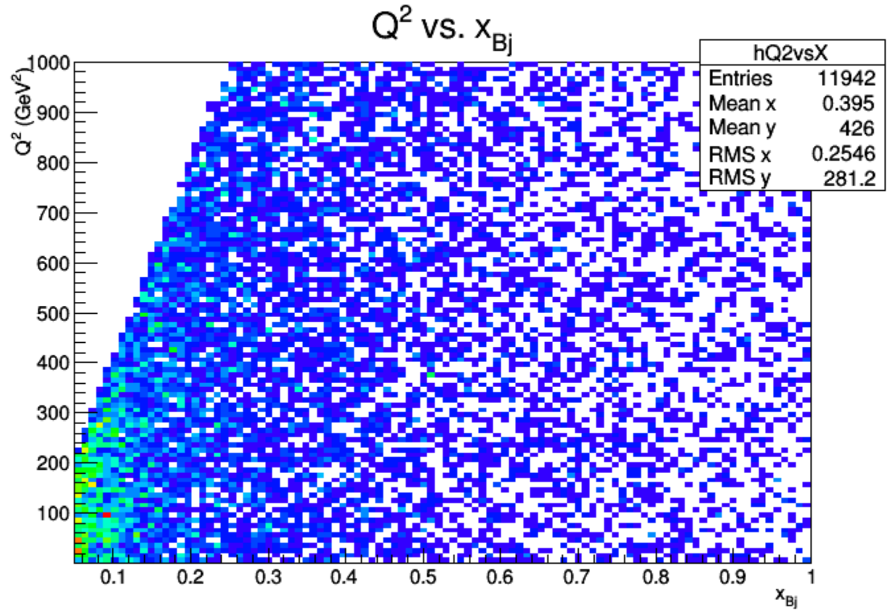
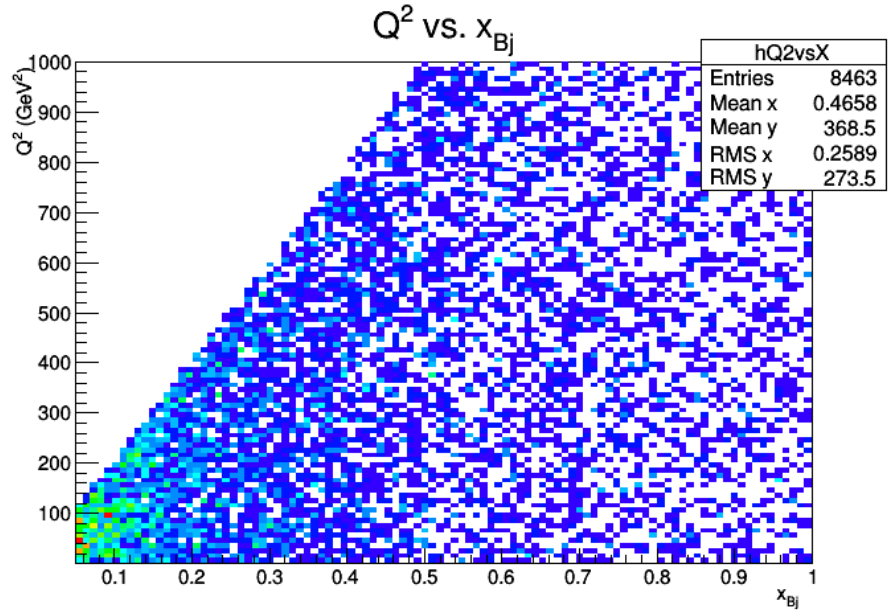
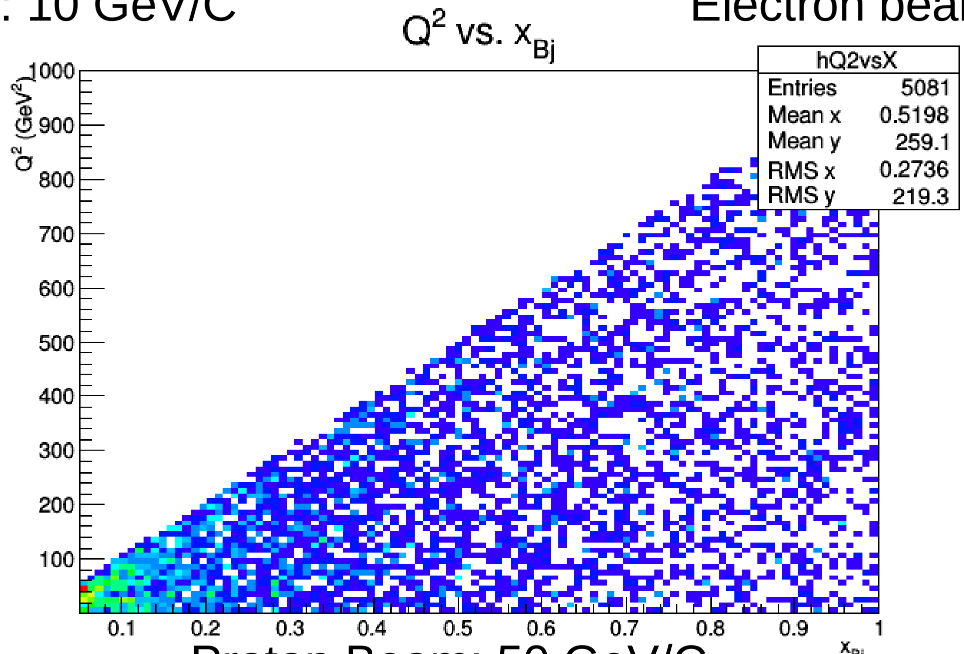
From Kinjun Simulations, we were testing different kinematics (for kaons)



