



University  
of Regina

# Kaon LT

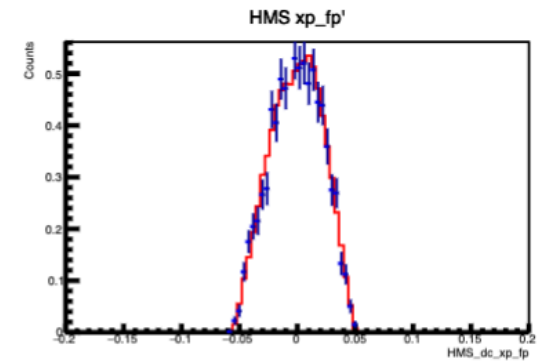
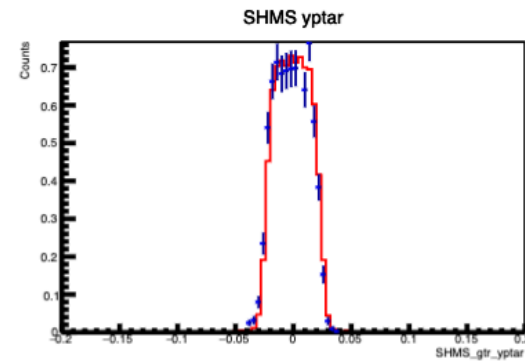
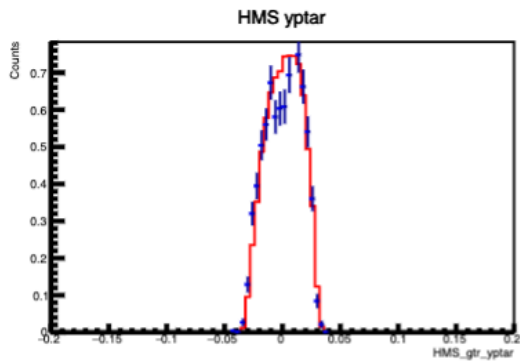
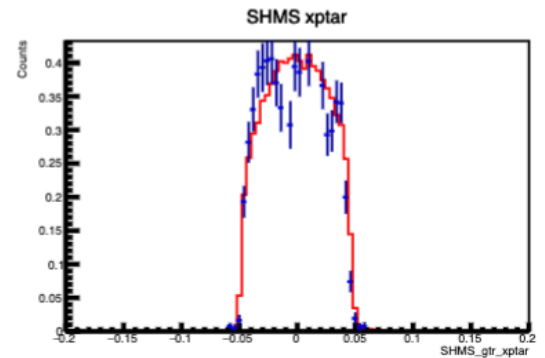
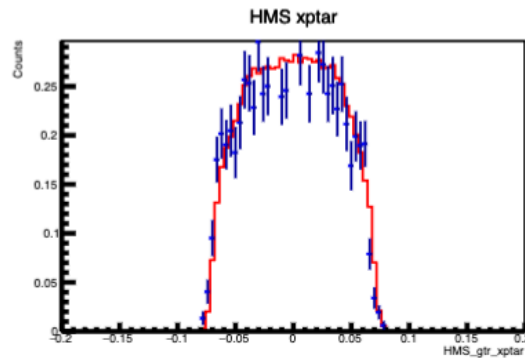
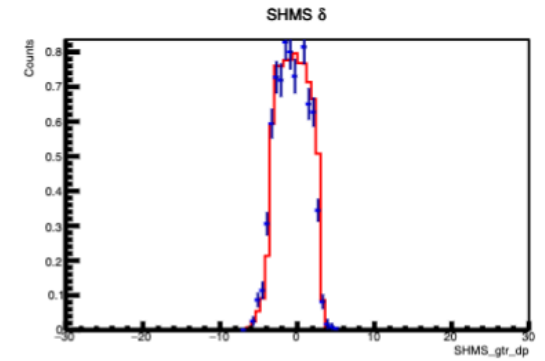
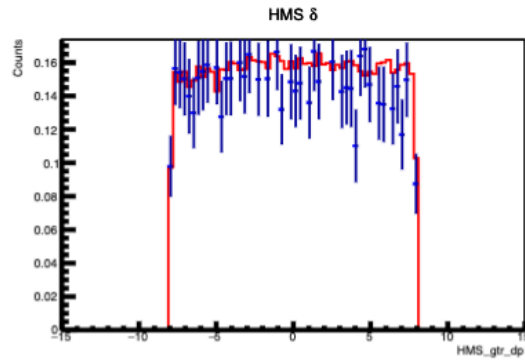
**Abdennacer Hamdi**

