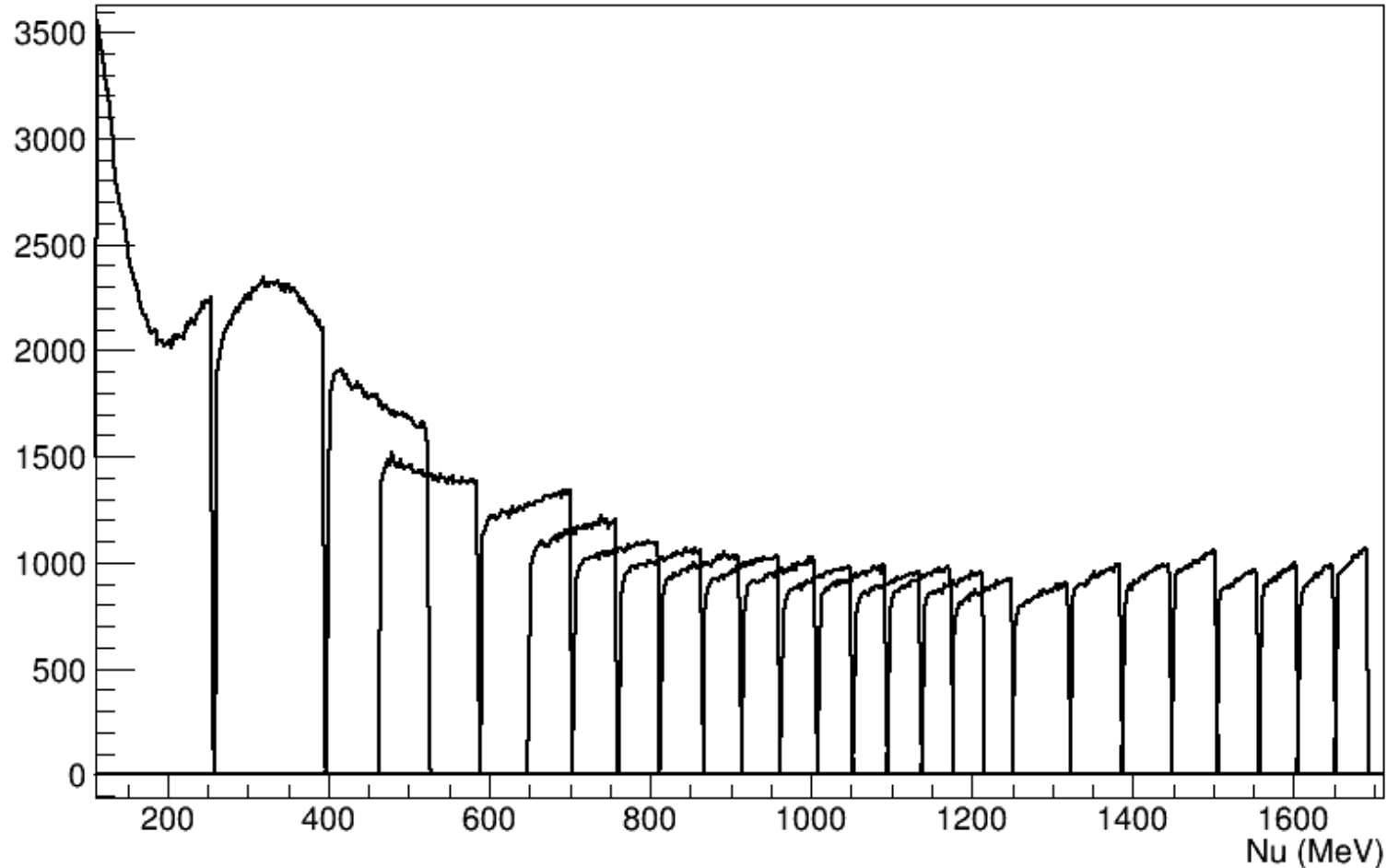


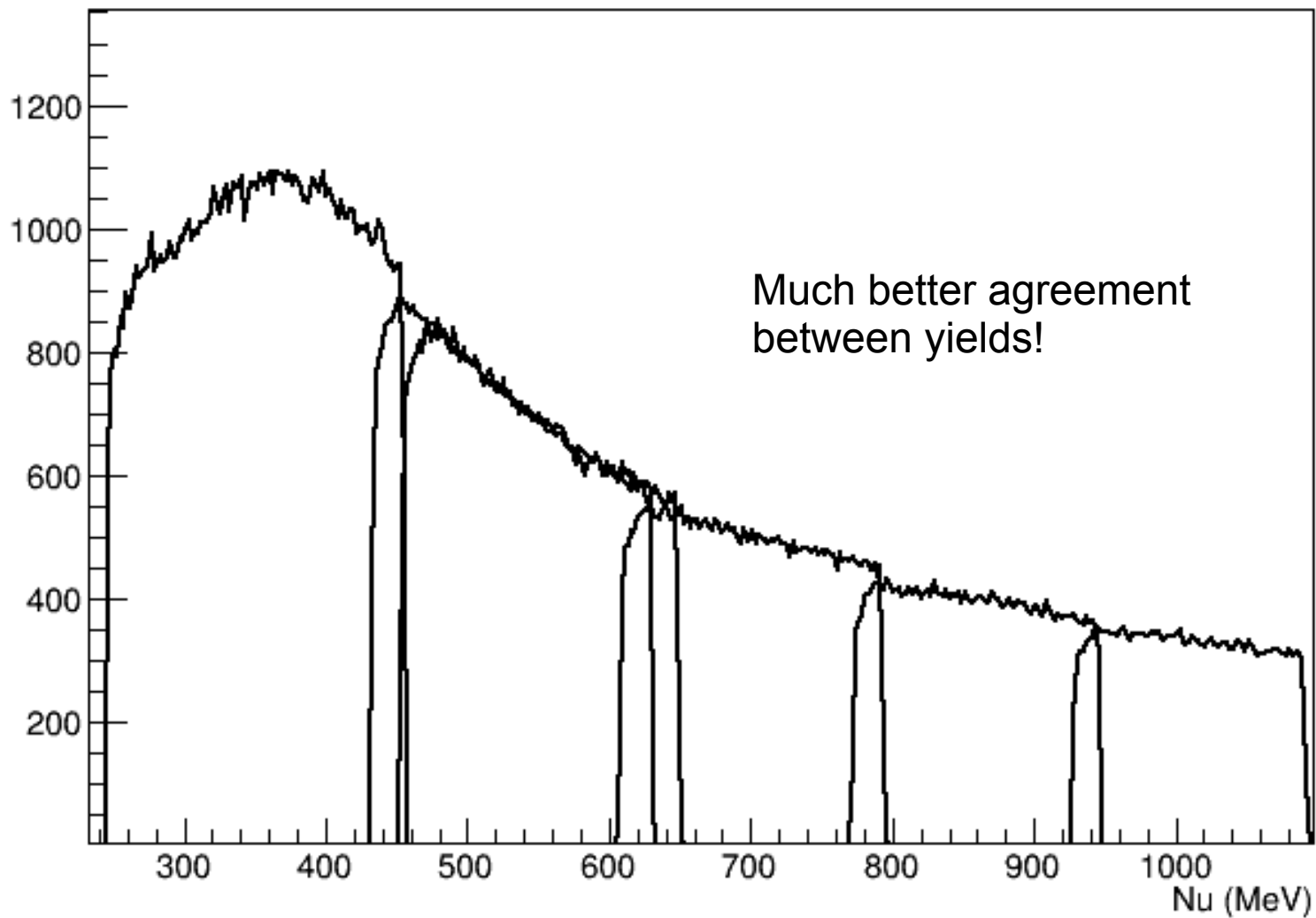
Dilution Update
04/30/14

2.254GeV Carbon Dilution

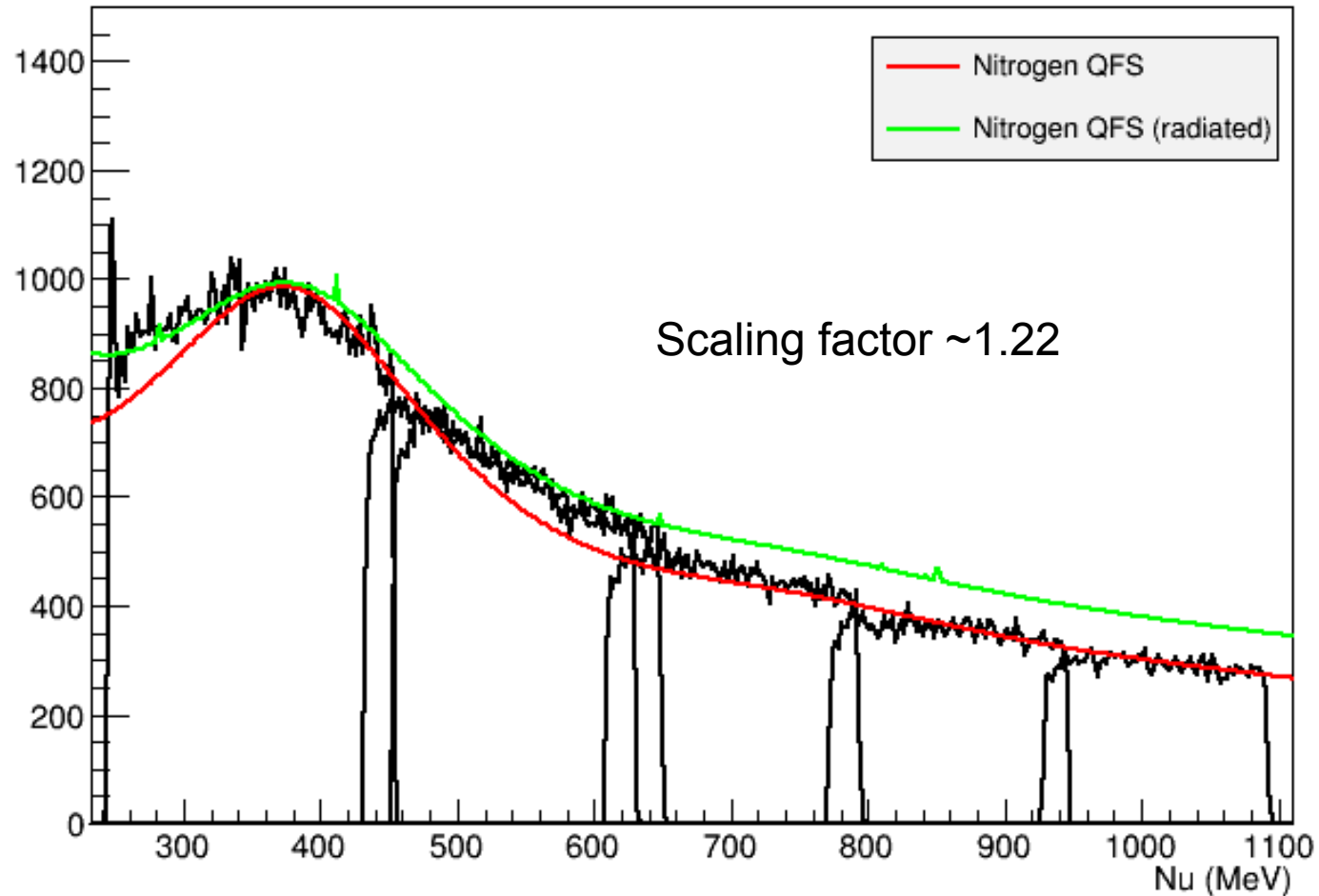


- Normalized yields between p0 settings at 2.254GeV do not match well for any dilution/production targets.
- Optics work still needs to be done to 'flatten' distributions.
- For now I am looking at 3.350GeV data and will address these issues once results are obtained at higher Q2 kinematics.

