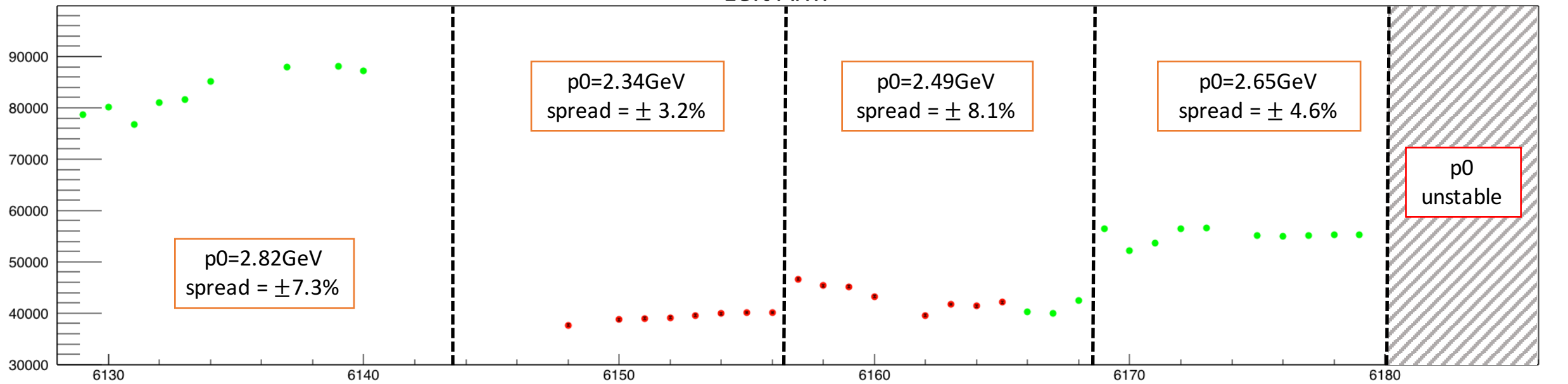


3.350 GeV Dilutions (and issues)

Toby Badman

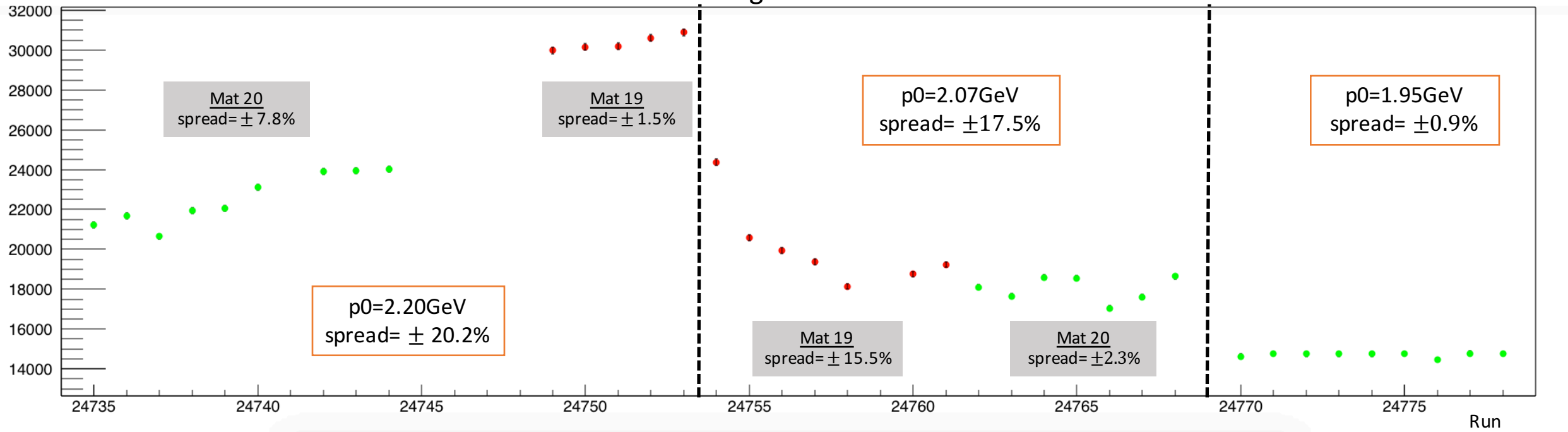
March 1, 2017

Left Arm



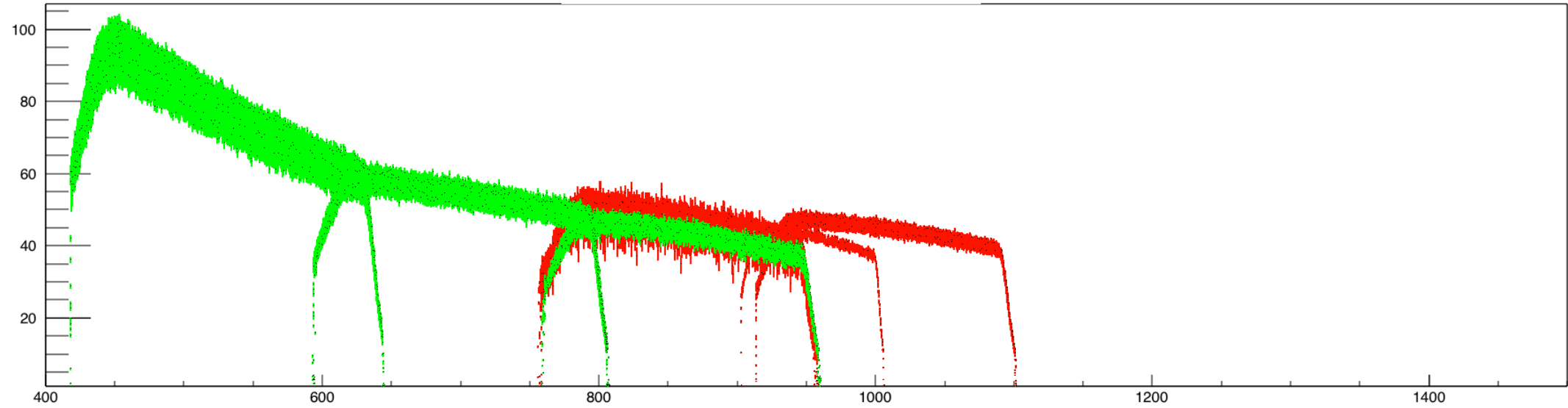
● Mat 19
● Mat 20

Right Arm

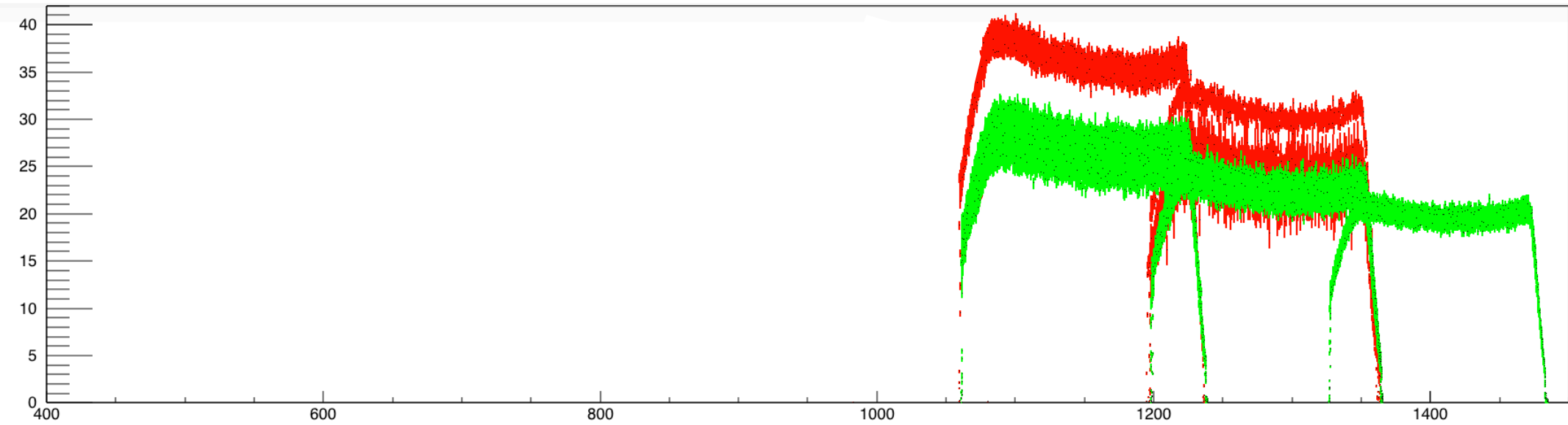


Run

Left Arm



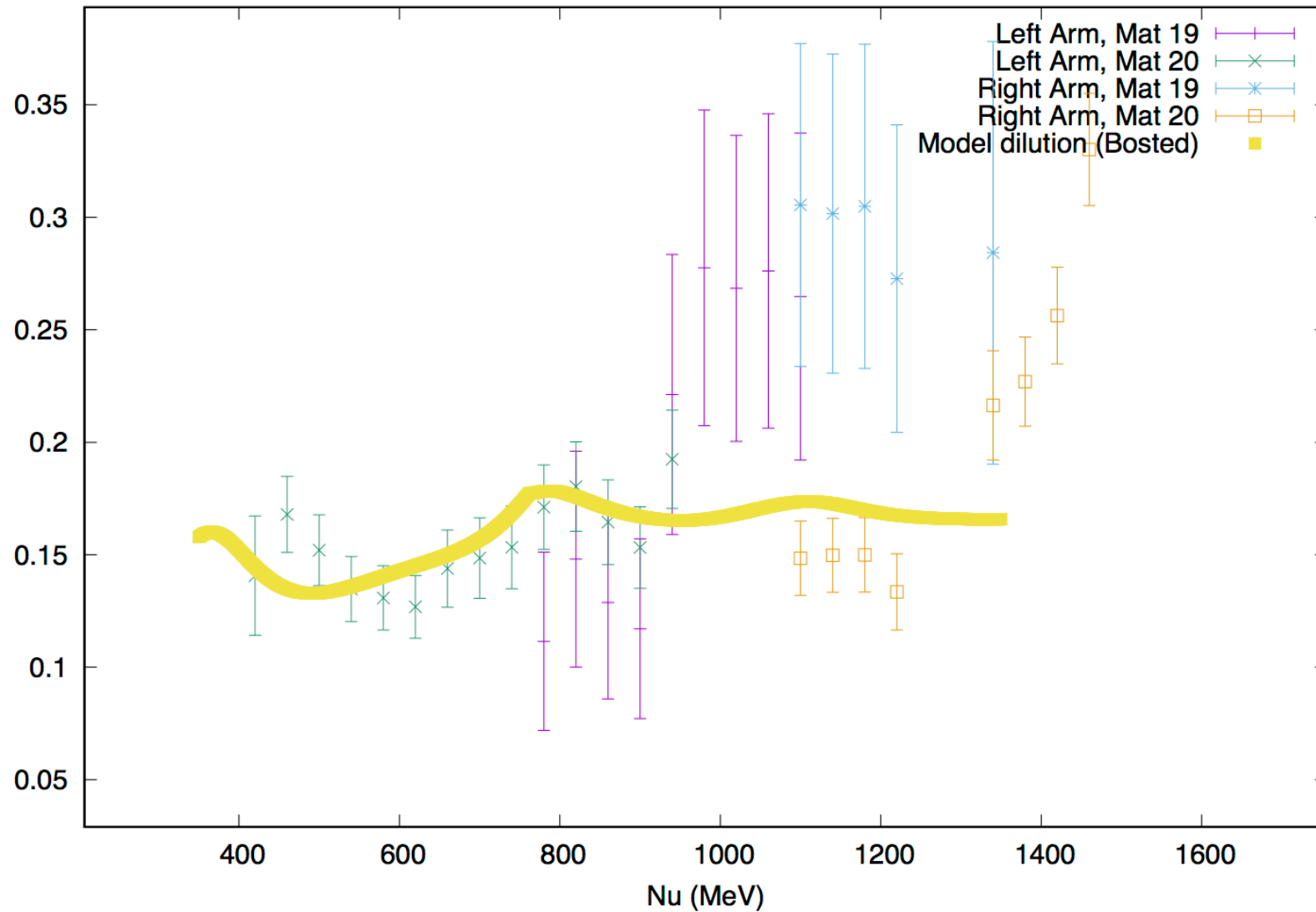
Right Arm



● Mat 19
● Mat 20

Nu (MeV)

3.350 GeV Dilution



*Does not include systematic from spread in yields

Summary

- Left arm, material 20 may be useable but will have a large uncertainty (an additional $\sim 7\%$ on top of the other systematics). Total systematic will be around 15%.
- Right arm materials 19/20 and Left arm material 19 have poor agreements and large variance from yield drifts. If they are included the dilution systematics will have an additional $\sim 20\%$ (total will be around 30%).
- Probably reasonable to just use a model at this large of a Q^2 setting.
- Even with a model dilution asymmetries may be affected by problems at this setting (since we don't know what is causing the yield drifts).
- Working on generating asymmetries with dilutions and systematics from data for the 2.2GeV 5T transverse/longitudinal settings for now.