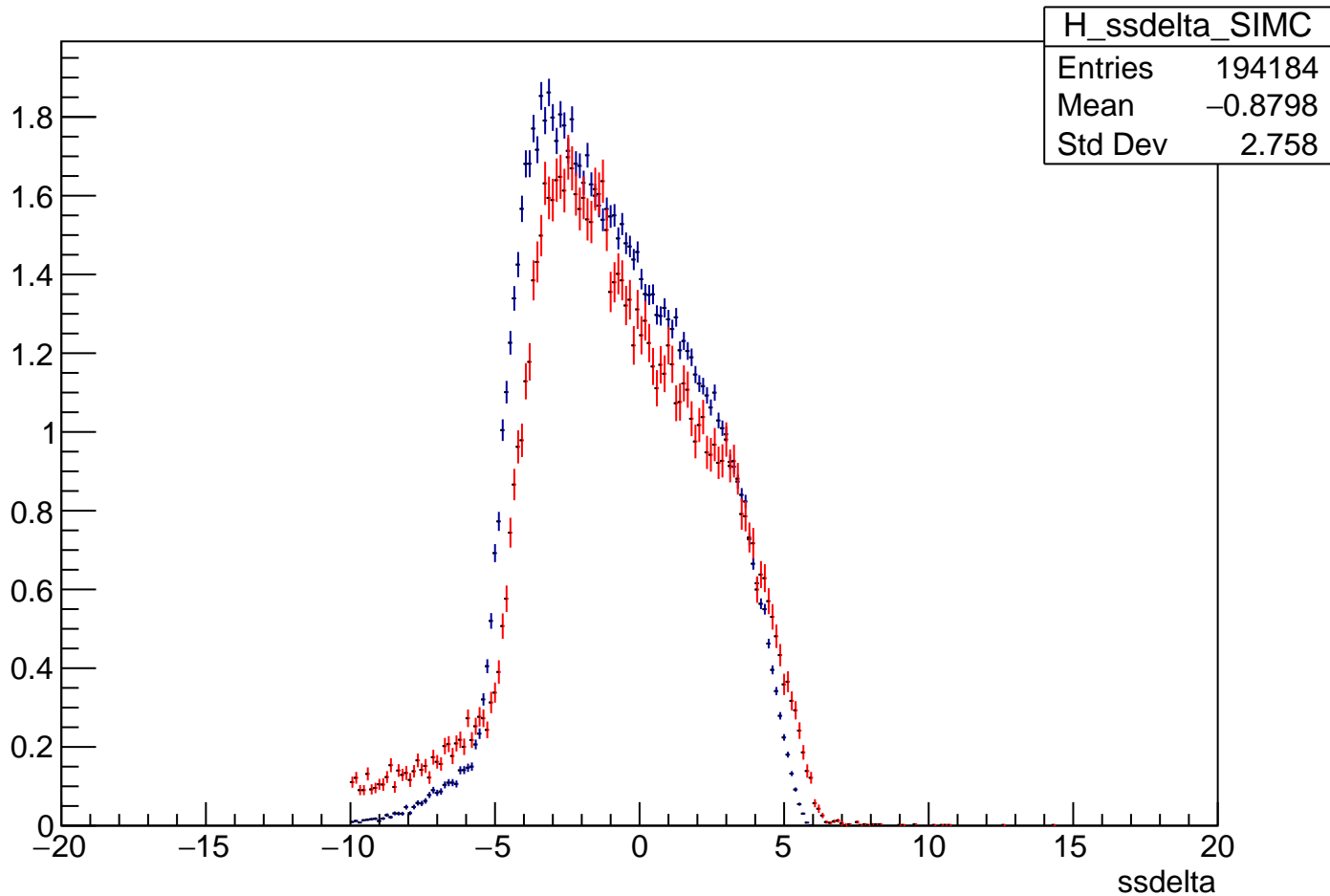
# HMS xptar



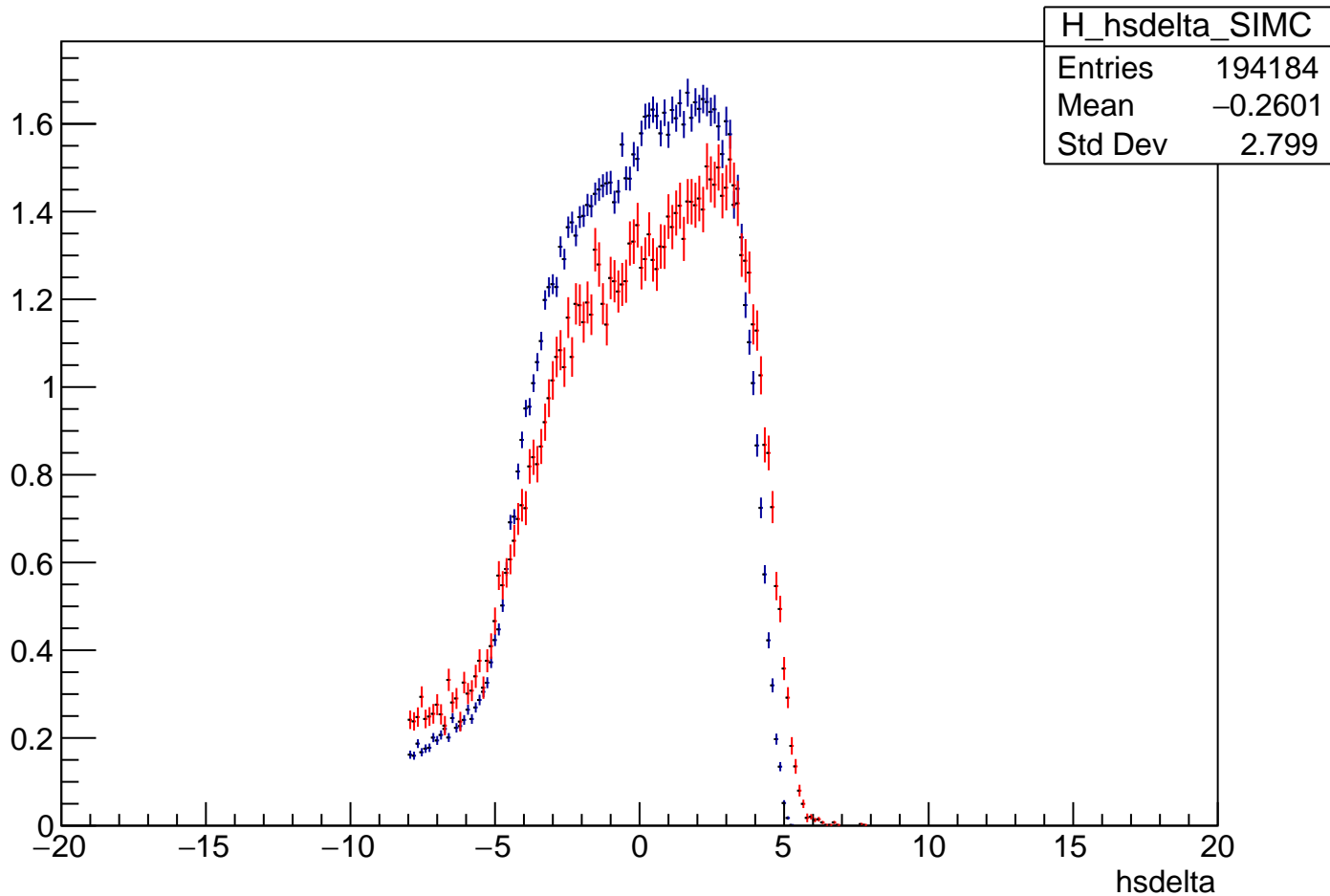