Kaon LT Meeting  
02/06/2025

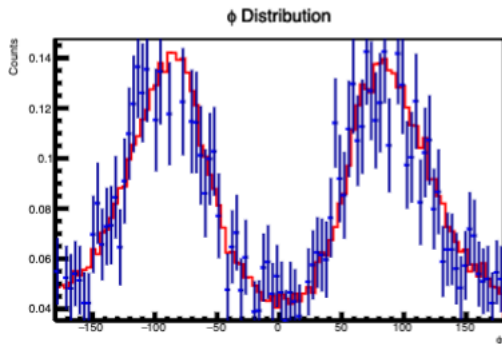
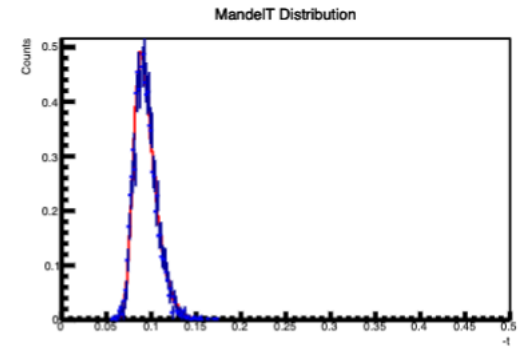
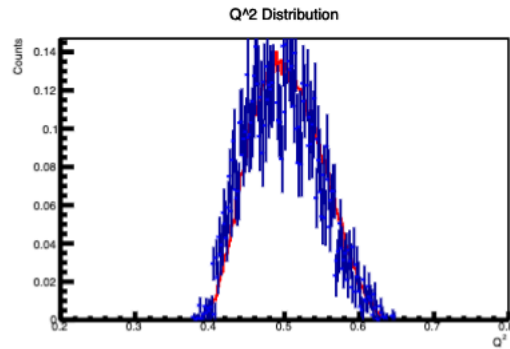
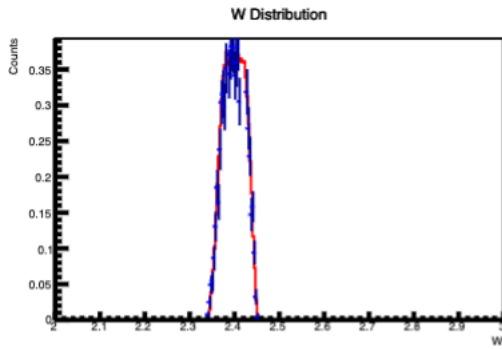
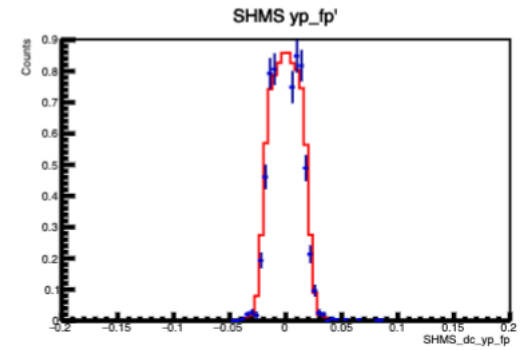
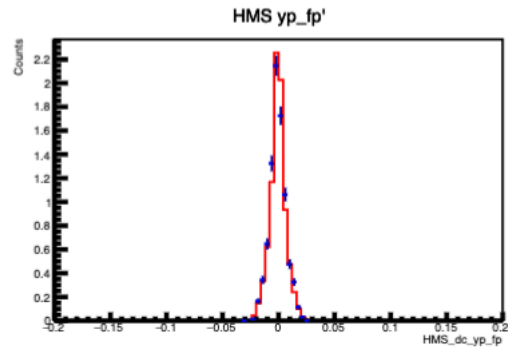
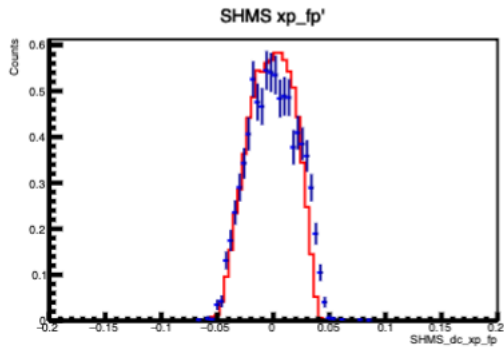
# Kinematics : $\Lambda$

