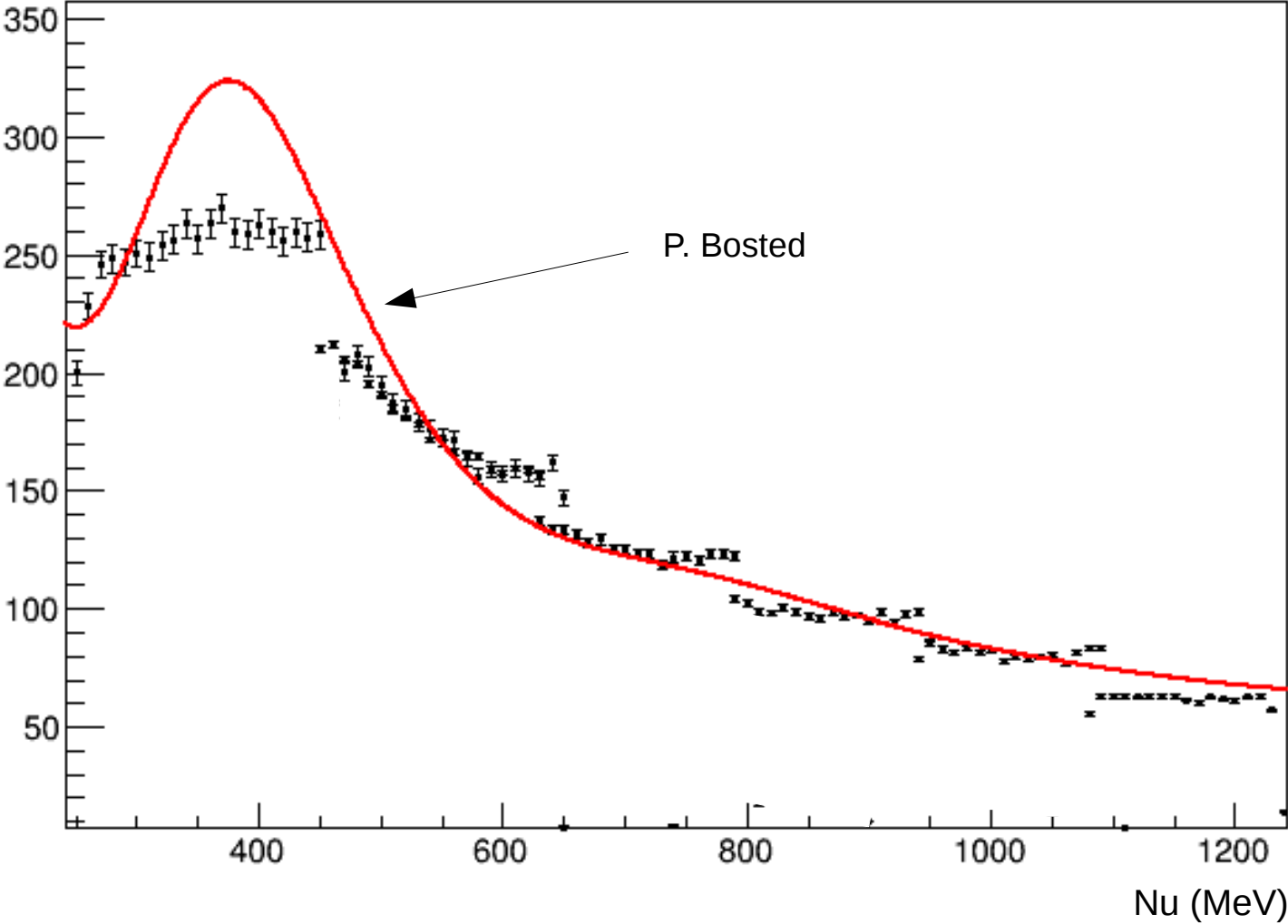


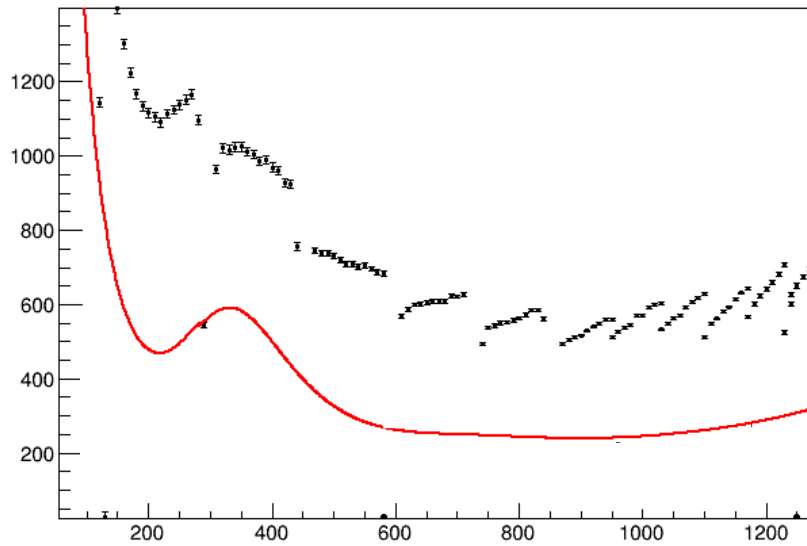
Dilution Analysis Update

7/30/14

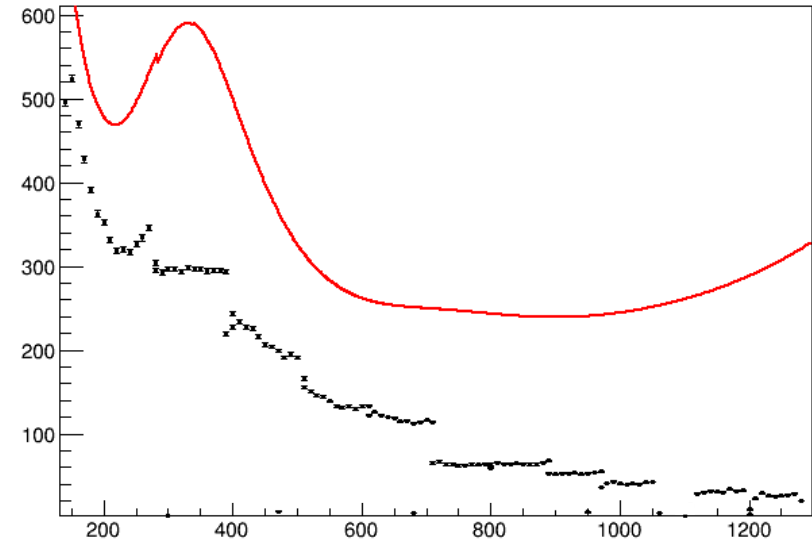
