

Data Governance for Φ Beam Spin Asymmetry

Weekly Update

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University of Connecticut

November 26, 2020

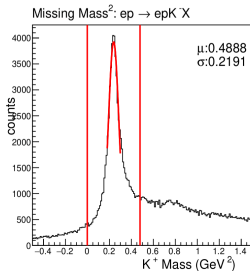
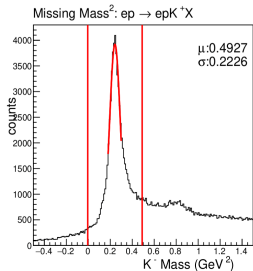
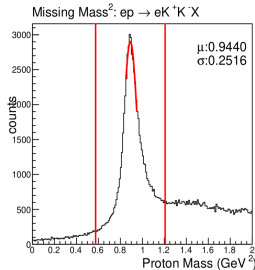
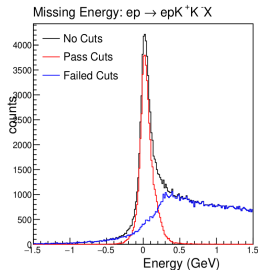


Figure: Brandon 3.32a

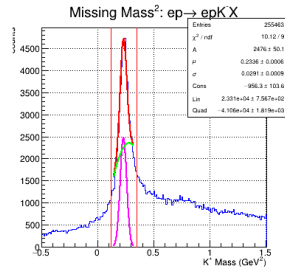
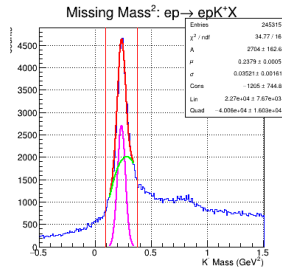
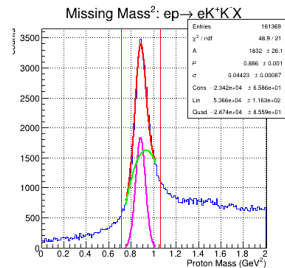
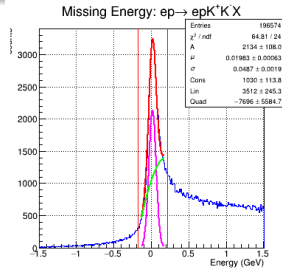


Figure: My Reproduction

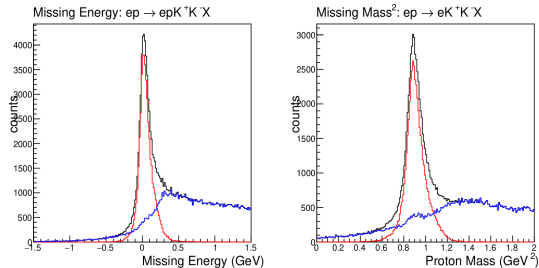


Figure: Brandon 3.32b

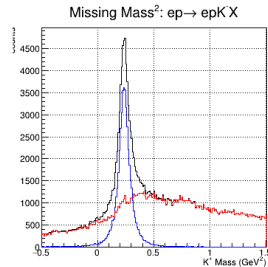
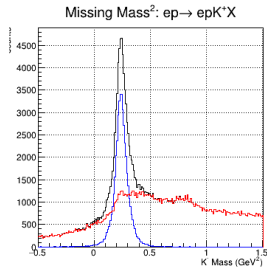
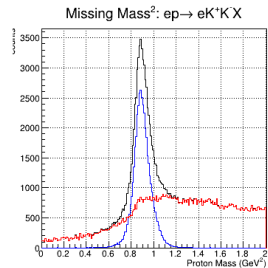
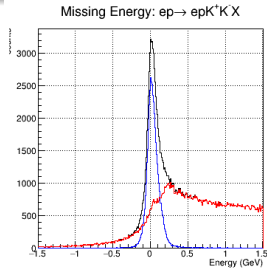
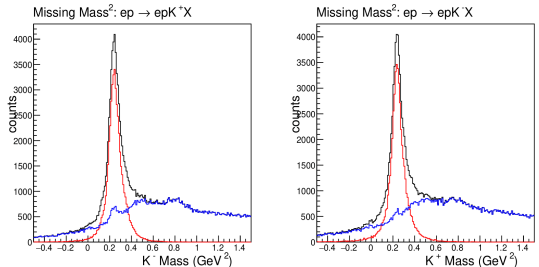


Figure: My Reproduction

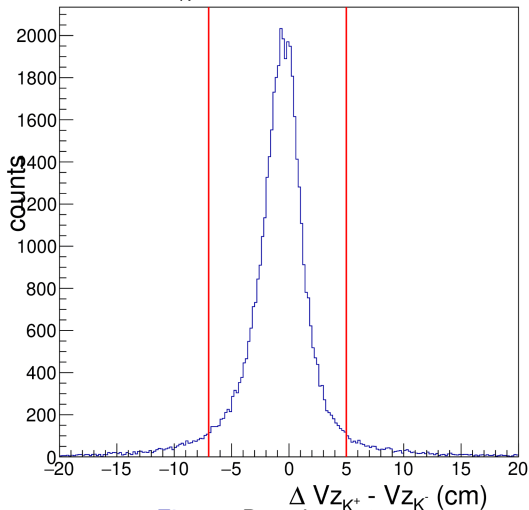
(FD), $\Delta Vz_{K^+} - Vz_{K^-}$, Pass

