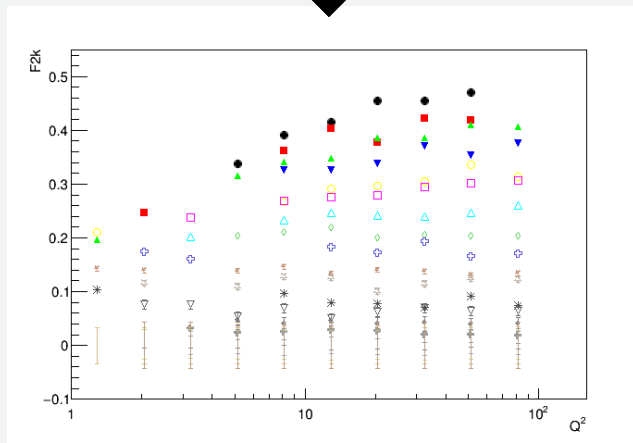
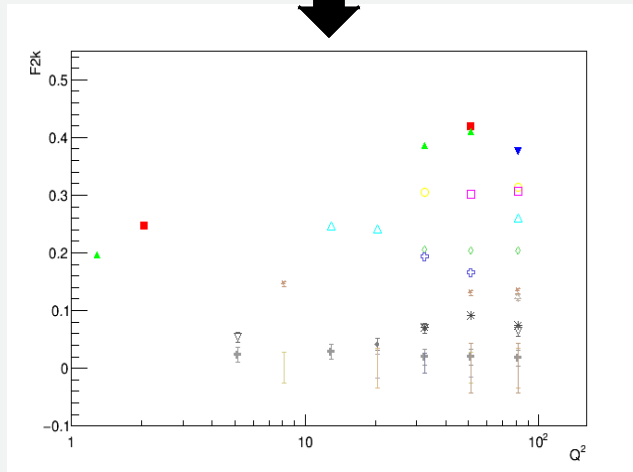
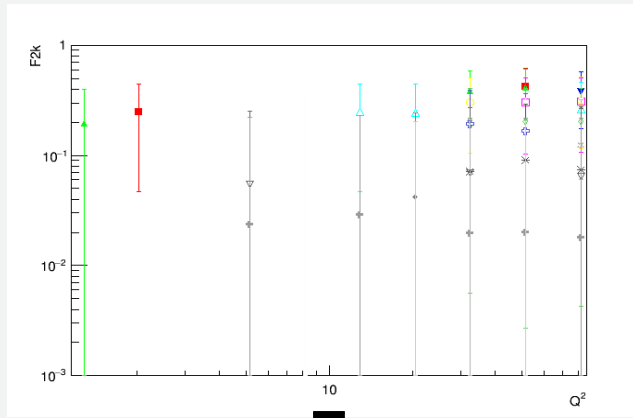