3.350 GeV Carbon, acc=2.6e-10



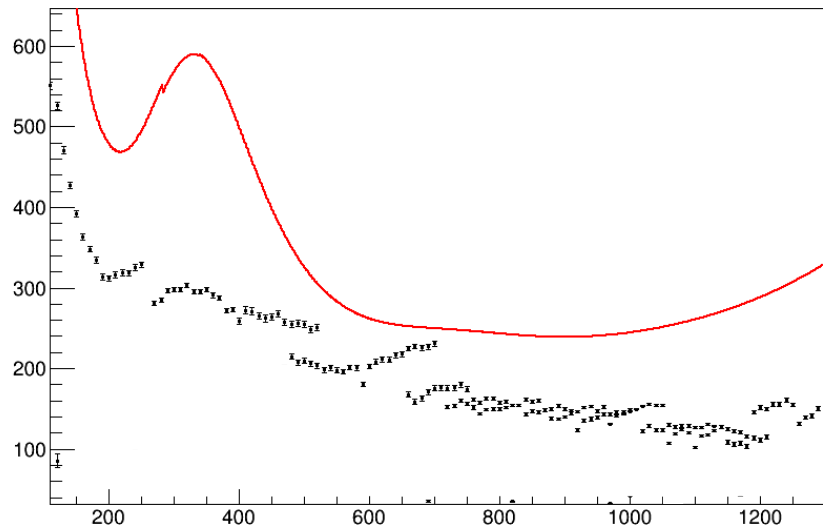
2.254 GeV 5T Longitudinal Carbon, acc=2.6e-10