Figure: Brandon 3.34a

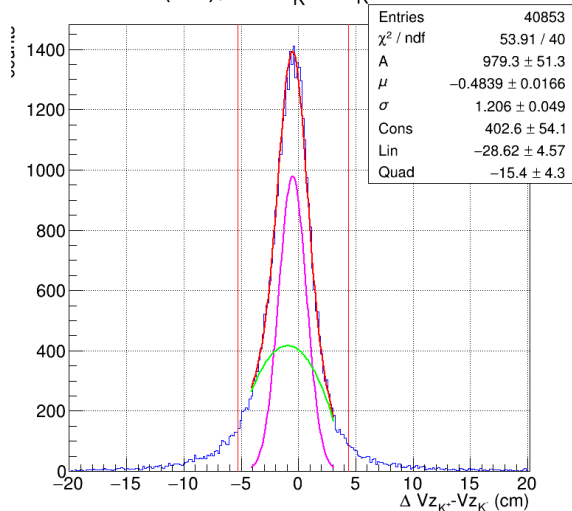
(FD), $\Delta Vz_{K^+} - Vz_{K^-}$, Pass

Figure: My Reproduction

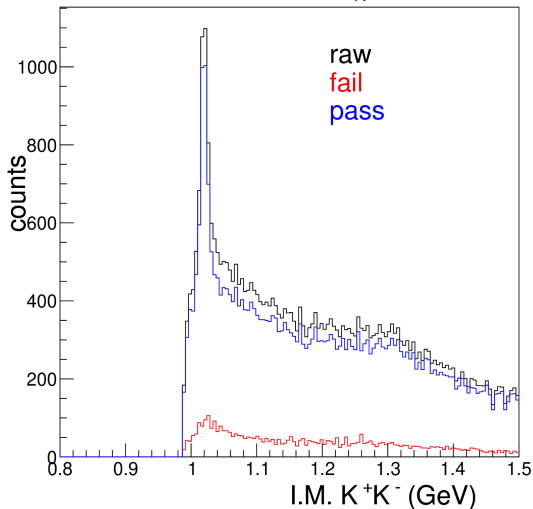
I.M. K^+K^- , Pass-Fail $\Delta V_{z_{K^+}} - V_{z_{K^-}}$ 

Figure: Brandon 3.34b

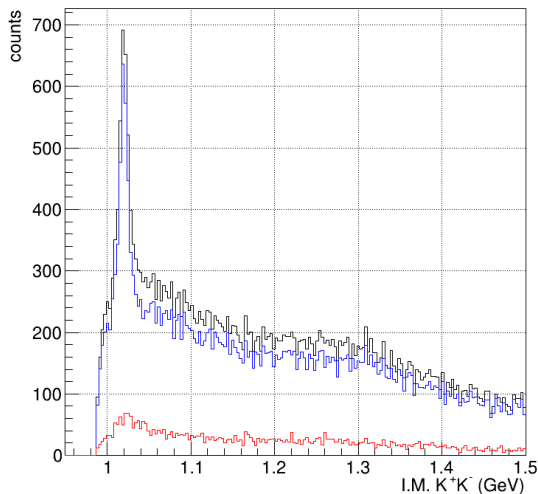
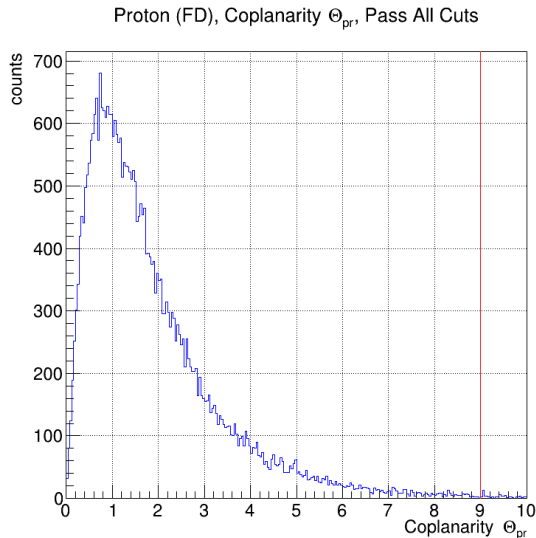
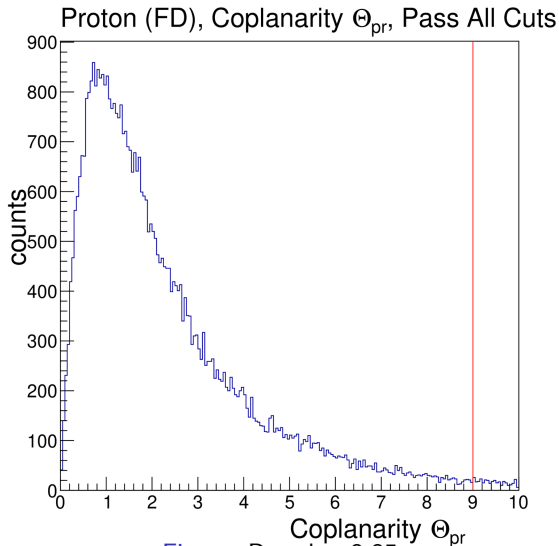
I.M. K^+K^- Pass-Fail $\Delta V_{z_{K^+}} - V_{z_{K^-}}$ 