WEEK 2 PROGRESS

Dannie Griggs

Q2vsxbj Graph

- Change colors of points and bars
- No log scale on y axis
- Y data points are missing for each value of i and many values of j
 - Increasing number of Nevt's (in TDISMC_EICK.h) 1000->21000



```

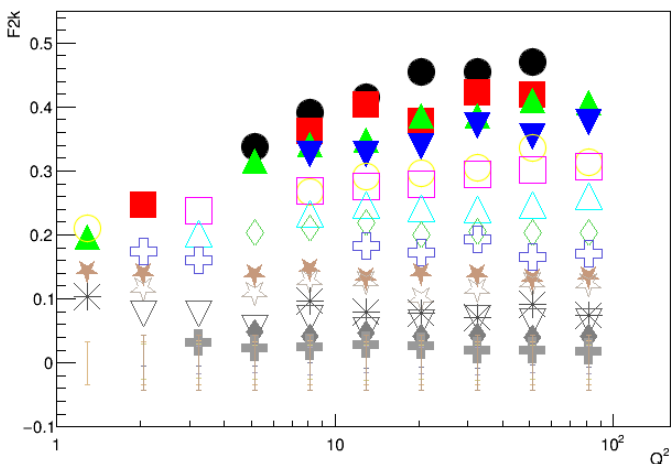
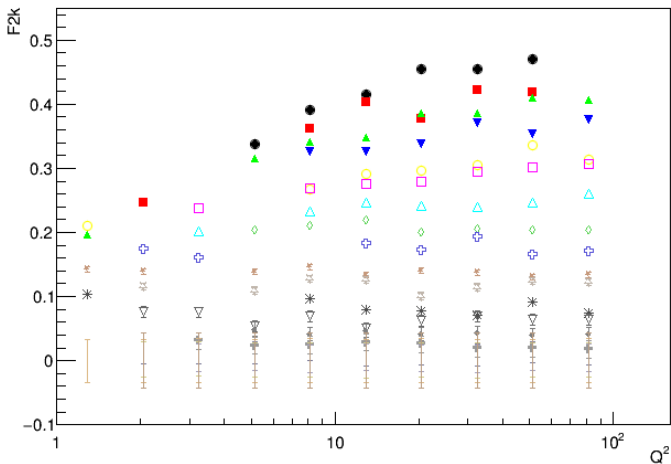
Your kinematics: [xBj_min:xBj_max] = [ 0.001000: 1.000000]
Your kinematics: [Q2_min:Q2_max] = [ 0.001000:1000.000000]
Incident Ion Mass  0.93827 GeV
Incident Electron, Ion Momenta:  10.0000,  100.00 GeV/c;  s_e = 3998.4689 GeV^2
0/1000
j=0 - x=1.29 - y=-nan(ind)
unc=0.00213513
j=1 - x=2.045 - y=-nan(ind)
unc=0.00213513
j=2 - x=3.245 - y=-nan(ind)
unc=0.00213513
j=3 - x=5.145 - y=-nan(ind)
unc=0.00213513
j=4 - x=8.155 - y=-nan(ind)
unc=0.00213513
j=5 - x=12.9 - y=0.246831
unc=0.00213513
j=6 - x=20.45 - y=0.241914
unc=0.00213513
j=7 - x=32.45 - y=-nan(ind)
unc=0.00213513
j=8 - x=51.45 - y=-nan(ind)
unc=0.00213513
j=9 - x=81.55 - y=0.260512
unc=0.00213513
Info in <TCanvas::Print>: png file Q2vsxBj.png has been created
Info in <TCanvas::Print>: png file Q2vsxBj2DHisto_PBeam100.00_kBeam10.00_Q2Max1000.00.png has been created
Total of 346 events out of 1000 Trials
(int)346
    
```

```

j=0 - x=1.29 - y=-nan(ind)
unc=0.00213513
j=1 - x=2.045 - y=-nan(ind)
unc=0.00213513
j=2 - x=3.245 - y=0.20236
unc=0.00213513
j=3 - x=5.145 - y=-nan(ind)
unc=0.00213513
j=4 - x=8.155 - y=0.232532
unc=0.00213513
j=5 - x=12.9 - y=0.246831
unc=0.00213513
j=6 - x=20.45 - y=0.241914
unc=0.00213513
j=7 - x=32.45 - y=0.239516
unc=0.00213513
j=8 - x=51.45 - y=0.246646
unc=0.00213513
j=9 - x=81.55 - y=0.260512
unc=0.00213513
Info in <TCanvas::Print>: png file Q2vsxBj.png has been created
Info in <TCanvas::Print>: png file Q2vsxBj2DHisto_PBeam100.00_kBeam10.00_Q2Max1000.00.png has been created
Total of 7148 events out of 21000 Trials
    
```

Q2vsx Bj Graph

- Still have missing y points despite large number of event trials (35000)
 - Possibly because only 7,148/21,000 are events
 - Future: try 50,000+ events
- Error bars are computed despite invalid y-values
 - Issue with code?
- Error bars are too small to be graphically depicted
 - If lum (10e-16) is added to uncertainty calculations, will be even smaller
 - Correct calculation?



```

j=0 - x=1.29 - y=-nan(ind)
unc=0.00213513
j=1 - x=2.045 - y=-nan(ind)
unc=0.00213513
j=2 - x=3.245 - y=0.20236
unc=0.00213513
j=3 - x=5.145 - y=-nan(ind)
unc=0.00213513
j=4 - x=8.155 - y=0.232532
unc=0.00213513
j=5 - x=12.9 - y=0.246831
unc=0.00213513
j=6 - x=20.45 - y=0.241914
unc=0.00213513
j=7 - x=32.45 - y=0.239516
unc=0.00213513
j=8 - x=51.45 - y=0.246646
unc=0.00213513
j=9 - x=81.55 - y=0.260512
unc=0.00213513
    
```

For i=6 (pink square markers)

```

Info in <TCanvas::Print>: png file Q2vsxBj.png has been created
Info in <TCanvas::Print>: png file Q2vsxBj2DHisto_PBeam100.00_kBeam10.00_Q2Max1000.00.png has been created
Total of 7148 events out of 21000 Trials
    
```