HeePCoin Setting

Beam Energy = 9.177

HMS_p = 3.738

HMS_theta = 31.645

SHMS_p = 6.265

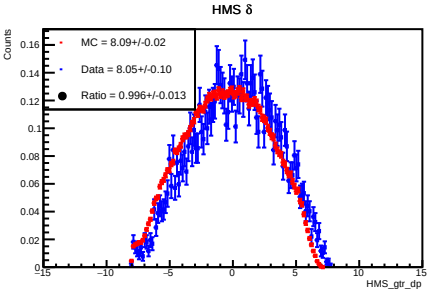
SHMS_theta = 18.125

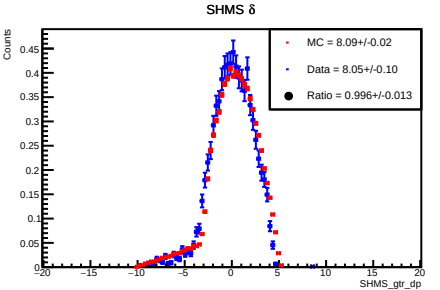
Red = SIMC

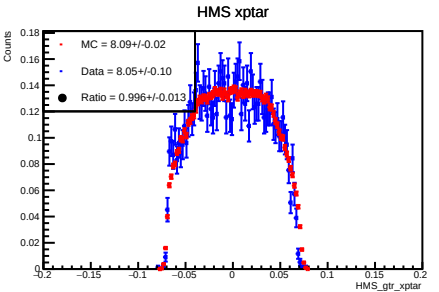
Blue = DATA

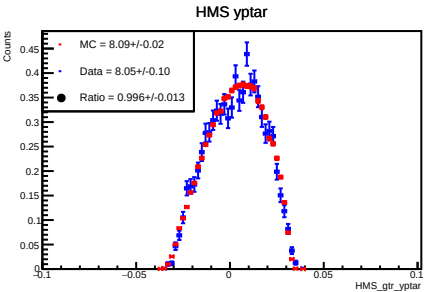
Data/SIMC Ratio = 0.996 +/- 0.013

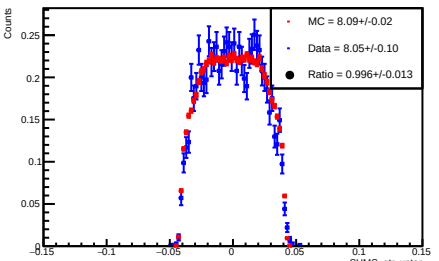
Without MMP Cut

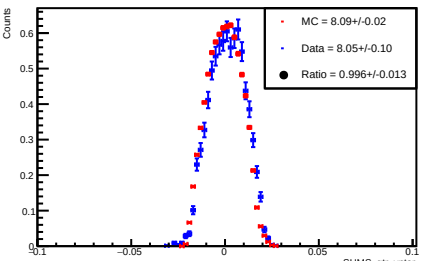


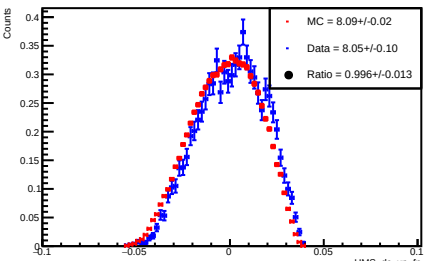


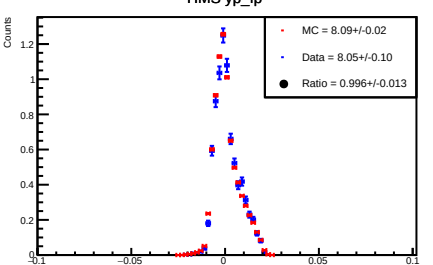


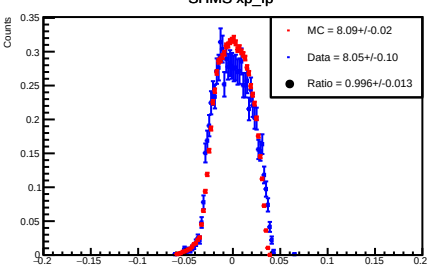


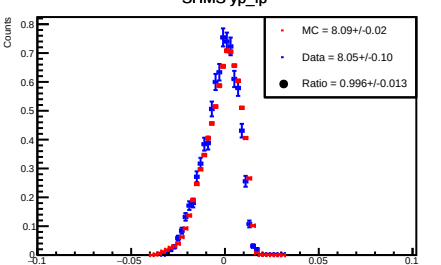

SHMS xptar
Counts
MC = 8.09+/-0.02
Data = 8.05+/-0.10
Ratio = 0.996+/-0.013