Figure: My Reproduction



I.M. K^+K^- , Pass-Fail Coplan. $\theta_{pr} < 9$ deg Cuts

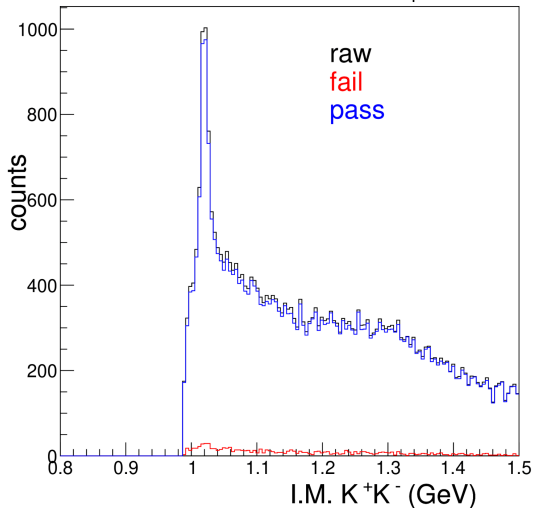


Figure: Brandon 3.35b

I.M. K^+K^- , Pass-Fail Coplan. $\theta_{pr} < 9$ deg Cuts

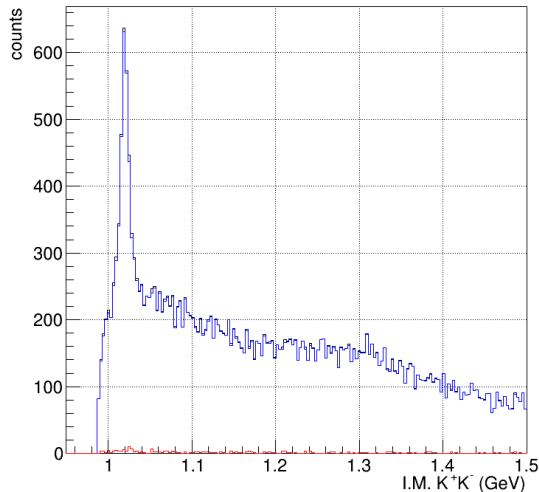


Figure: My Reproduction

K^+ (FD), Coplanarity Θ_{K^+} , Pass All Cuts

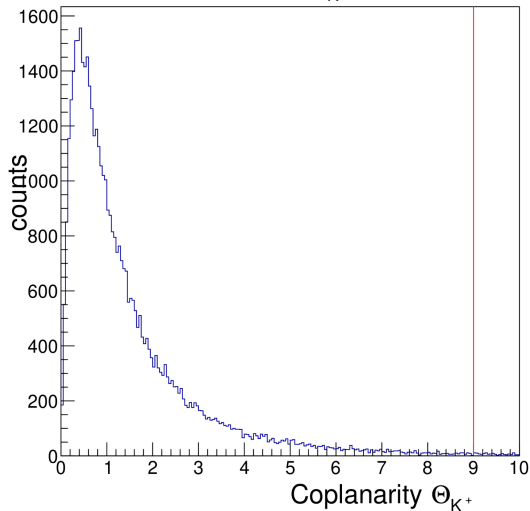


Figure: Brandon 3.35c

K^+ (FD), Coplanarity Θ_{K^+} , Pass All Cuts

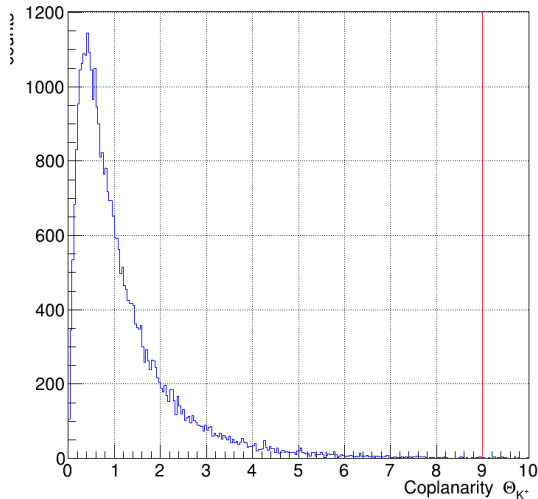