Proton Beam: 100 GeV/C
Electron beam: 10 GeV/C

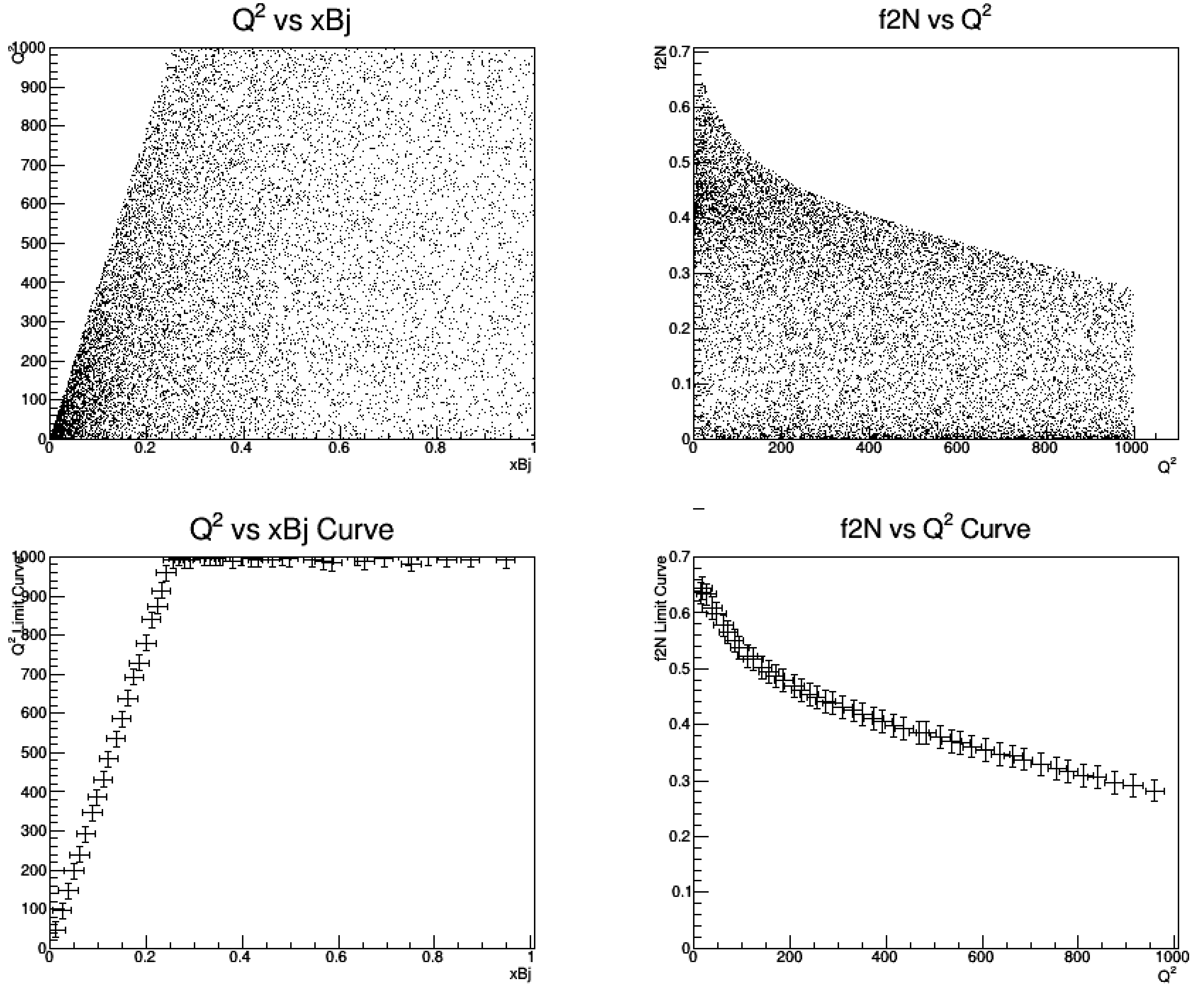


Proton Beam: 100 GeV/C
Electron beam: 5 GeV/C



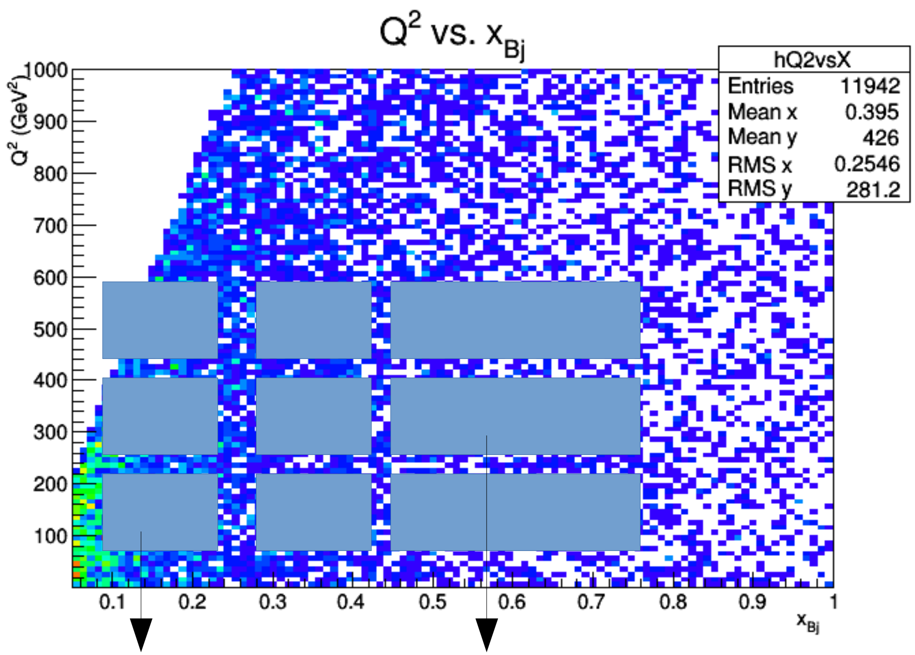
Proton Beam: 50 GeV/C
Electron beam: 5 GeV/C

Then, I wrote a function to get the limit separation between allowed and forbidden region...