# HMS yptar



# SHMS delta

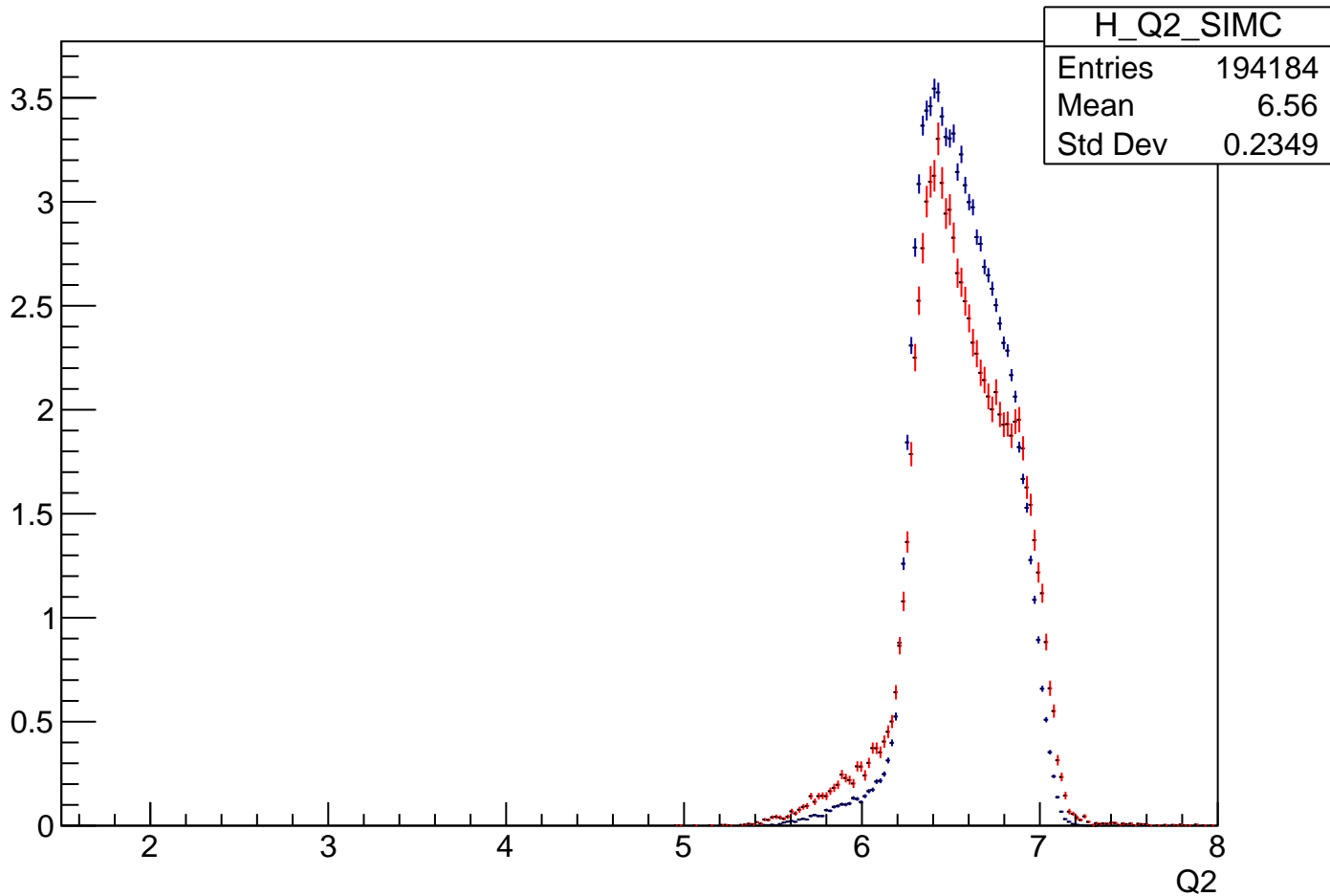


# HMS Delta

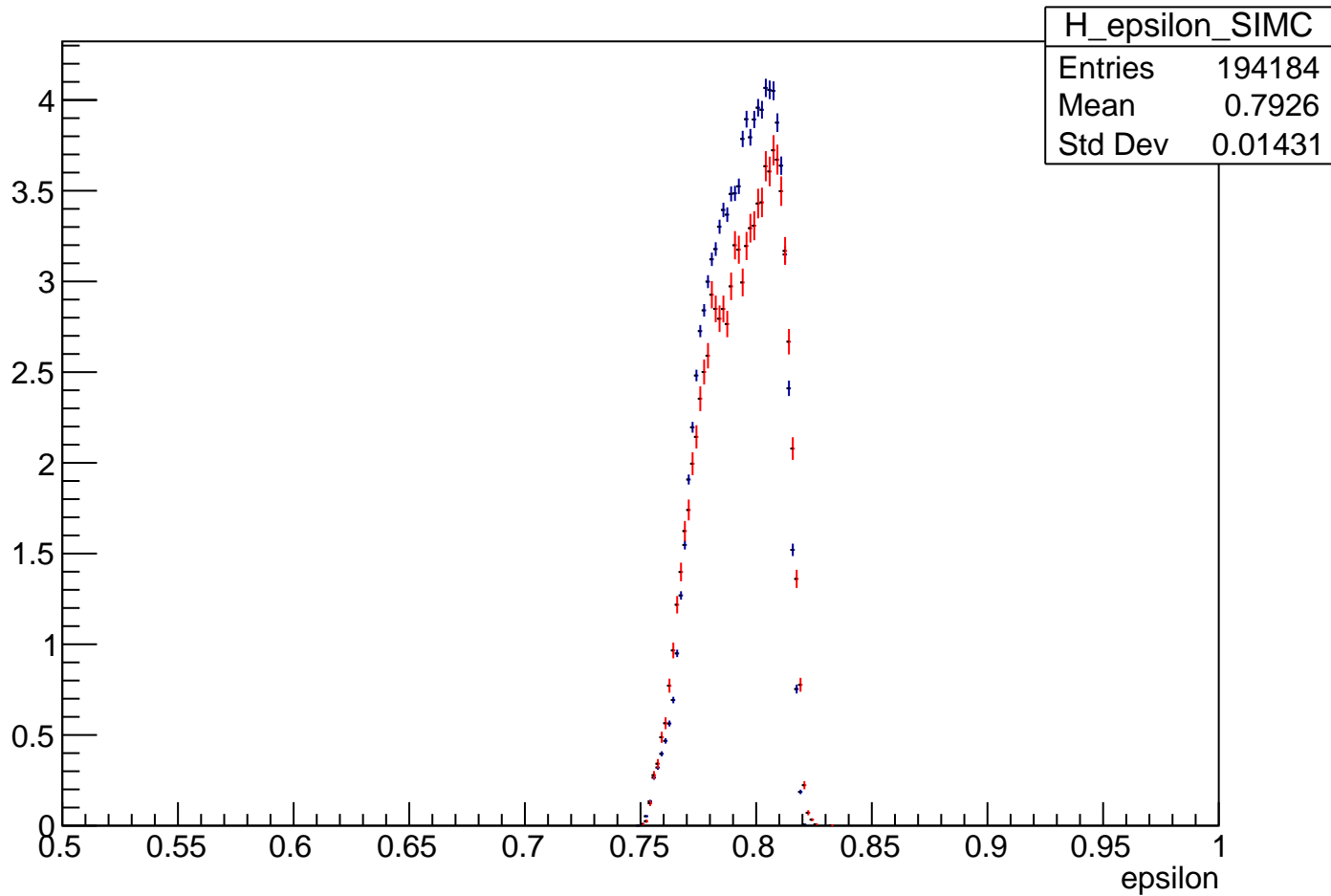