Figure: My Reproduction

I.M. K^+K^- , Pass-Fail Coplan. $\theta_{K^+} < 9$ deg Cuts

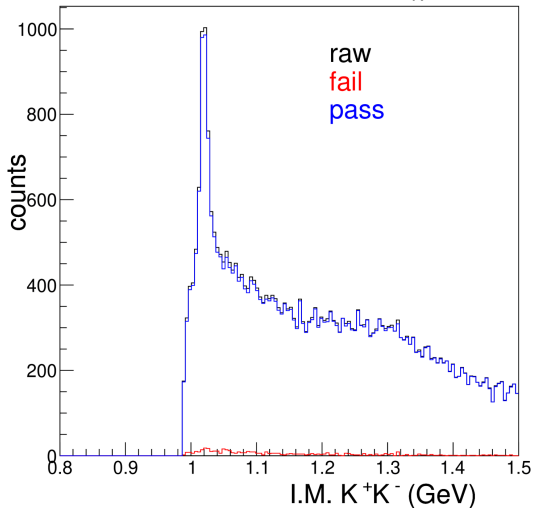


Figure: Brandon 3.35d

I.M. K^+K^- , Pass-Fail Coplan. $\theta_{K^+} < 9$ deg Cuts

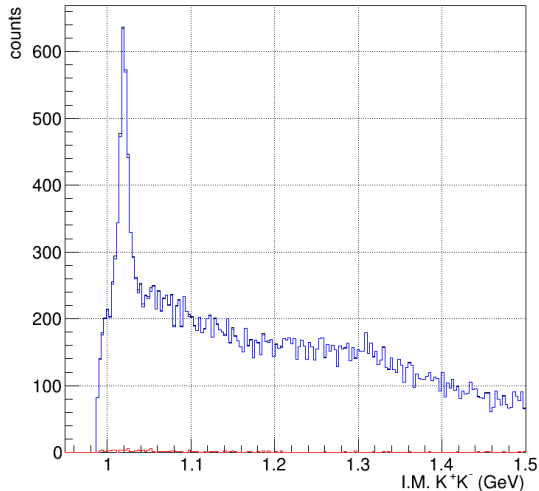


Figure: My Reproduction

K^- (FD), Coplanarity Θ_{K^-} , Pass All Cuts

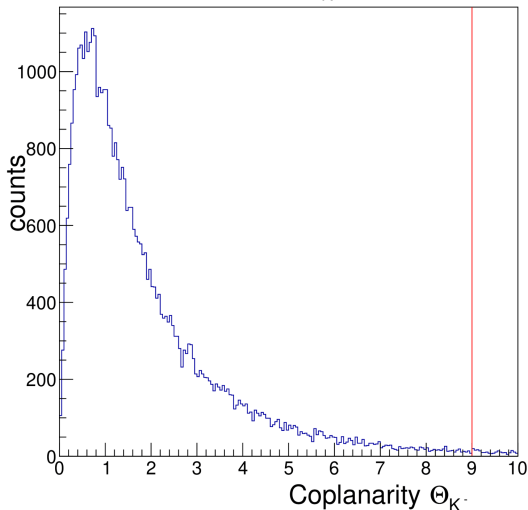


Figure: Brandon 3.35e

K^- (FD), Coplanarity Θ_{K^-} , Pass All Cuts

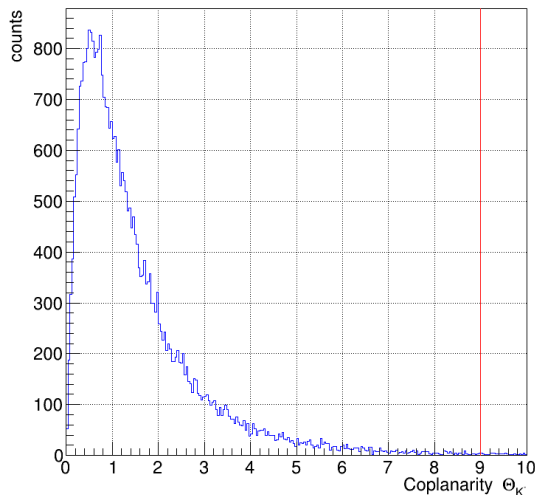