2.254 GeV 5T Transverse Carbon, acc=2.6e-10

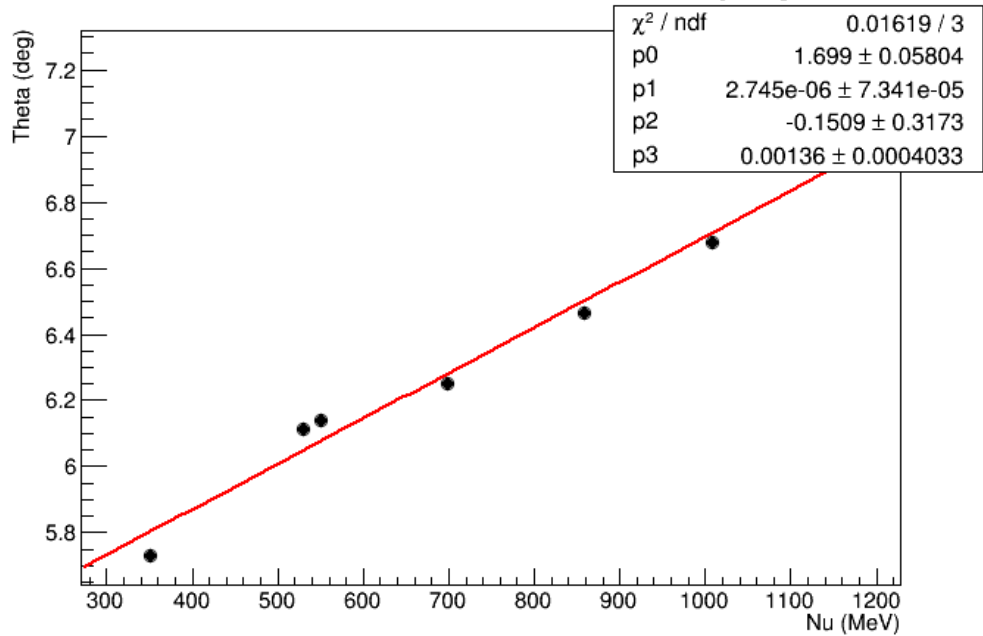


2.254 GeV 2.5T Carbon, acc=2.6e-10

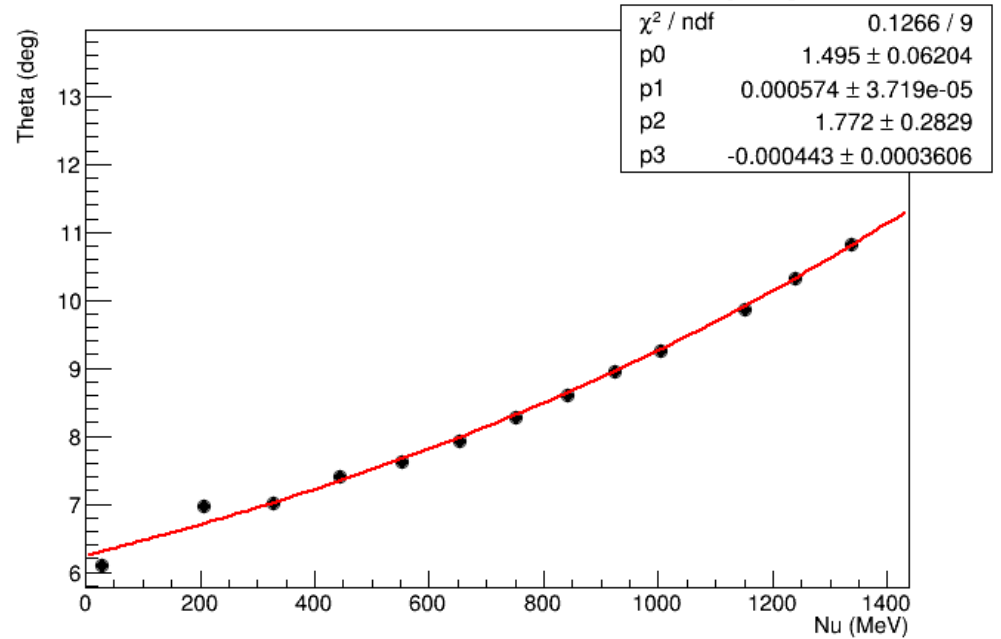


- Acceptance changes for each beam energy setting