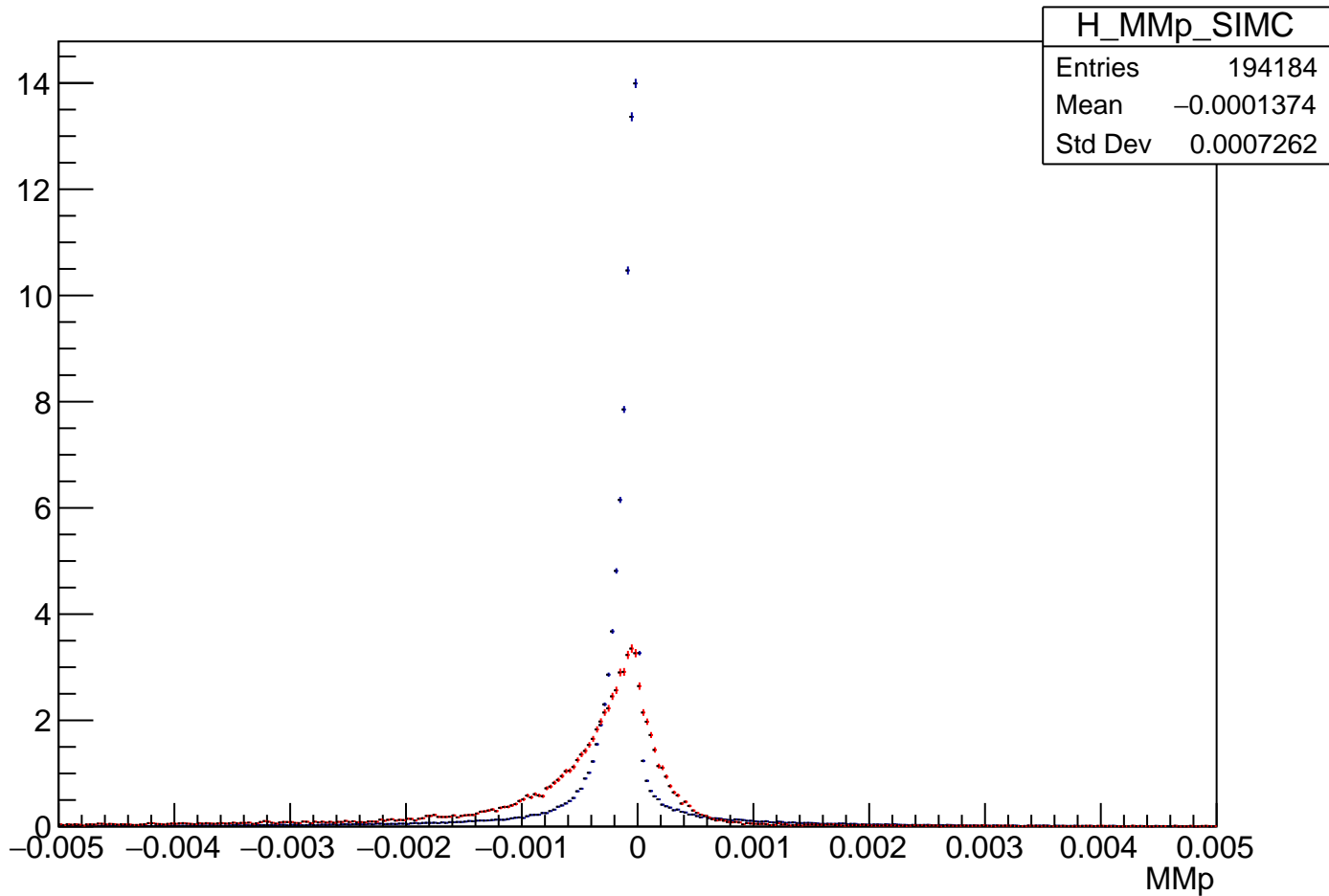
# Q2



# epsilon

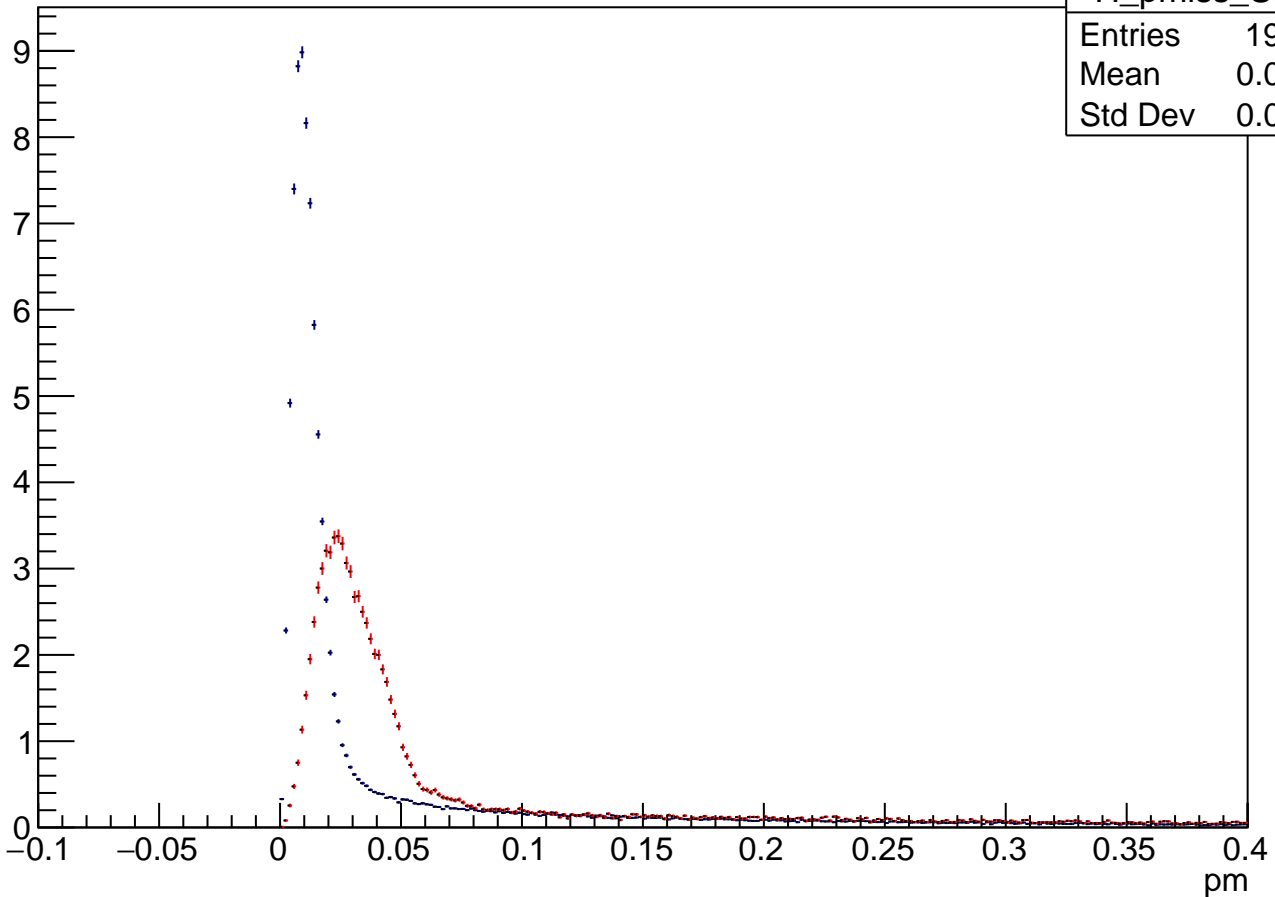