Figure: My Reproduction

I.M. K^+K^- , Pass-Fail Coplan. $\theta_K < 9$ deg Cuts

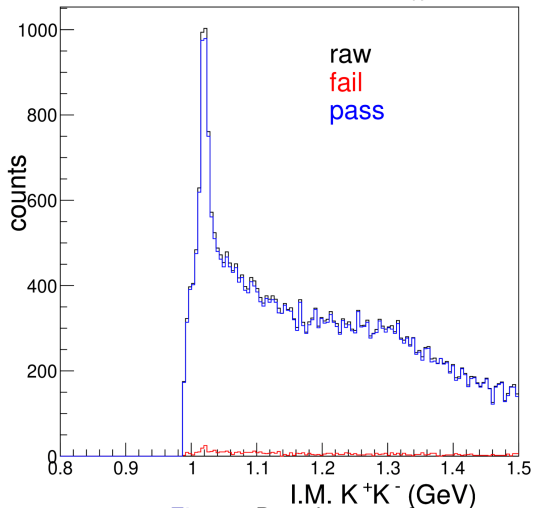


Figure: Brandon 3.35f

I.M. K^+K^- , Pass-Fail Coplan. $\theta_K < 9$ deg Cuts

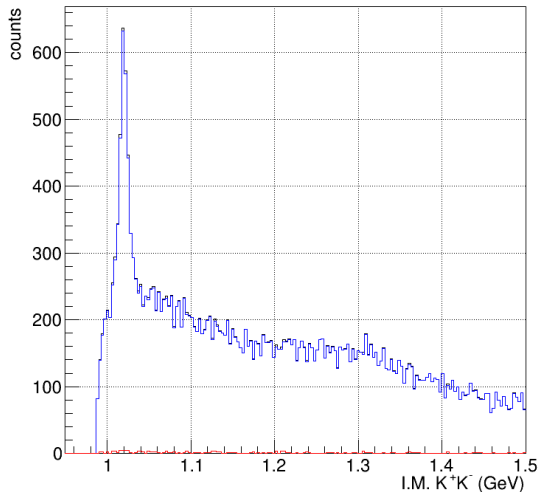


Figure: My Reproduction

I.M. K^+K^- , Pass-Fail All Coplan. Cuts

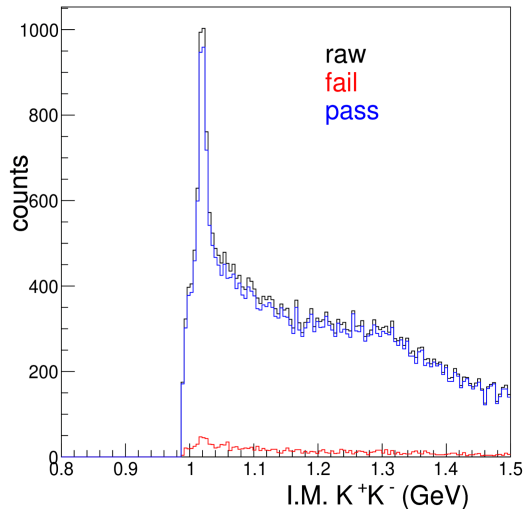


Figure: Brandon 3.36

I.M. K^+K^- , Pass-Fail All Coplan. Cuts

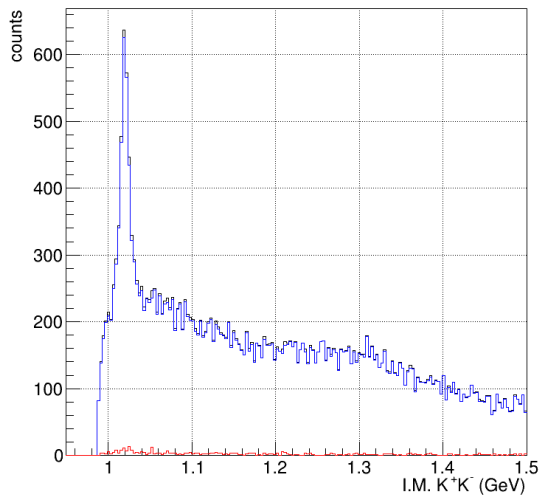


Figure: My Reproduction