SHMS_gtr_xptar

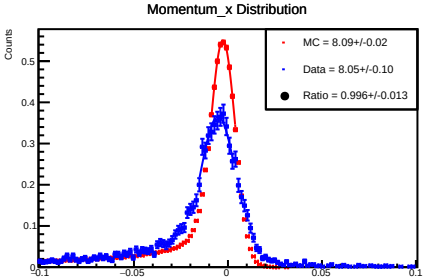

SHMS yptar
Counts
MC = 8.09+/-0.02
Data = 8.05+/-0.10
Ratio = 0.996+/-0.013
SHMS_gtr_yptar

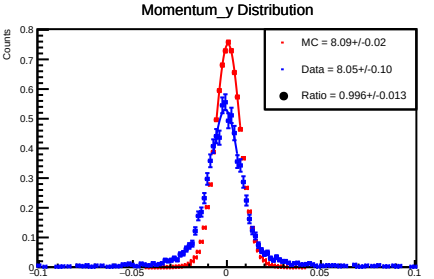

HMS xp_fp'
Counts
MC = 8.09+/-0.02
Data = 8.05+/-0.10
Ratio = 0.996+/-0.013
HMS_dc_xp_fp

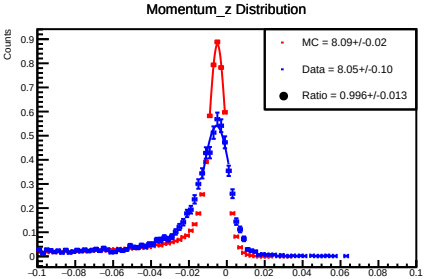

HMS yp_fp'
Counts
MC = 8.09+/-0.02
Data = 8.05+/-0.10
Ratio = 0.996+/-0.013
HMS_dc_yp_fp

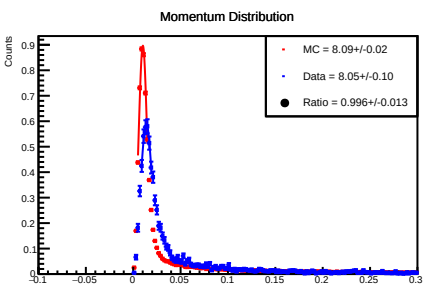

SHMS xp_fp'
Counts
MC = 8.09+/-0.02
Data = 8.05+/-0.10
Ratio = 0.996+/-0.013
SHMS_dc_xp_fp

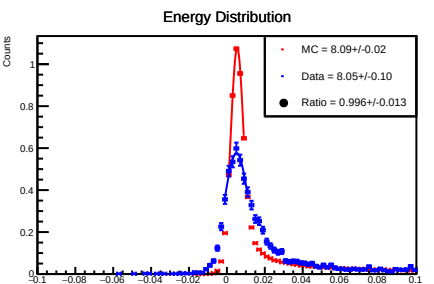

SHMS yp_fp'
Counts
MC = 8.09+/-0.02
Data = 8.05+/-0.10
Ratio = 0.996+/-0.013
SHMS_dc_yp_fp