# MMp

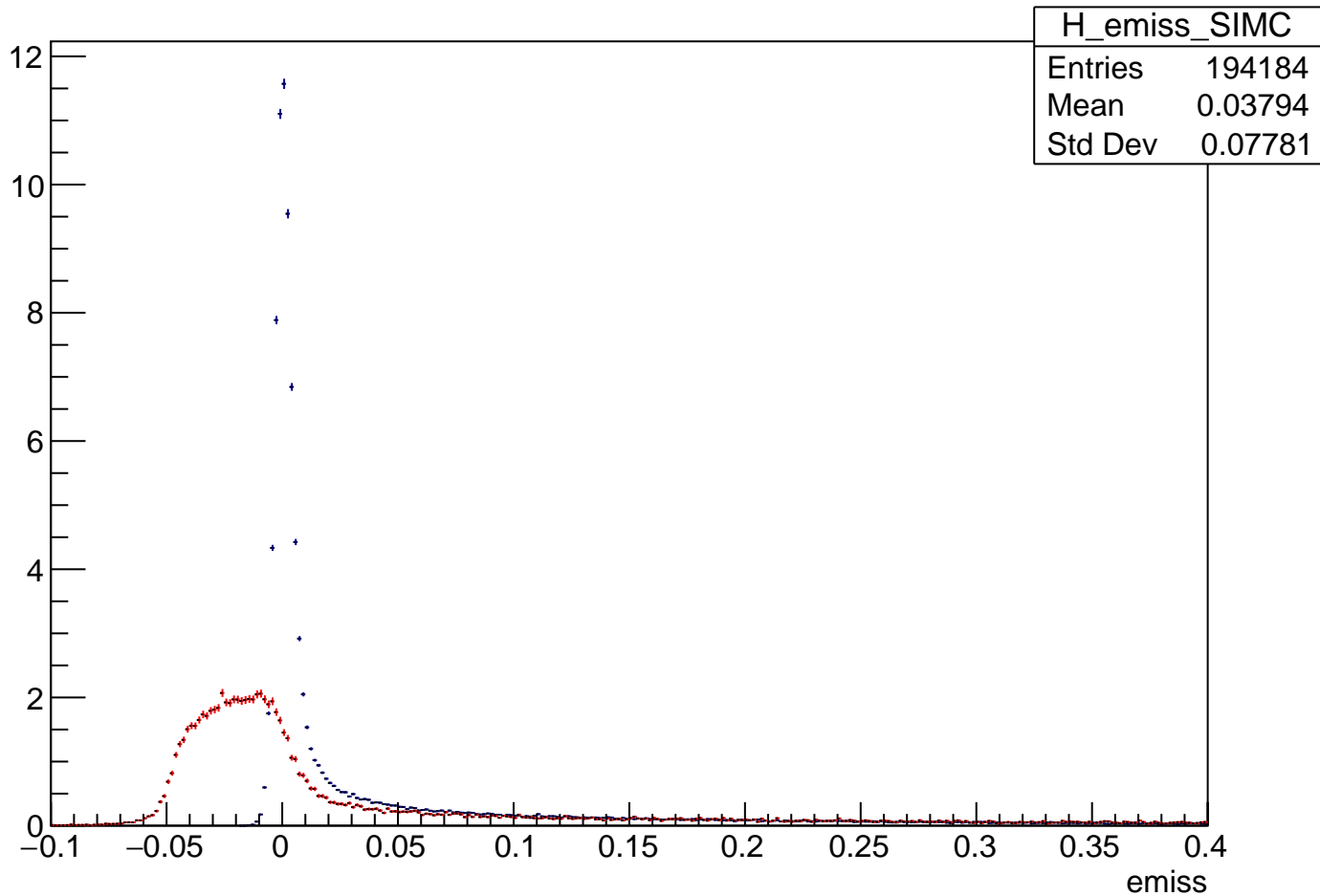


# pmiss

H_pmiss_SIMC	
Entries	194184