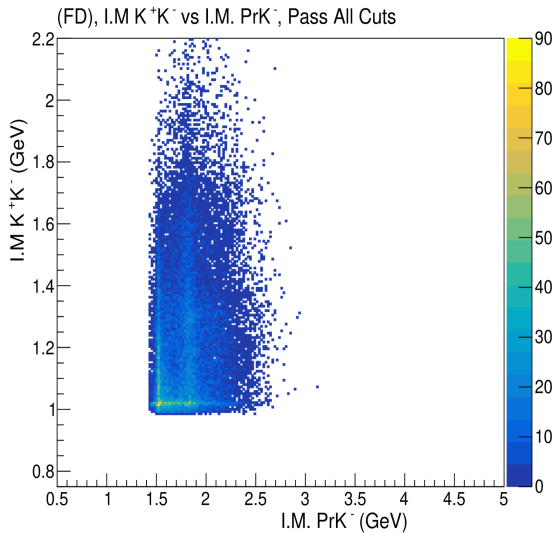


Figure: Brandon 3.33

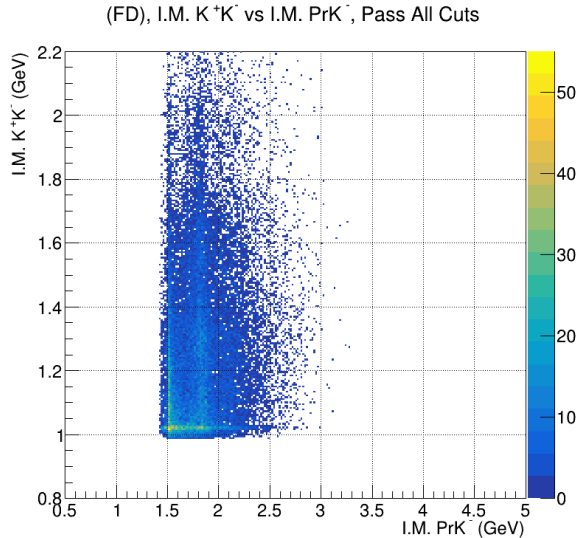


Figure: My Reproduction

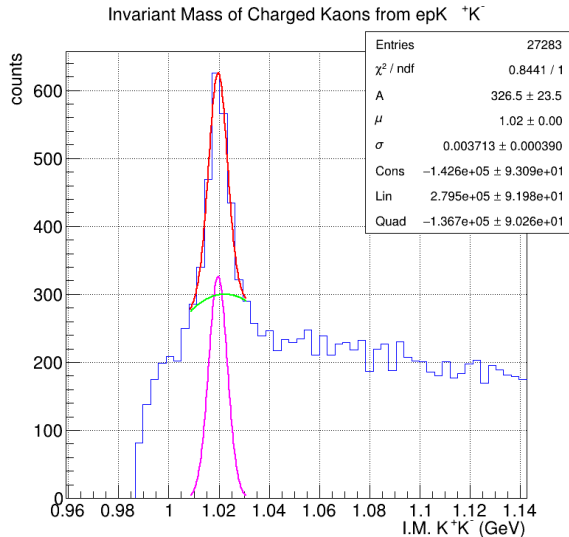
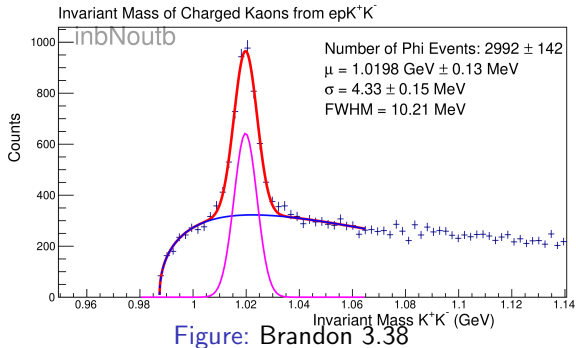


Figure: My Reproduction

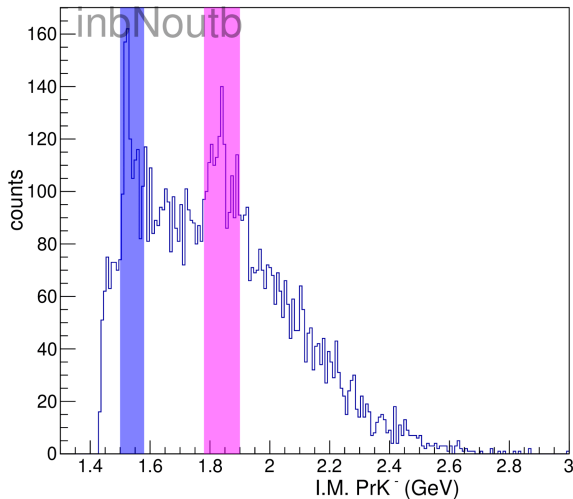
(FD), I.M. PrK^- , Pass All, $1.0107 < \text{I.M. } K^+K^- < 1.0287$ 

Figure: Brandon 3.37

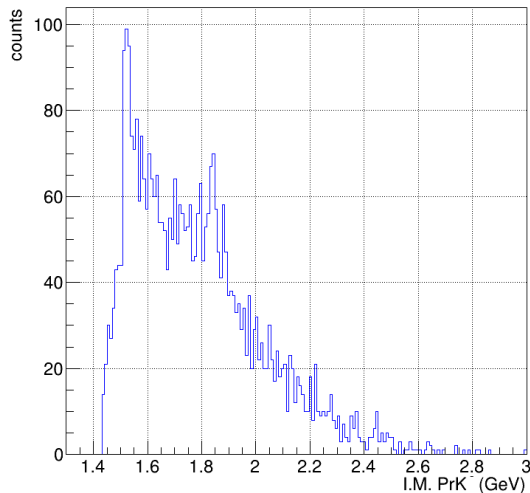
(FD), I.M. PrK^- , Pass All, $1.0107 < \text{I.M. } K^+K^- < 1.0287$ 