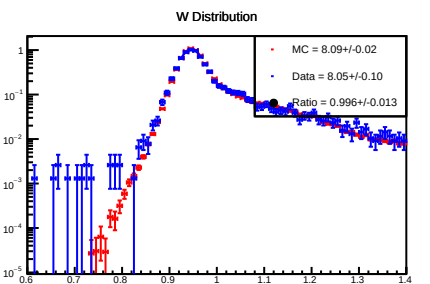

Momentum_x Distribution
Counts
MC = 8.09+/-0.02
Data = 8.05+/-0.10
Ratio = 0.996+/-0.013
pmiss_x

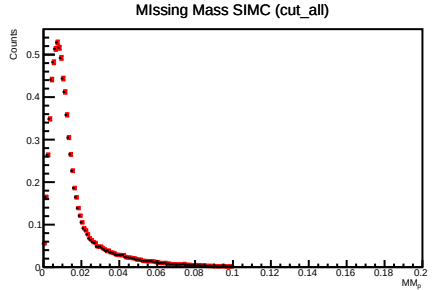

Momentum_y Distribution
Counts
MC = 8.09+/-0.02
Data = 8.05+/-0.10
Ratio = 0.996+/-0.013
pmiss_y

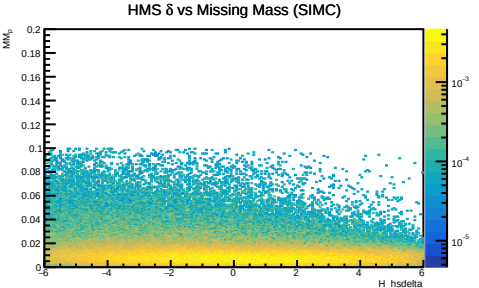

Momentum_z Distribution
Counts
MC = 8.09+/-0.02
Data = 8.05+/-0.10
Ratio = 0.996+/-0.013
pmiss_z

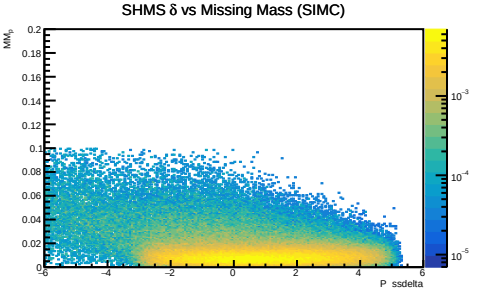

Momentum Distribution
Counts
MC = 8.09+/-0.02
Data = 8.05+/-0.10
Ratio = 0.996+/-0.013
pmiss

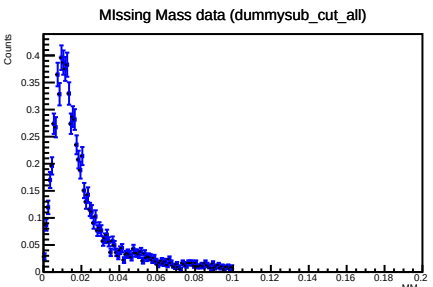

Energy Distribution
Counts
MC = 8.09+/-0.02
Data = 8.05+/-0.10
Ratio = 0.996+/-0.013
emiss

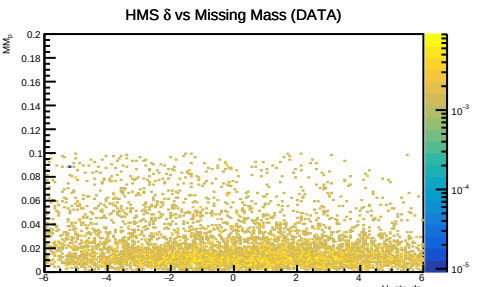

W Distribution
Counts
MC = 8.09+/-0.02
Data = 8.05+/-0.10
Ratio = 0.996+/-0.013
W