Mean	0.04462
Std Dev	0.07499



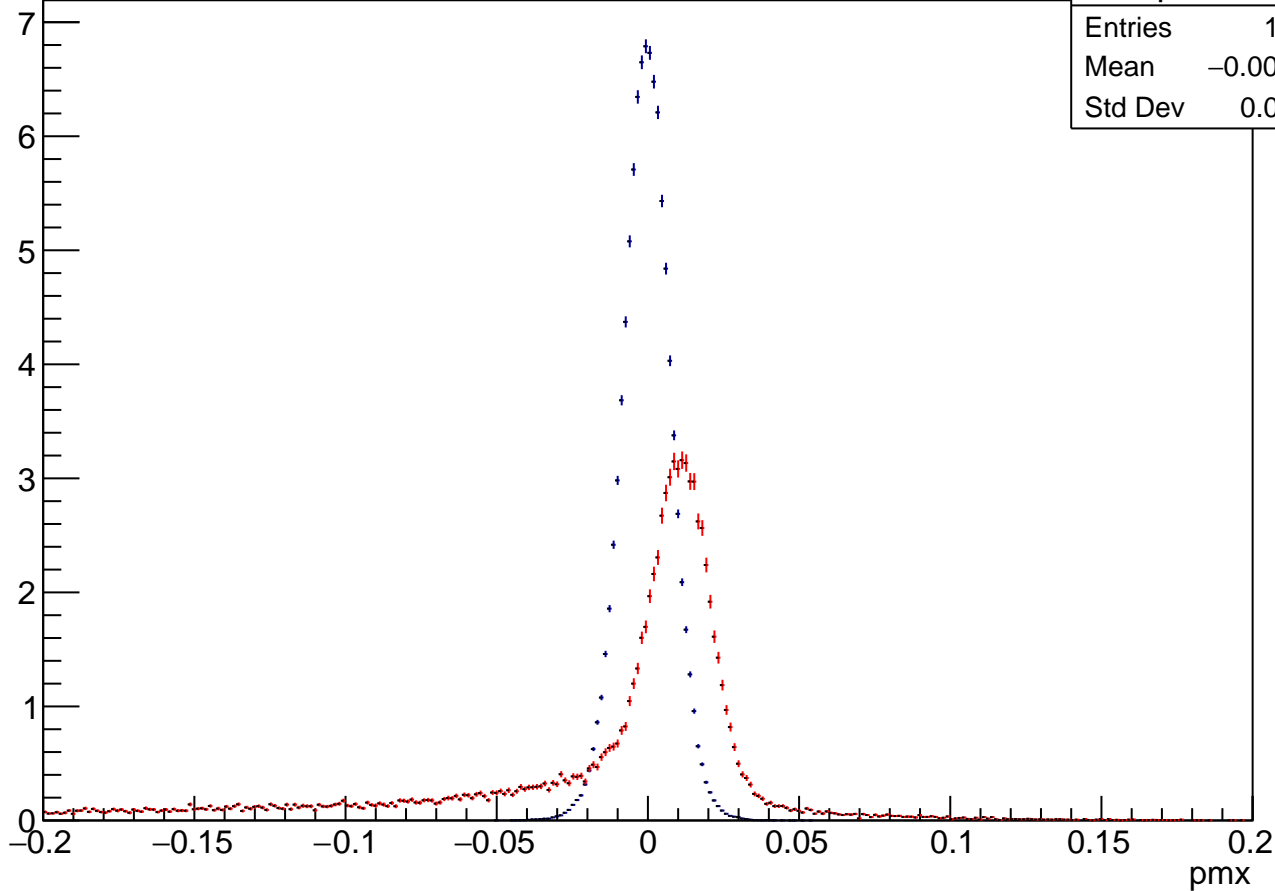
# emiss



pmx