Figure: My Reproduction

Phase space, Q^2 , W , & x_B measurements

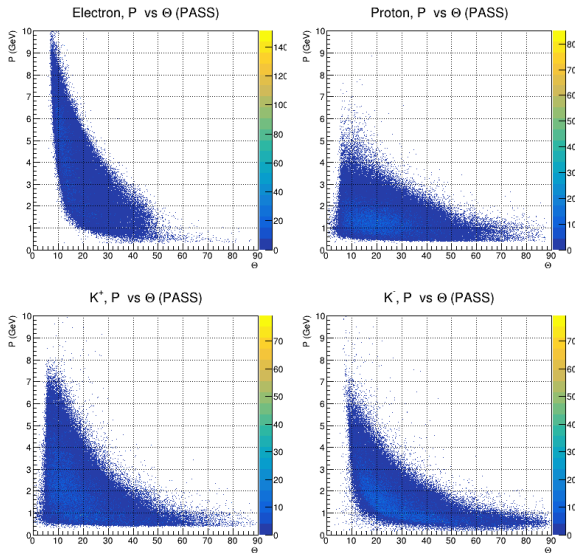


Figure: No Cuts

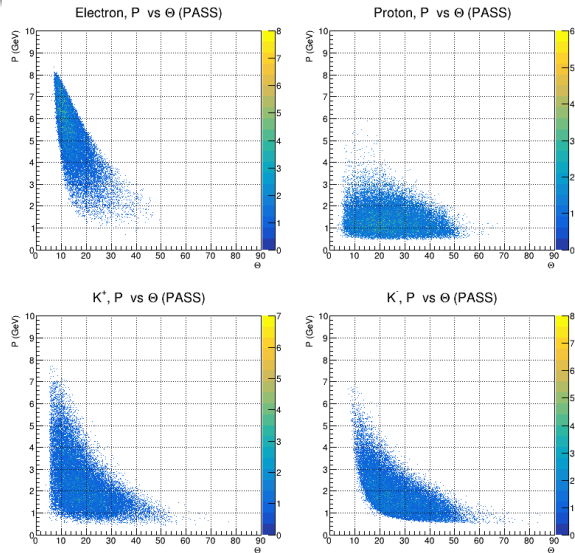


Figure: All Cuts

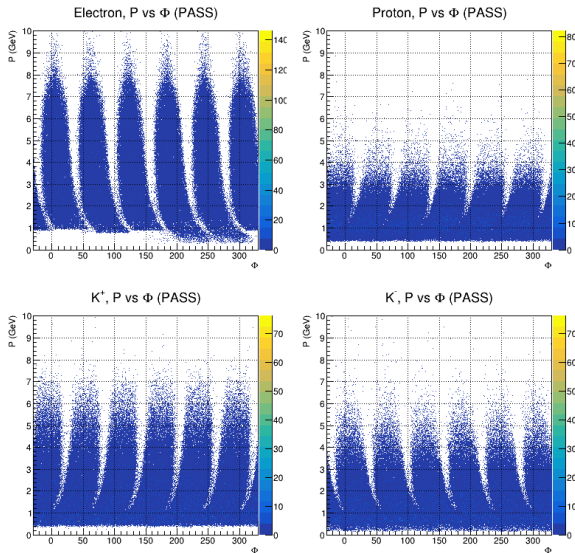


Figure: No Cuts

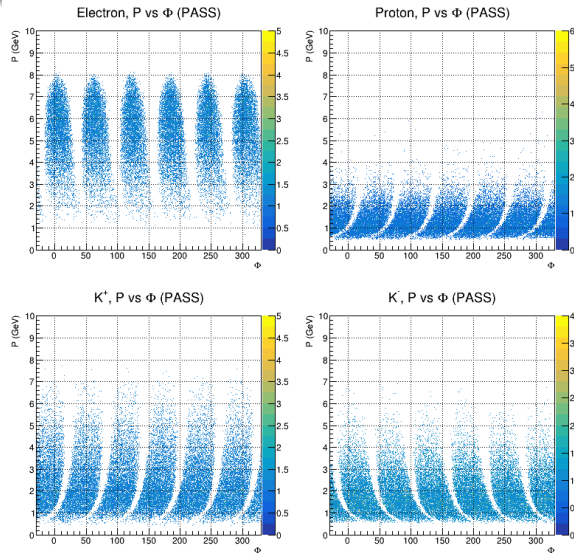
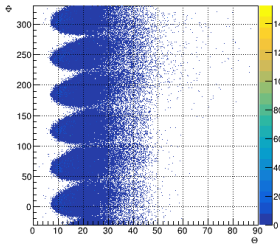
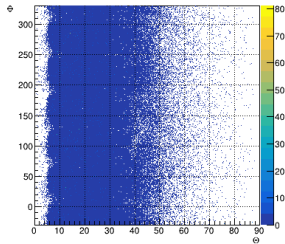


Figure: All Cuts

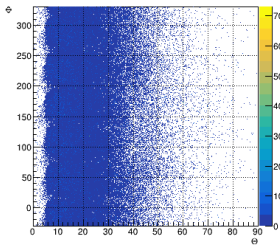
Electron, Φ vs Θ (PASS)



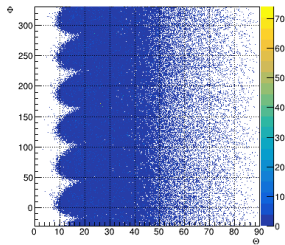
Proton, Φ vs Θ (PASS)



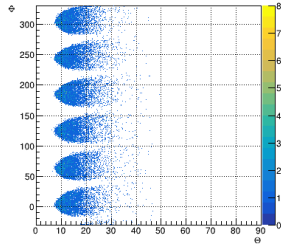
K^+ , Φ vs Θ (PASS)