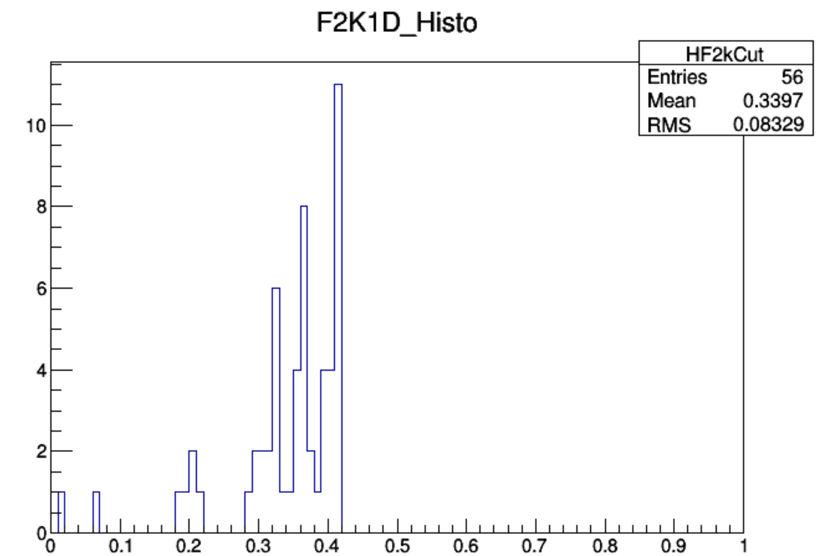
But… It turned out not being so useful...

Now… The idea is to make different cuts and to get the F2K value for every event in each cut..

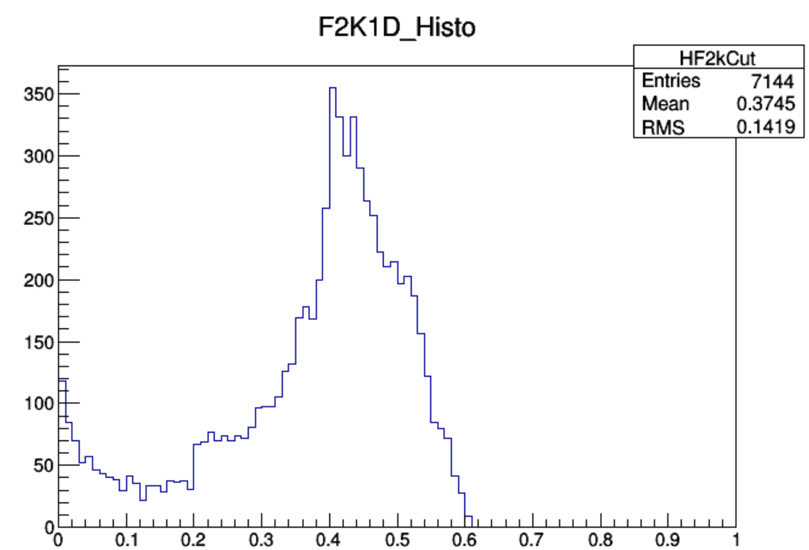


These boxes are just graphical representations of the applied cuts (size do not math the cuts being applied)

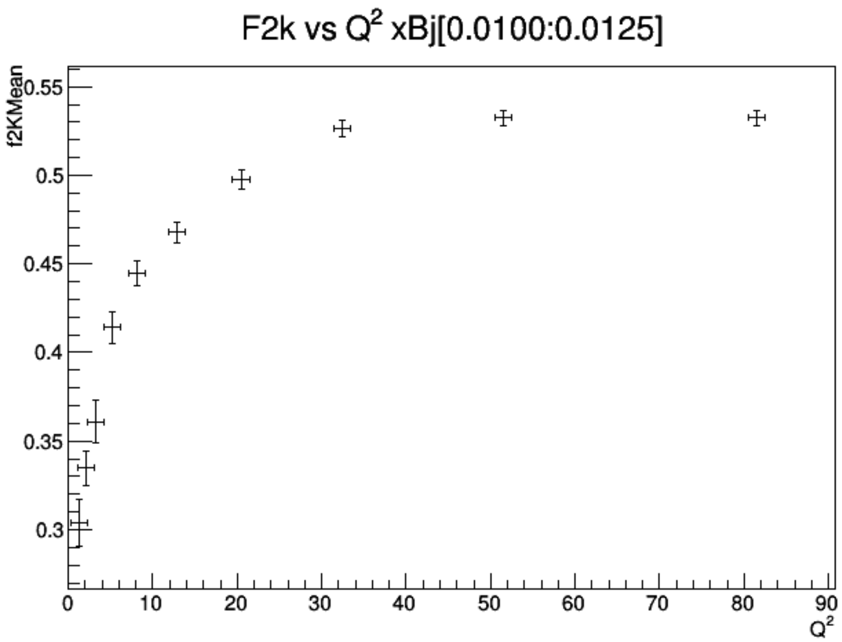
Q^2 Cut [1.580:2.510] X Cut [0.010:0.013]