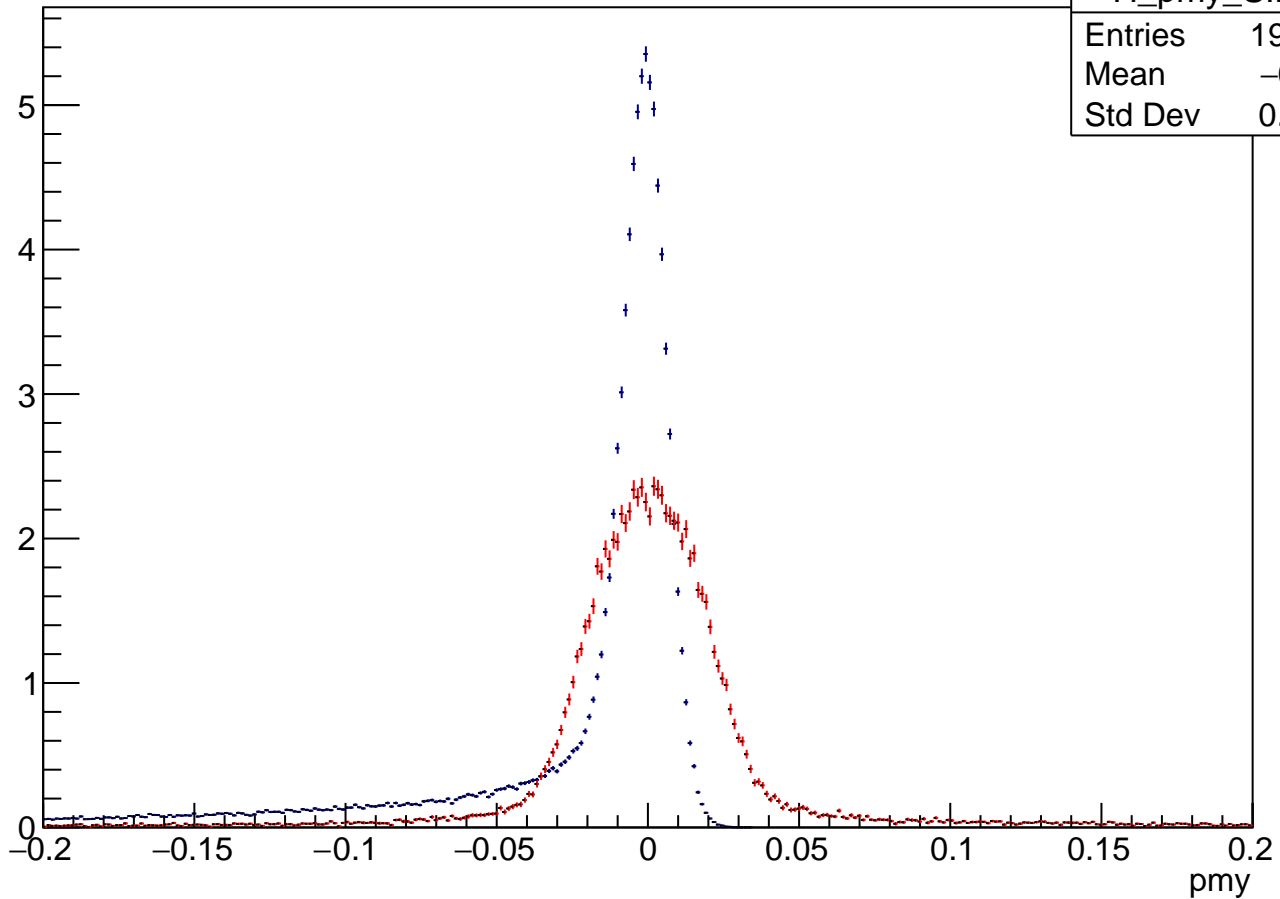
H\_pmx\_SIMC

Entries	194184
Mean	-0.0003904
Std Dev	0.008248