due to scattering angle difference.
- Scattering angle will also depend on Nu, so need to find a momentum dependant acceptance.

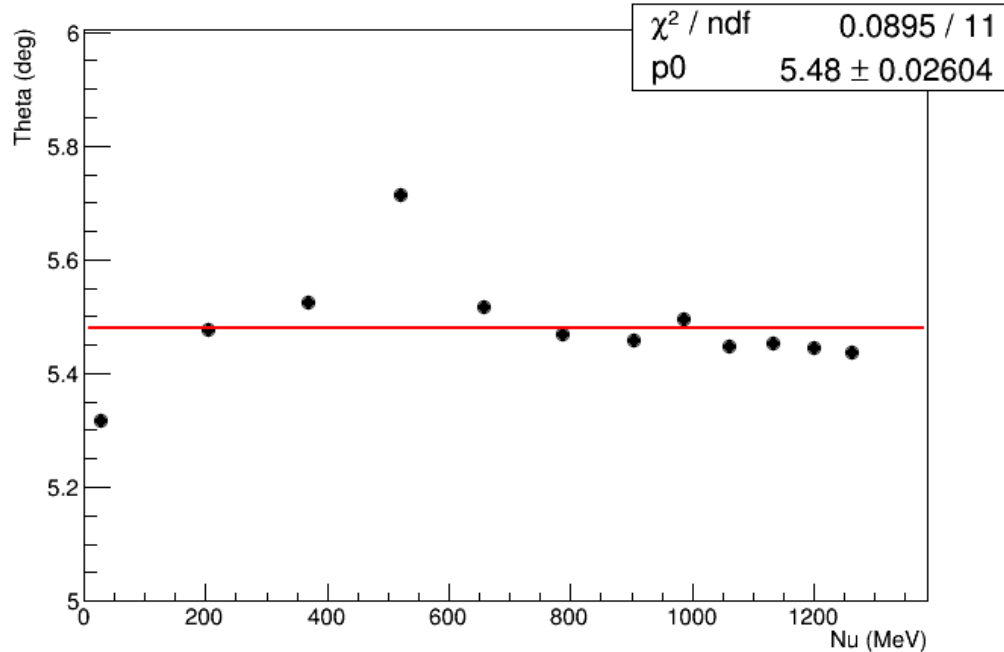
3350 MeV 5T transverse Central Scattering Angle