HeePCoin Setting  
Beam Energy = 3.834  
 $Q^2 = 0.498$   
HMS\_p = 0.968  
HMS\_theta = 21.140  
SHMS\_p = 2.583  
SHMS\_theta = 6.790  
Red = SIMC  
Blue = DATA

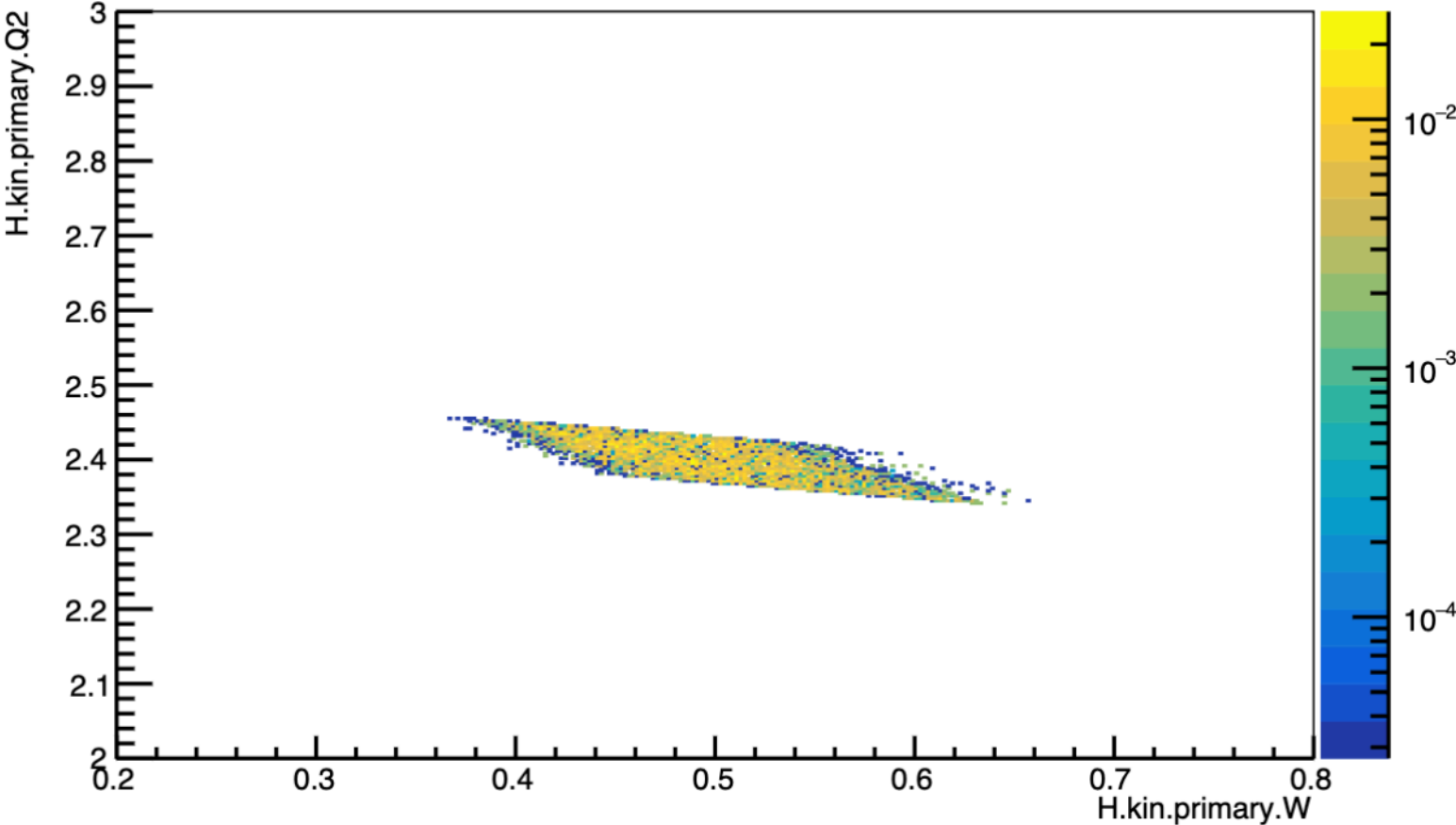
Data/SIMC Ratio = 1.000



# Kinematics : $\Delta$



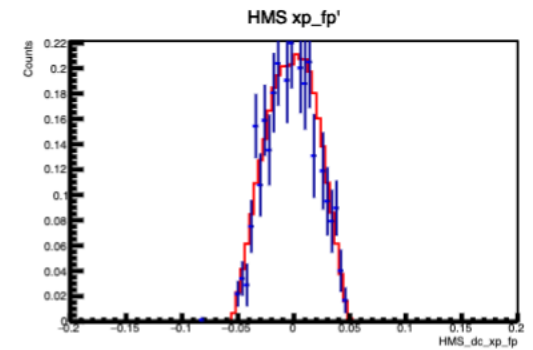