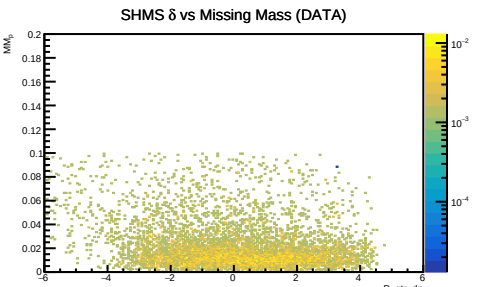

MIssing Mass SIMC (cut_all)
Counts
MM_p

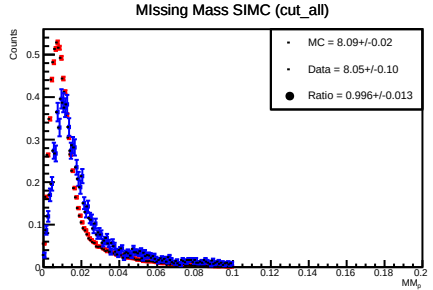

HMS δ vs Missing Mass (SIMC)
MM_p
H_hsdelta

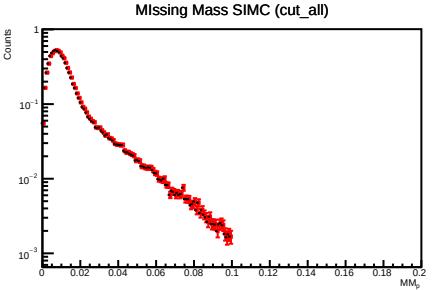

SHMS δ vs Missing Mass (SIMC)
MM_p
P_ssdelta

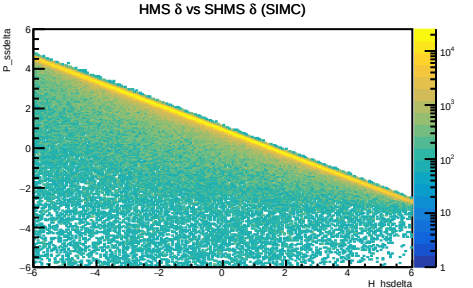

MIssing Mass data (dummysub_cut_all)
Counts
MM_p

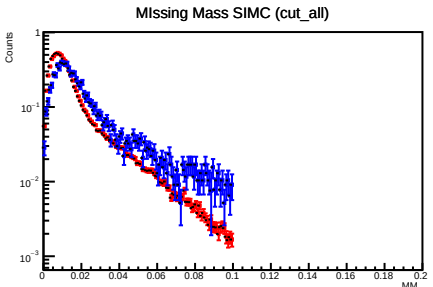

HMS δ vs Missing Mass (DATA)
MM_p
H_gtr_dp

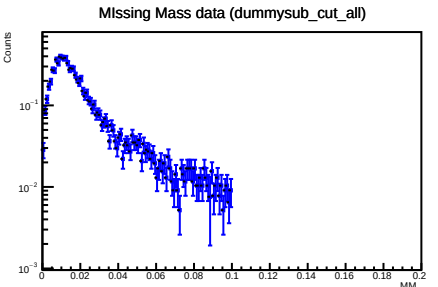

SHMS δ vs Missing Mass (DATA)
MM_p
P_gtr_dp

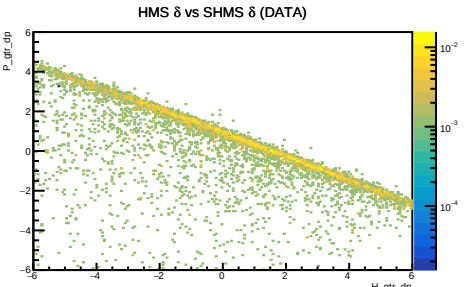

MIssing Mass SIMC (cut_all)
Counts
MC = 8.09+/-0.02
Data = 8.05+/-0.10
Ratio = 0.996+/-0.013
MM_p

