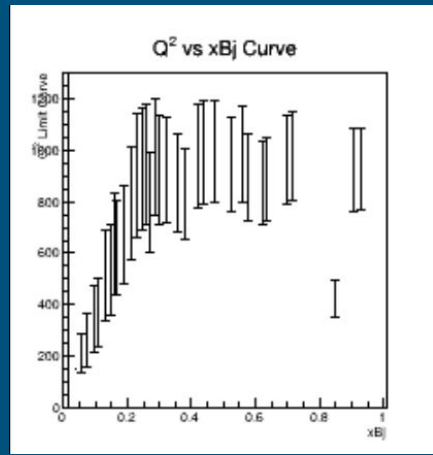
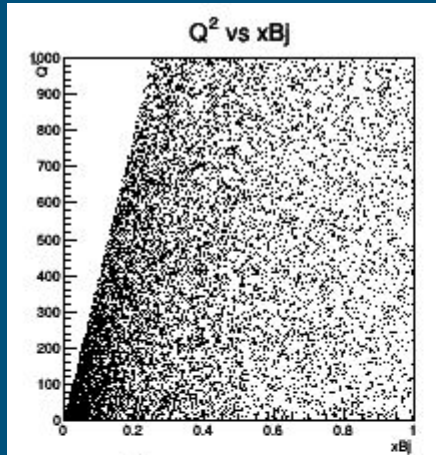


Simulations for Pion and Kaon Structure Function

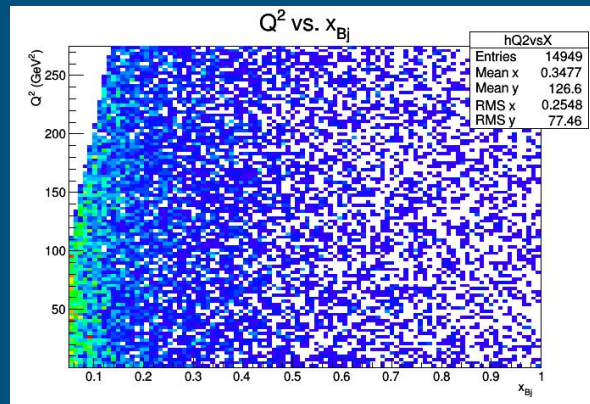
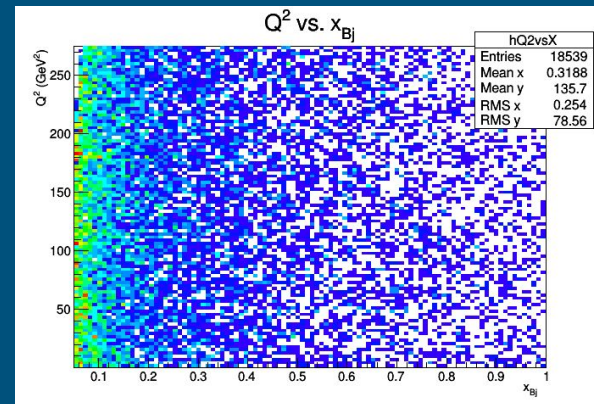
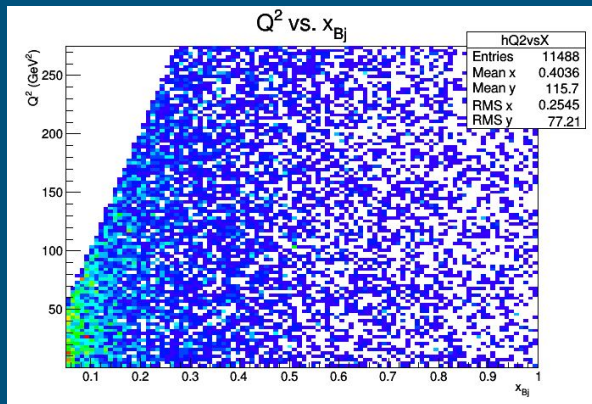
**Andres Vargas, Richard Trotta and Dr.
Tanja Horn**

Q² vs x Plots

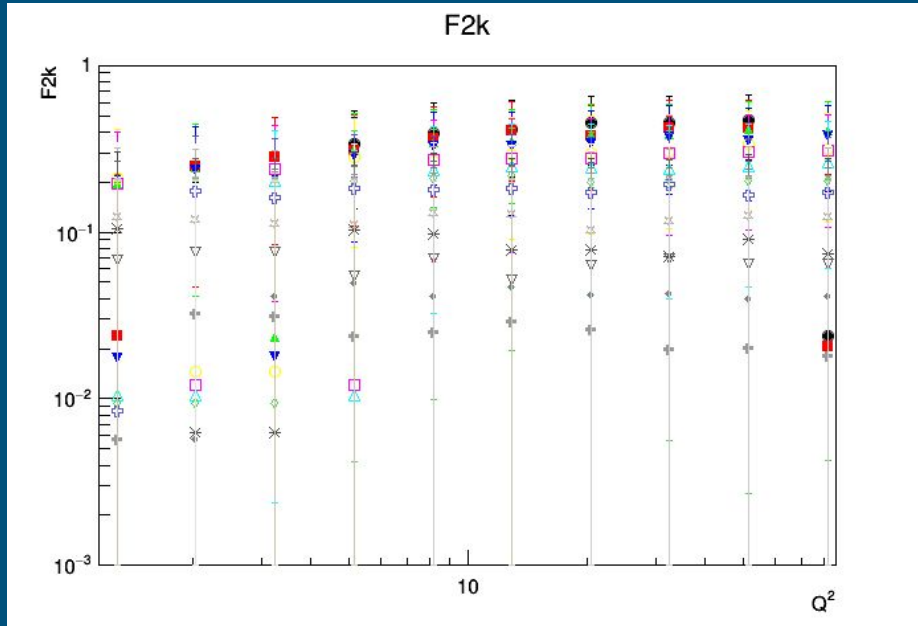


- Full plot distribution of Q² vs x for a particular energy scale
- Bin cut for fit separating the forbidden from the allowed Q² and x values
- Greater uncertainties and linearity decrease as x values increase (fitting expected behavior at high x)

Changing Energy Scales for Q^2 vs x



Bin Cuts for Ranging x Values



- Low x
 - Quark sea and gluons are of interest
- Mid x
 - Begin testspf assumptions used in extraction of structure function
- High x
 - Differences in pion, kaon, and proton become aparent.
- Decreasing $f2k$ values as x decrease.
- Linear distributions of Q^2 values for each x