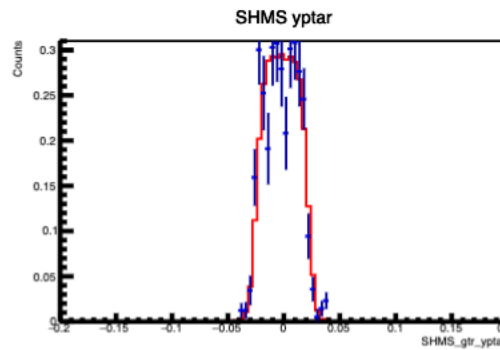
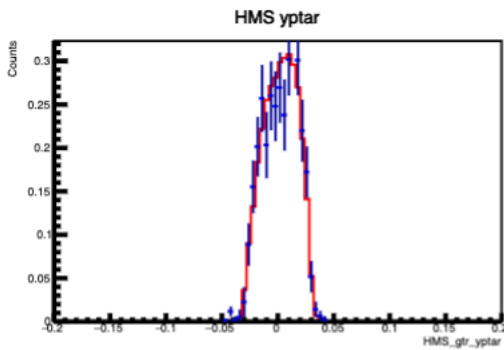
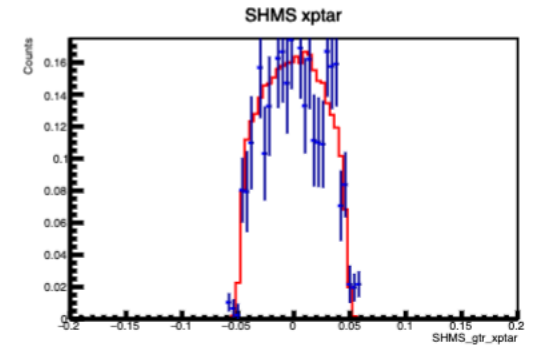
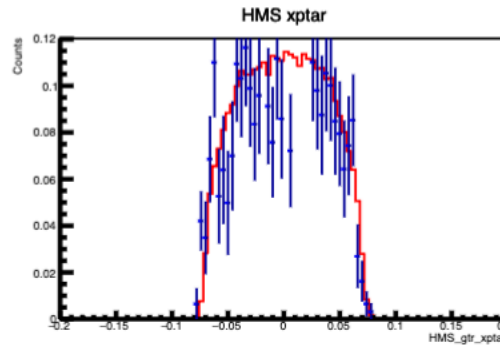
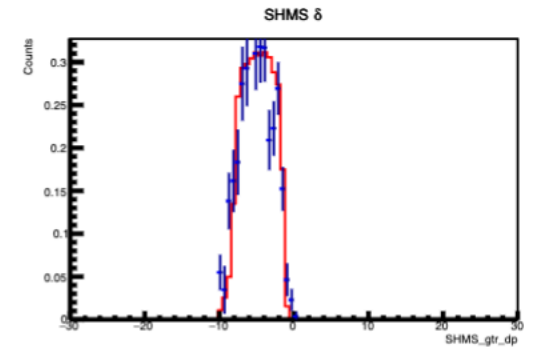
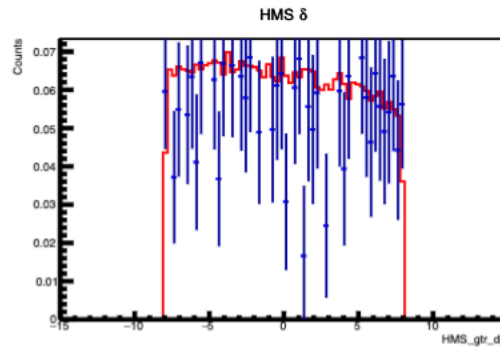
# Kinematics : $\Lambda$



