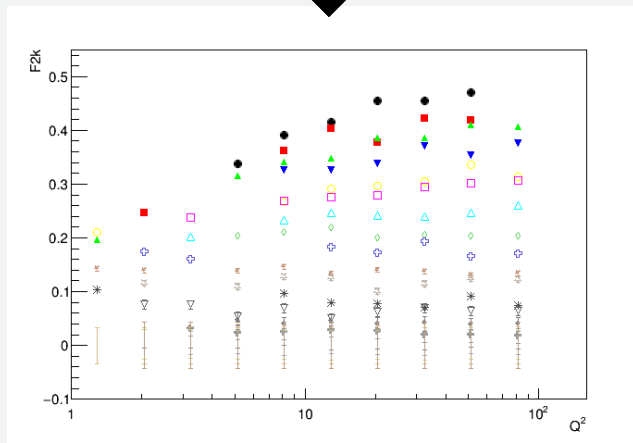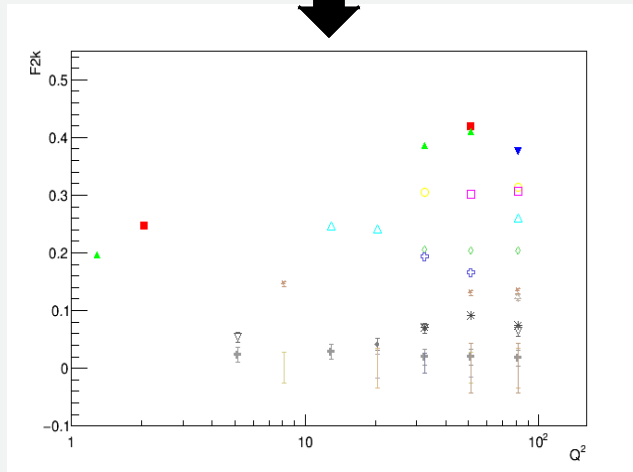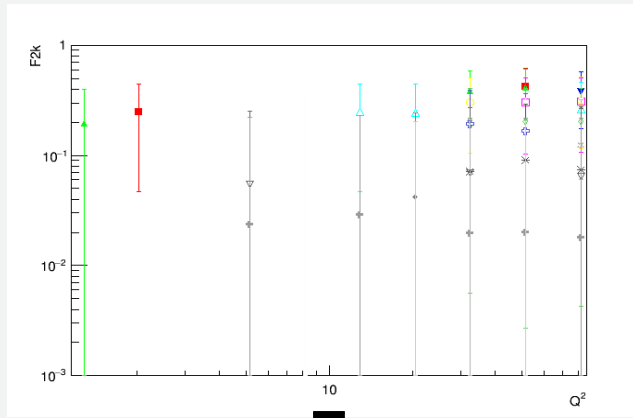# WEEK 2 PROGRESS

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

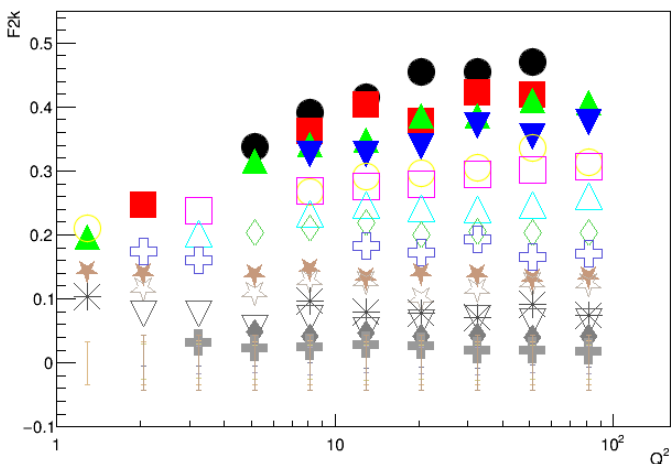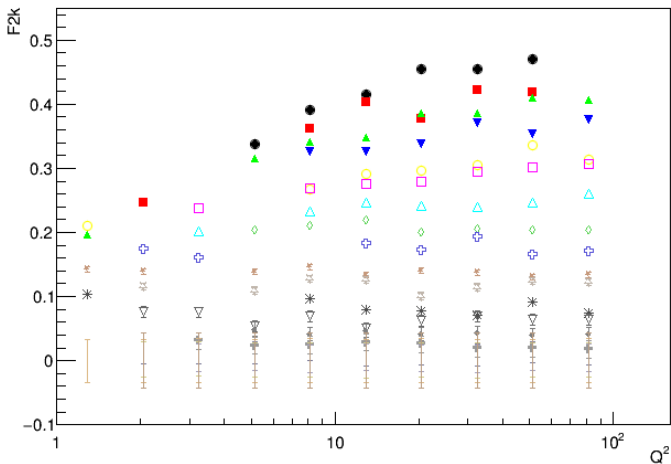 – Increasing number of Nevts (in TDISMC_EICK.h) 1000->21000

Q2vsxbj 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
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
```

For i=6 (pink square markers)