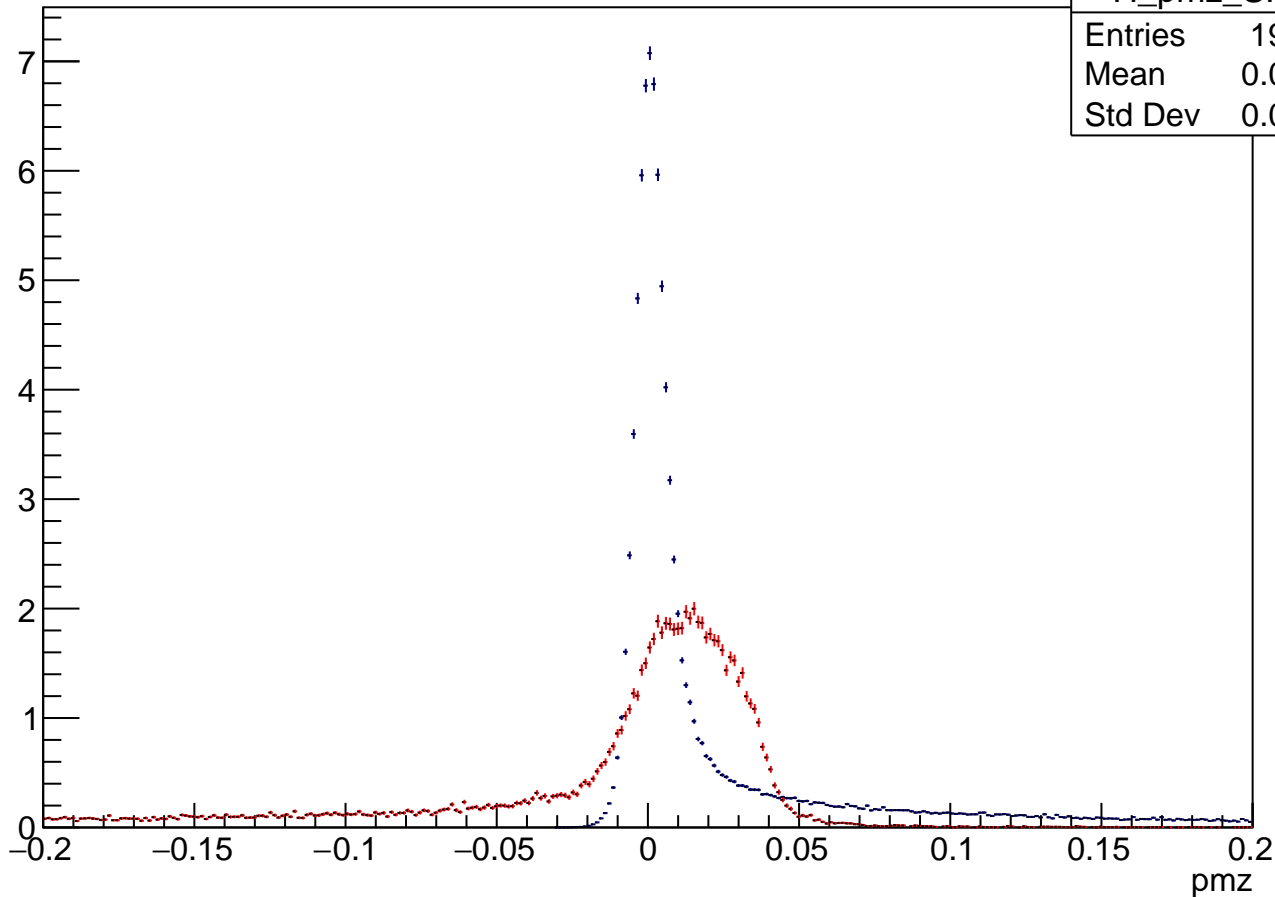
pmy

H_pmy_SIMC	
Entries	194184
Mean	-0.019
Std Dev	0.0404



pmz

H_pmz_SIMC	
Entries	194184
Mean	0.02006
Std Dev	0.04084





W

H_W_SIMC	
Entries	194184
Mean	0.9794
Std Dev	0.0916