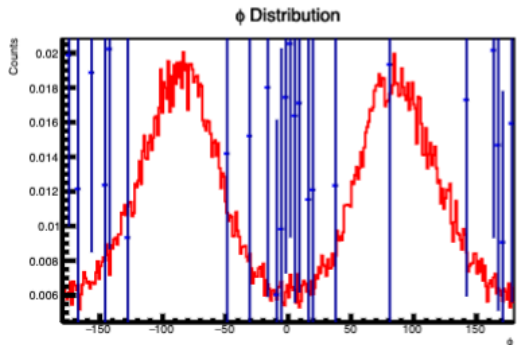
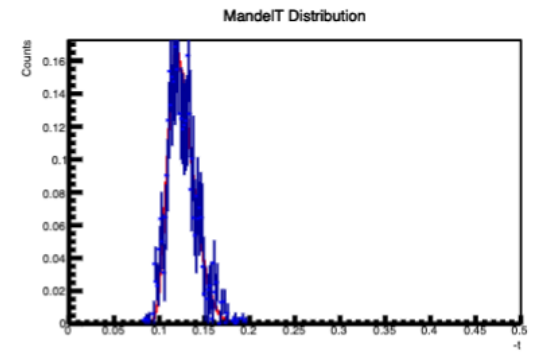
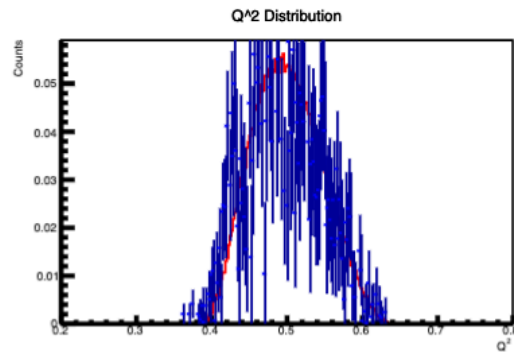
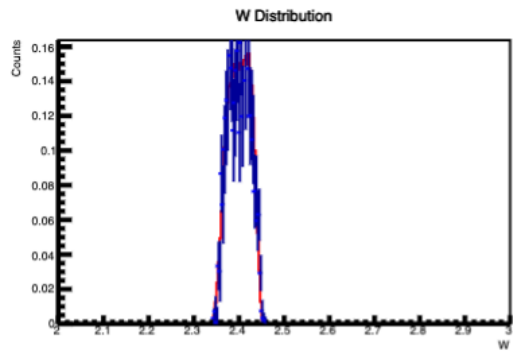
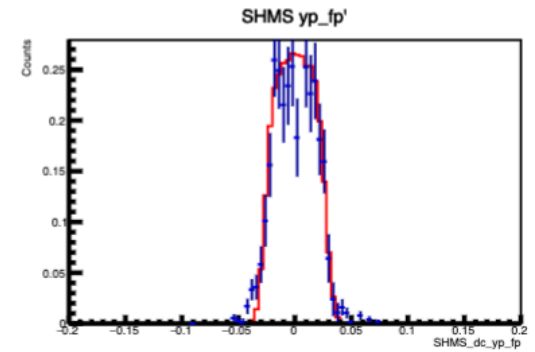
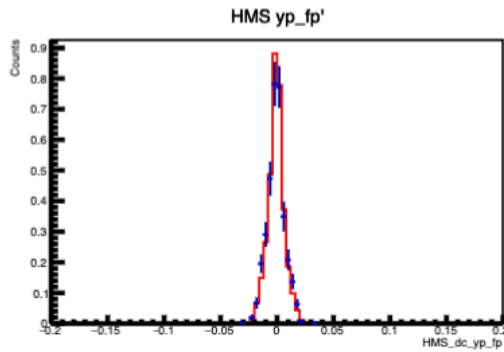
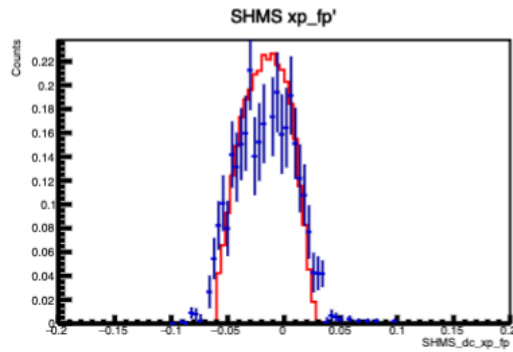
# Kinematics : $\Sigma$