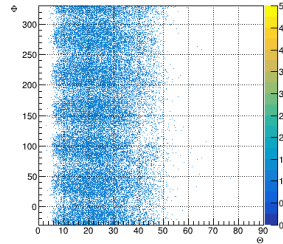
K^- , Φ vs Θ (PASS)



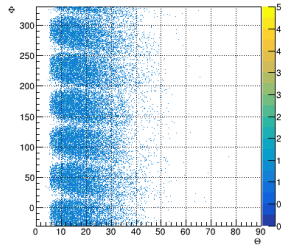
Electron, Φ vs Θ (PASS)



Proton, Φ vs Θ (PASS)



K^+ , Φ vs Θ (PASS)



K^- , Φ vs Θ (PASS)

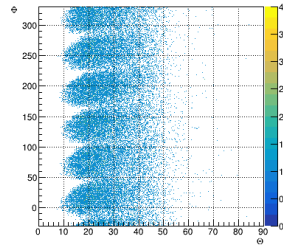


Figure: No Cuts

Figure: All Cuts

Q^2 vs W (PASS)

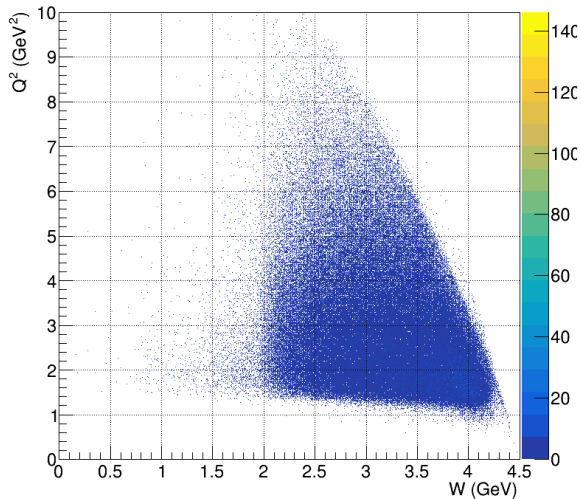


Figure: No Cuts

Q^2 vs W (PASS)

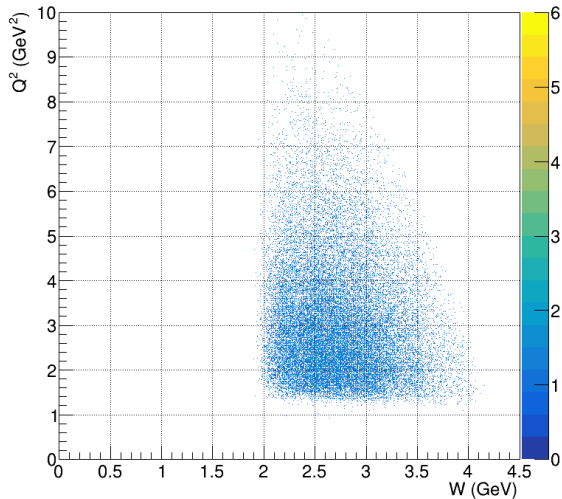


Figure: All Cuts

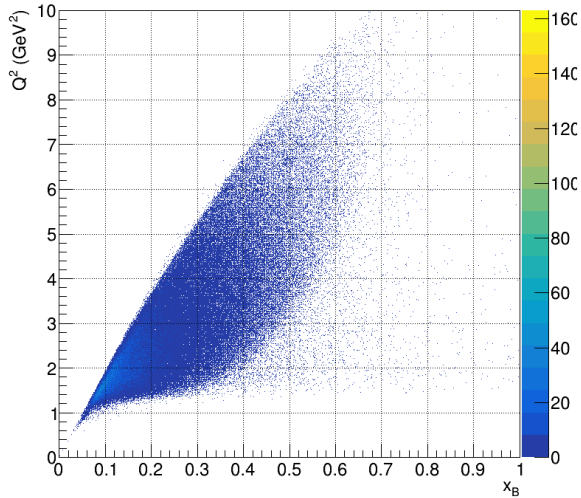
Q^2 vs x_B (PASS)

Figure: No Cuts

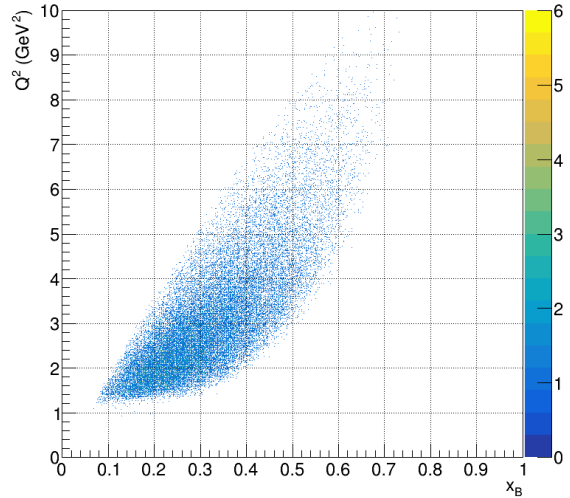
 Q^2 vs x_B (PASS)

Figure: All Cuts