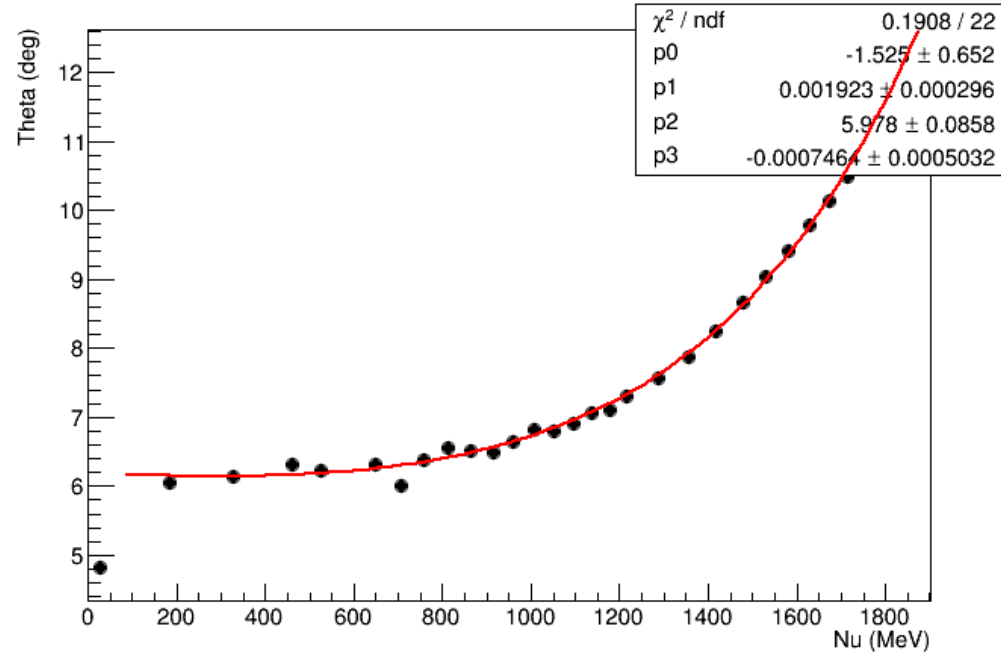
2254 MeV 5T transverse Central Scattering Angle



2254 MeV 5T longitudinal Central Scattering Angle



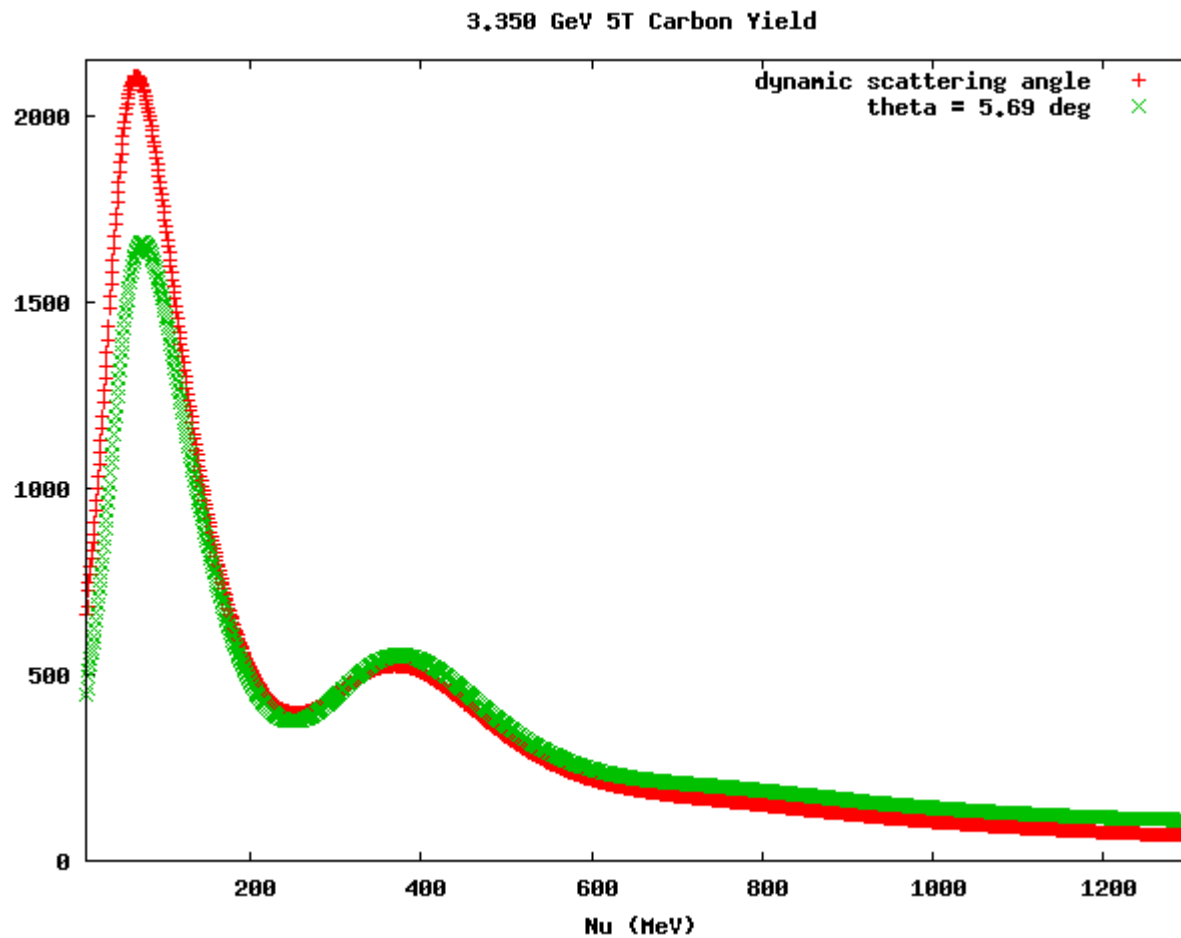
2254 MeV 2.5T transverse Central Scattering Angle