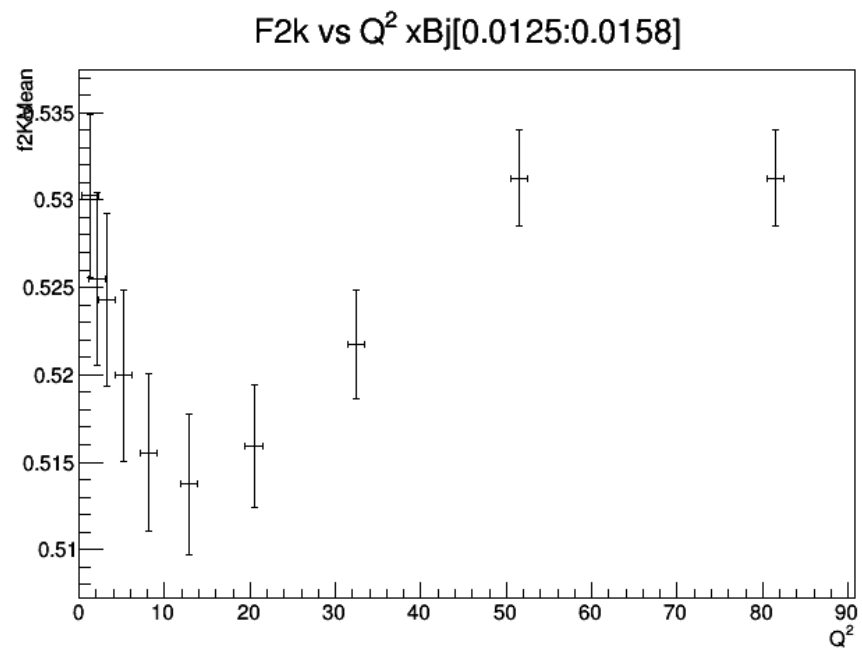


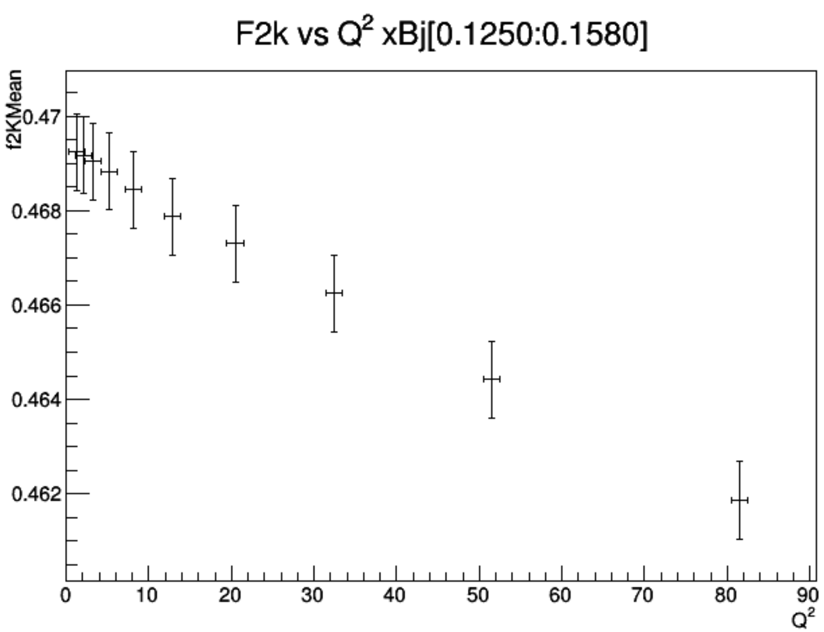
Q^2 Cut [63.100:100] X Cut [0.316:9,398]



Now, for each cut, we get the mean value of F2K.. and with these values we make a plot as a function of Q^2 (For each X-Cut)...







In these cases, the horizontal error bars are fixed (we need to fix them) and the vertical error bars are just the error propagated in taking the mean value TH1D::GetErrorMean()

However, physics' constrains needs to be included in computing the error bars! That's the final goal!