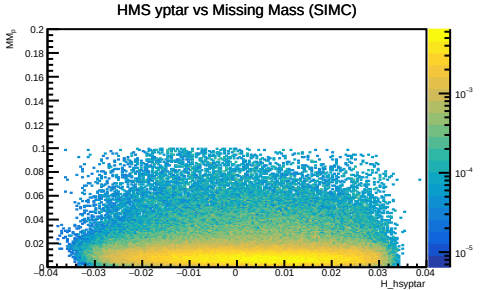

MIssing Mass SIMC (cut_all)
Counts
MM_p

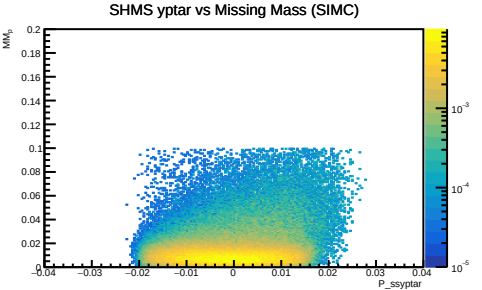

HMS δ vs SHMS δ (SIMC)
P_ssdelta
H_hsdelta

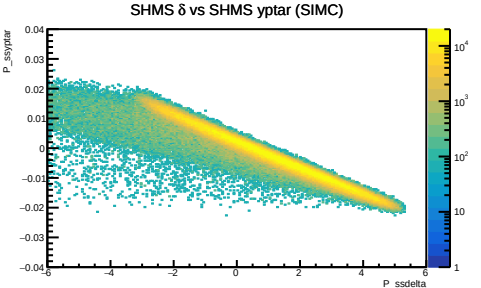

MIssing Mass SIMC (cut_all)
Counts
MM_p

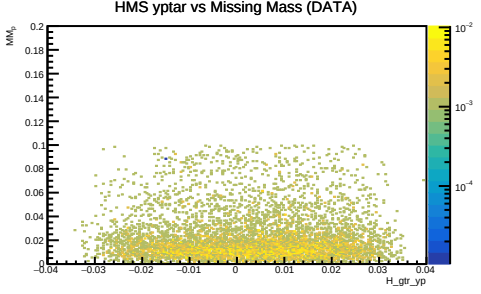

MIssing Mass data (dummysub_cut_all)
Counts
MM_p

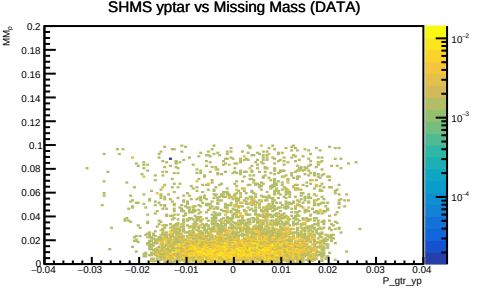

HMS δ vs SHMS δ (DATA)
P_gtr_dp
H_gtr_dp

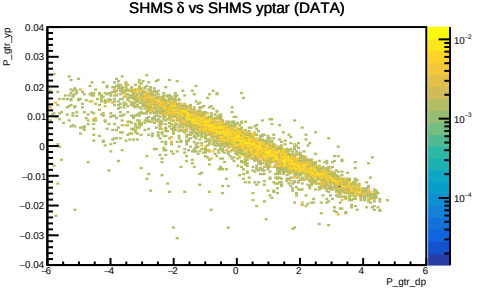

HMS yptar vs Missing Mass (SIMC)
MM_p
H_hsyptar


SHMS yptar vs Missing Mass (SIMC)
MM_p
P_ssyptar


SHMS δ vs SHMS yptar (SIMC)
P_ssyptar
P_ssdelta


HMS yptar vs Missing Mass (DATA)
MM_p
H_gtr_yp


SHMS yptar vs Missing Mass (DATA)
MM_p
P_gtr_yp


SHMS δ vs SHMS yptar (DATA)
P_gtr_yp
P_gtr_dp