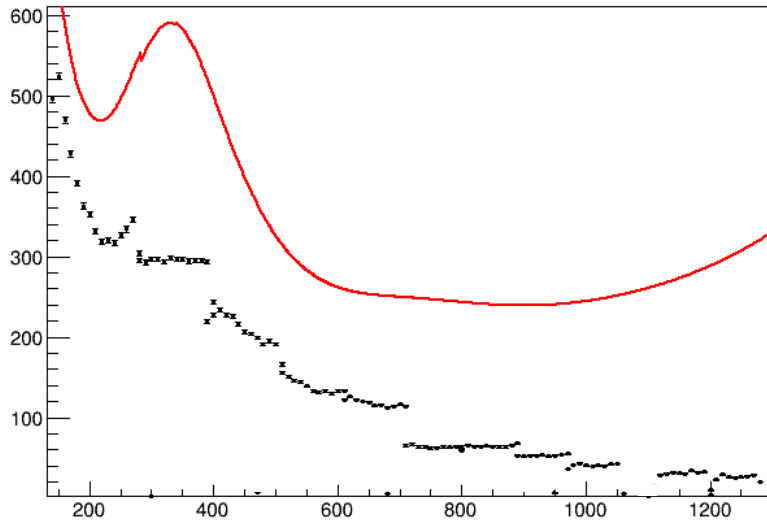
Using the following fit to scattering angle data

$$f(x) = e^{p_0 + p_1 x} + p_2 + p_3 x \quad (\text{Jixie elog entry 49})$$

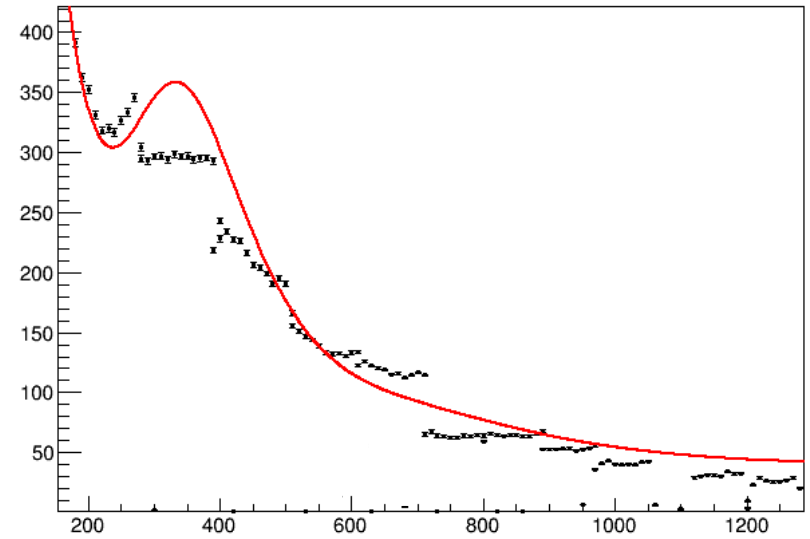
parameters from fit can be used to calculate scattering angle at each momentum value in P.Bosted model.