3.350GeV Carbon Dilution

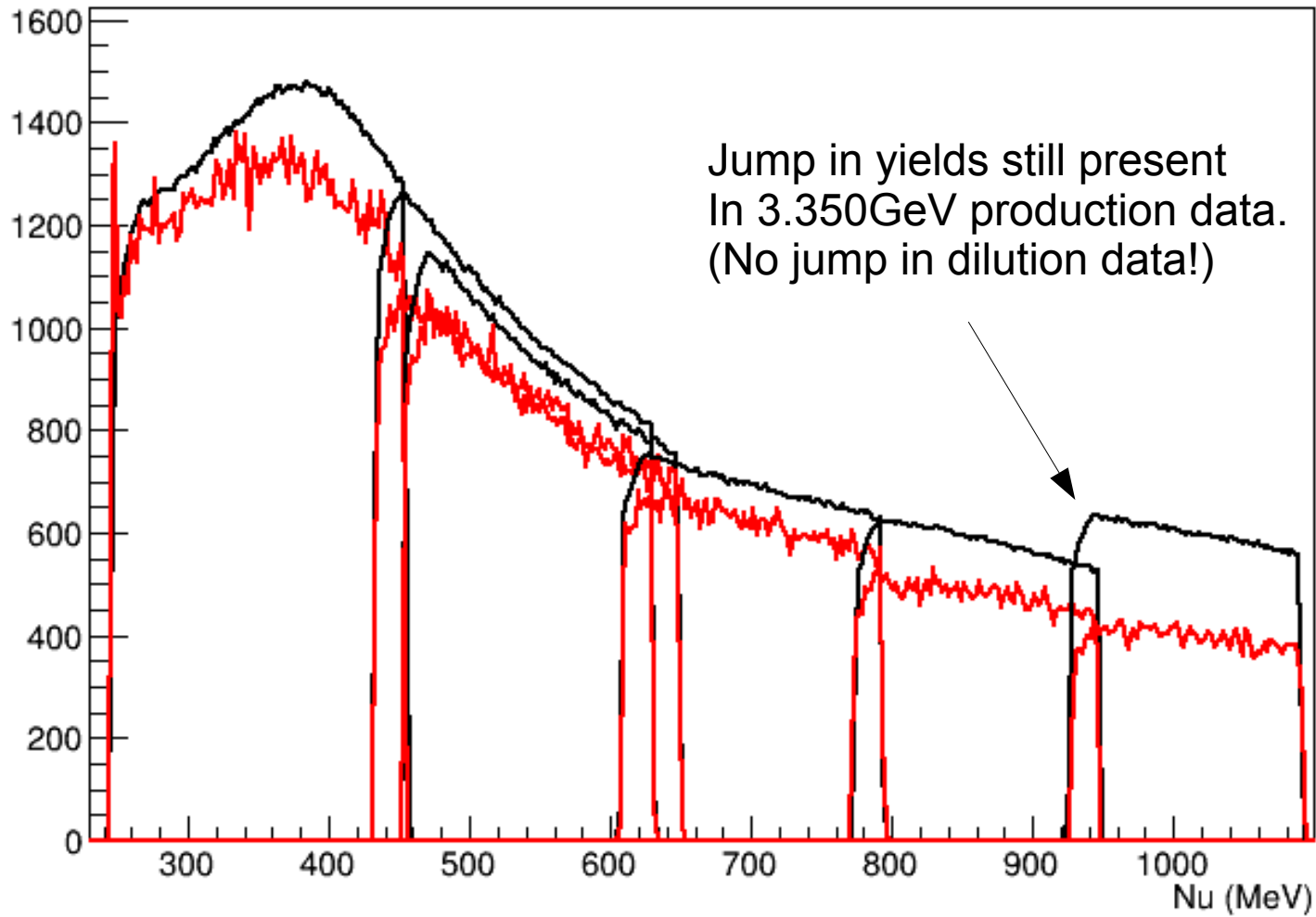


3.350GeV Calculated Nitrogen Background

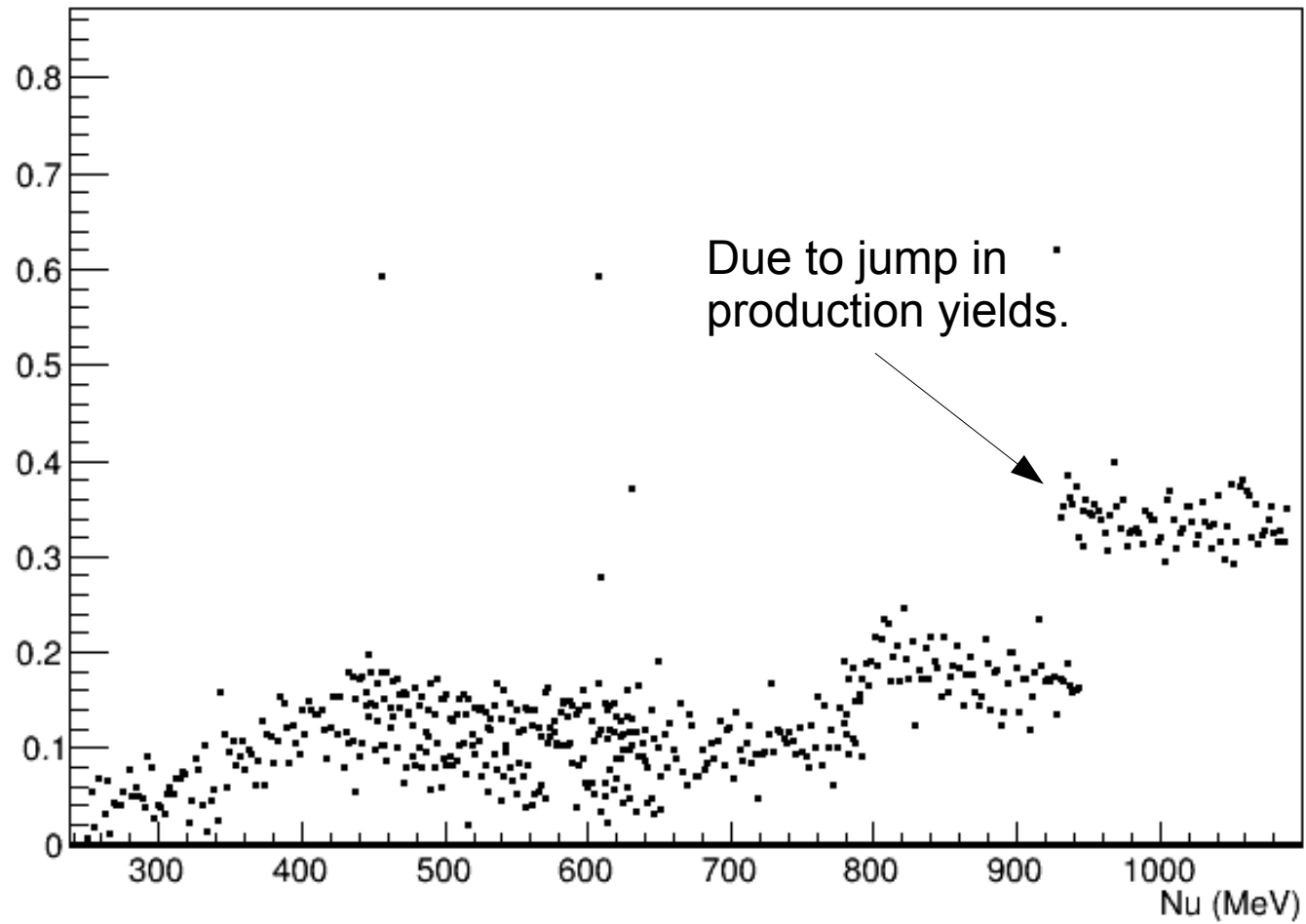


- Large disagreement with radiated QFS model and data at high low P_0 .
- Still working on radiating P.Bosted QE simulation for comparison to QFS (and data).
- Currently matching QFS to Carbon dilution data at the delta to obtain the Nitrogen scaling factor.

3.350GeV Calculated Background and Production



3.350GeV Dilution



To Do

- Run P.Bosted radiated QE simulation as a comparison to QFS.
- Work on mismatched normalized yields problem (suggestions from meeting?)
- Finalize (fix binning) 3.3GeV results and move to next kinematic setting (2.2GeV 5T).