HeePCoin Setting  
Beam Energy = 3.834  
 $Q^2 = 0.495$   
HMS\_p = 0.968  
HMS\_theta = 21.140  
SHMS\_p = 2.583  
SHMS\_theta = 6.790  
Red = SIMC  
Blue = DATA

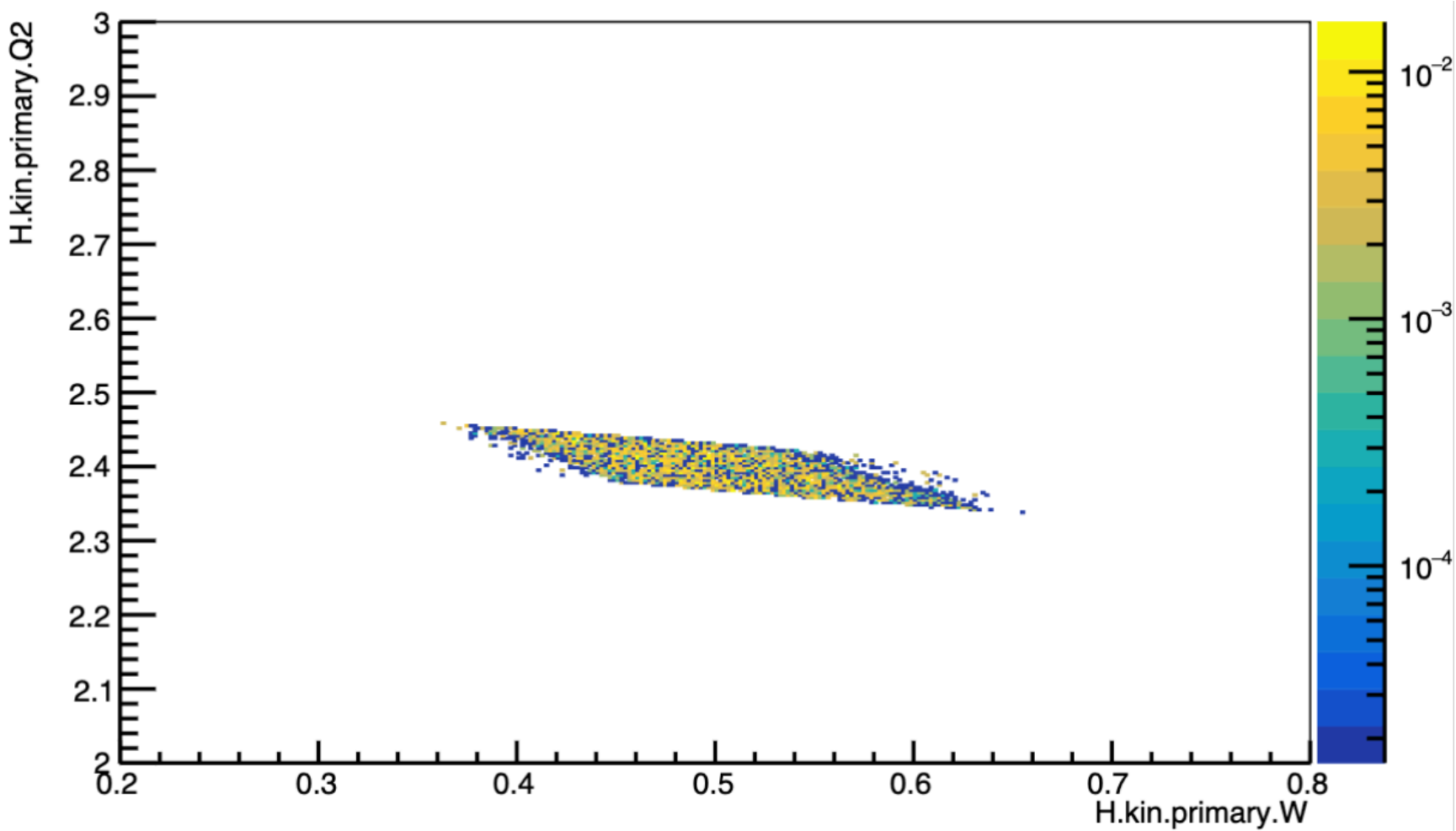
Data/SIMC Ratio = 1.000