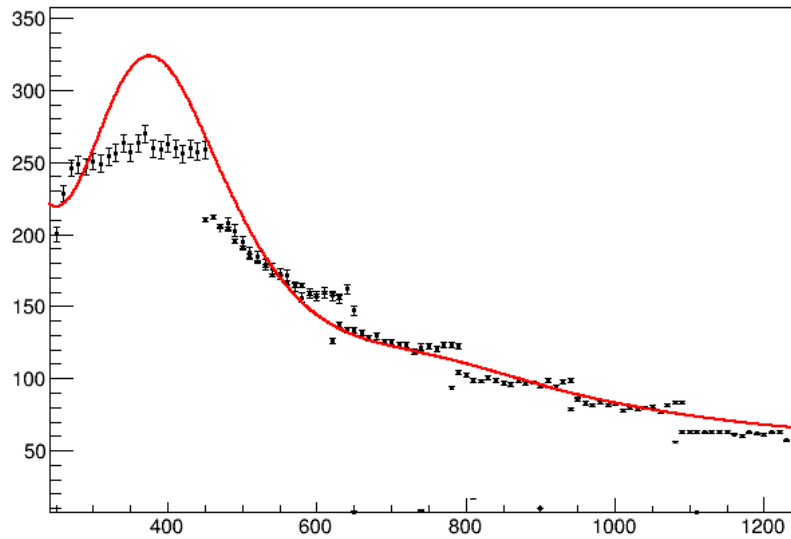
2.254 GeV 5T Transverse Carbon, acc=2.6e-10



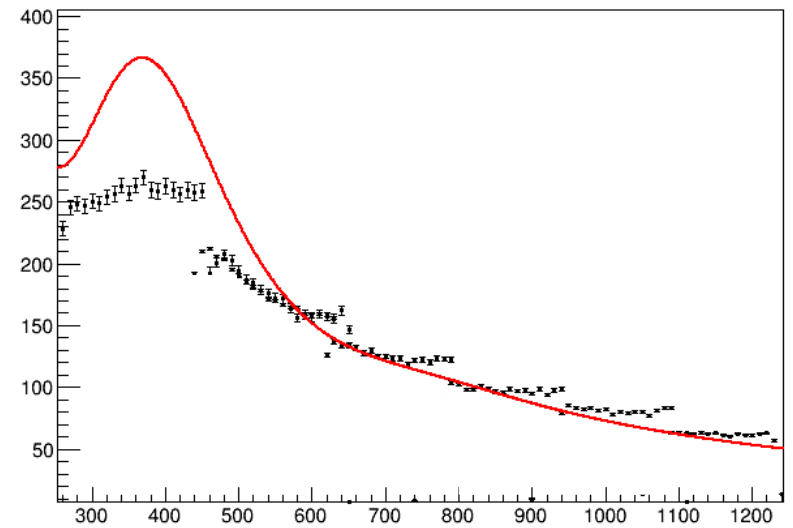
2.254 GeV 5T transverse Carbon, acc=3.1e-10



3.350 GeV Carbon, acc=2.6e-10



3.350 GeV 5T Carbon, acc=3.1e-10



-Need to look at other settings/materials, but looks promising!
-There still seems to be an issue with a suppressed delta at all settings.