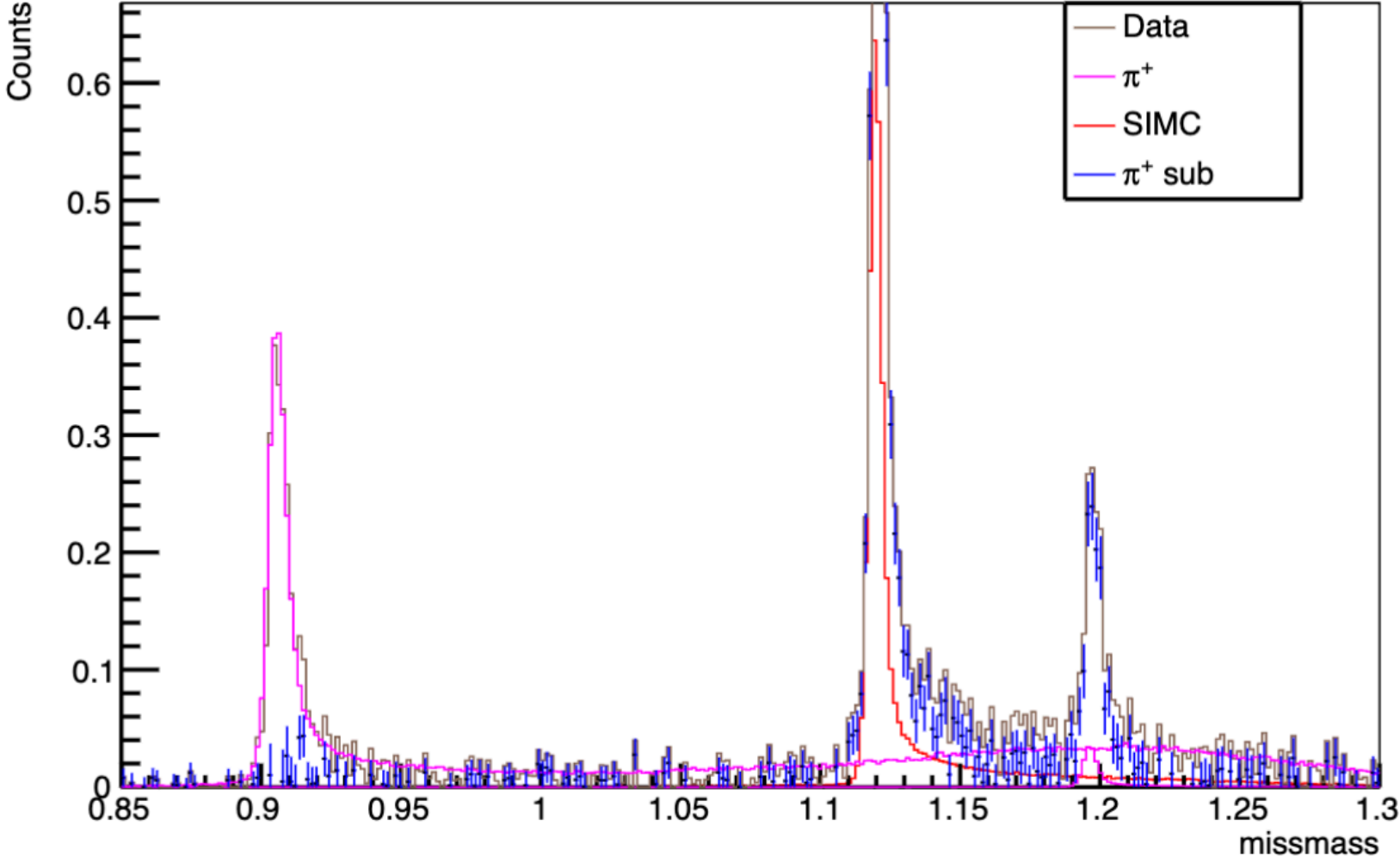
# Kinematics : $\Sigma$



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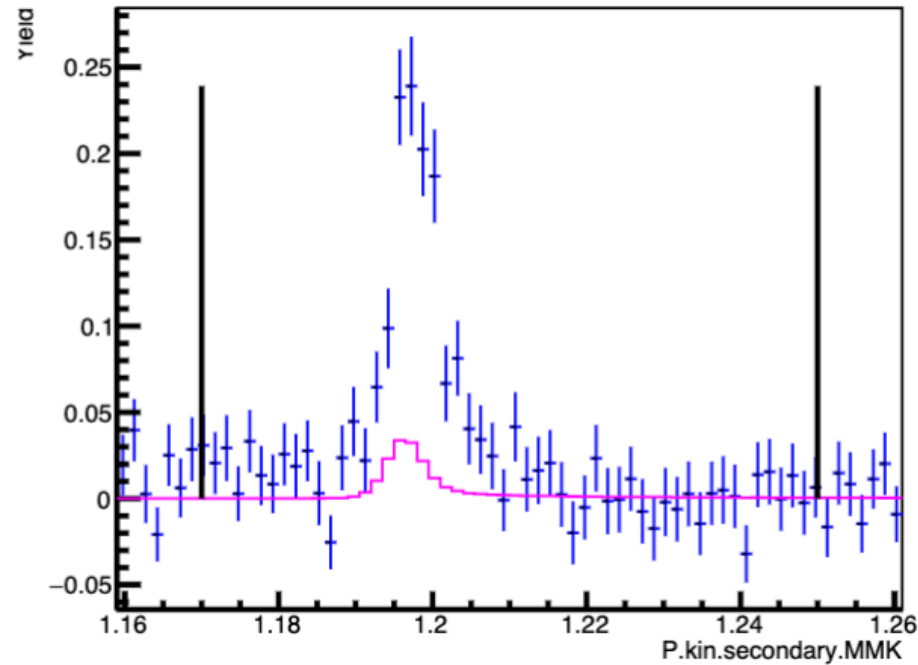
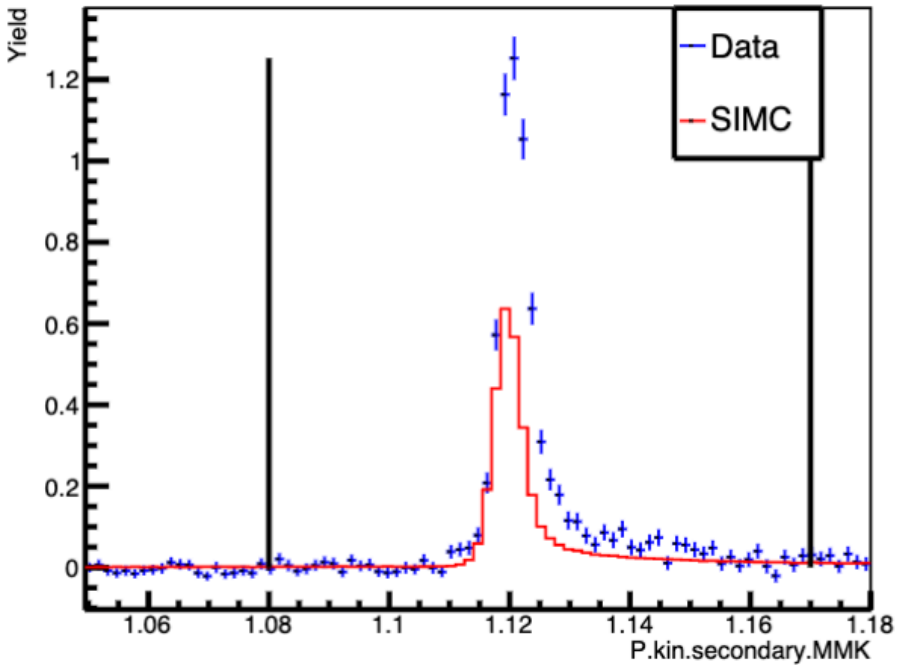


# Missing Mass





# Missing Mass $\Lambda$ and $\Sigma$



lambda (data)	7.075944	0.16708
lambda (SIMC)	3.291590	0.011181
Lambda (ratio)	2.149704	0.051282
sigma (data)	1.629151	0.143432
sigma (SIMC)	0.186300	0.000611
sigma (ratio)	8.744761	0.770433