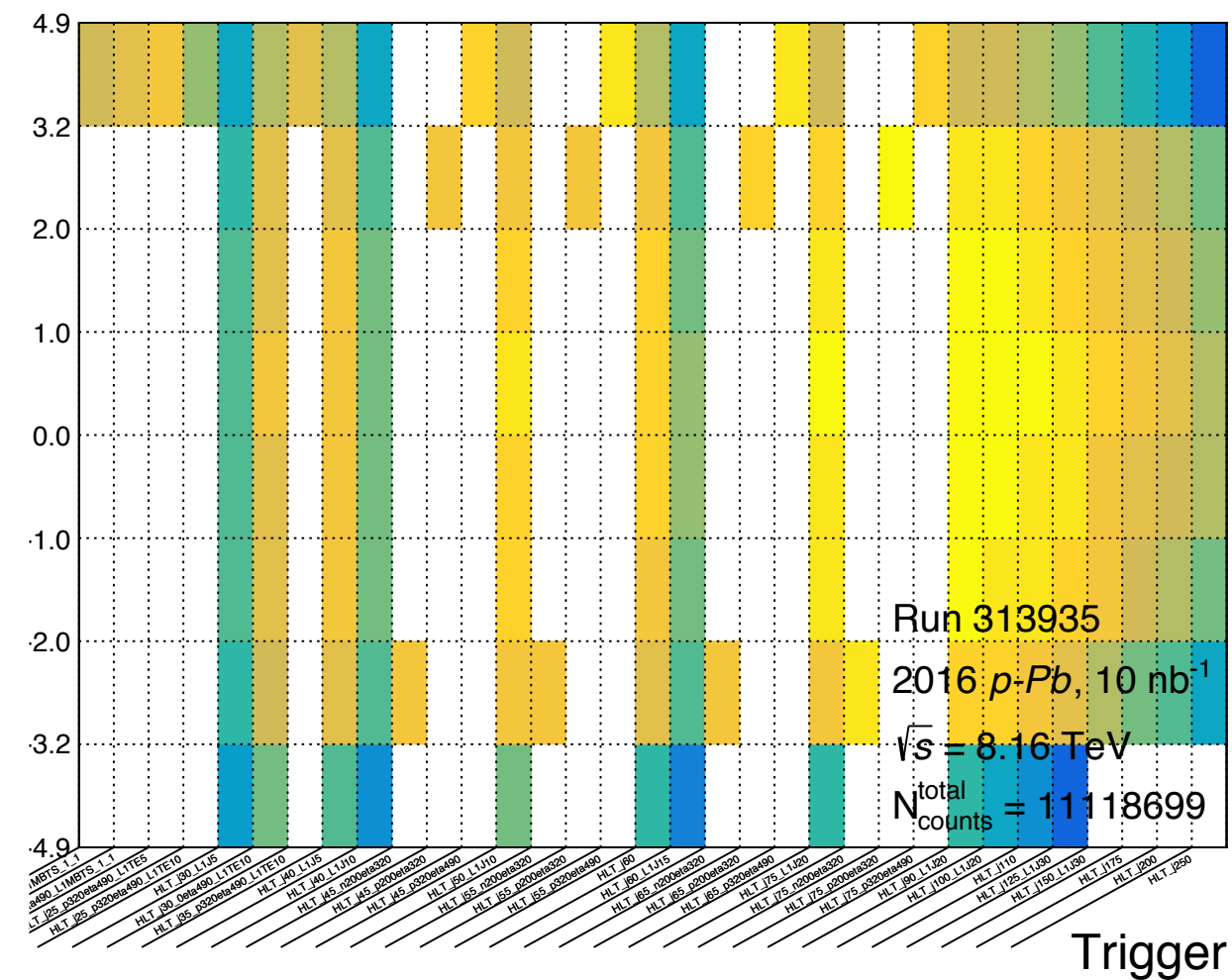
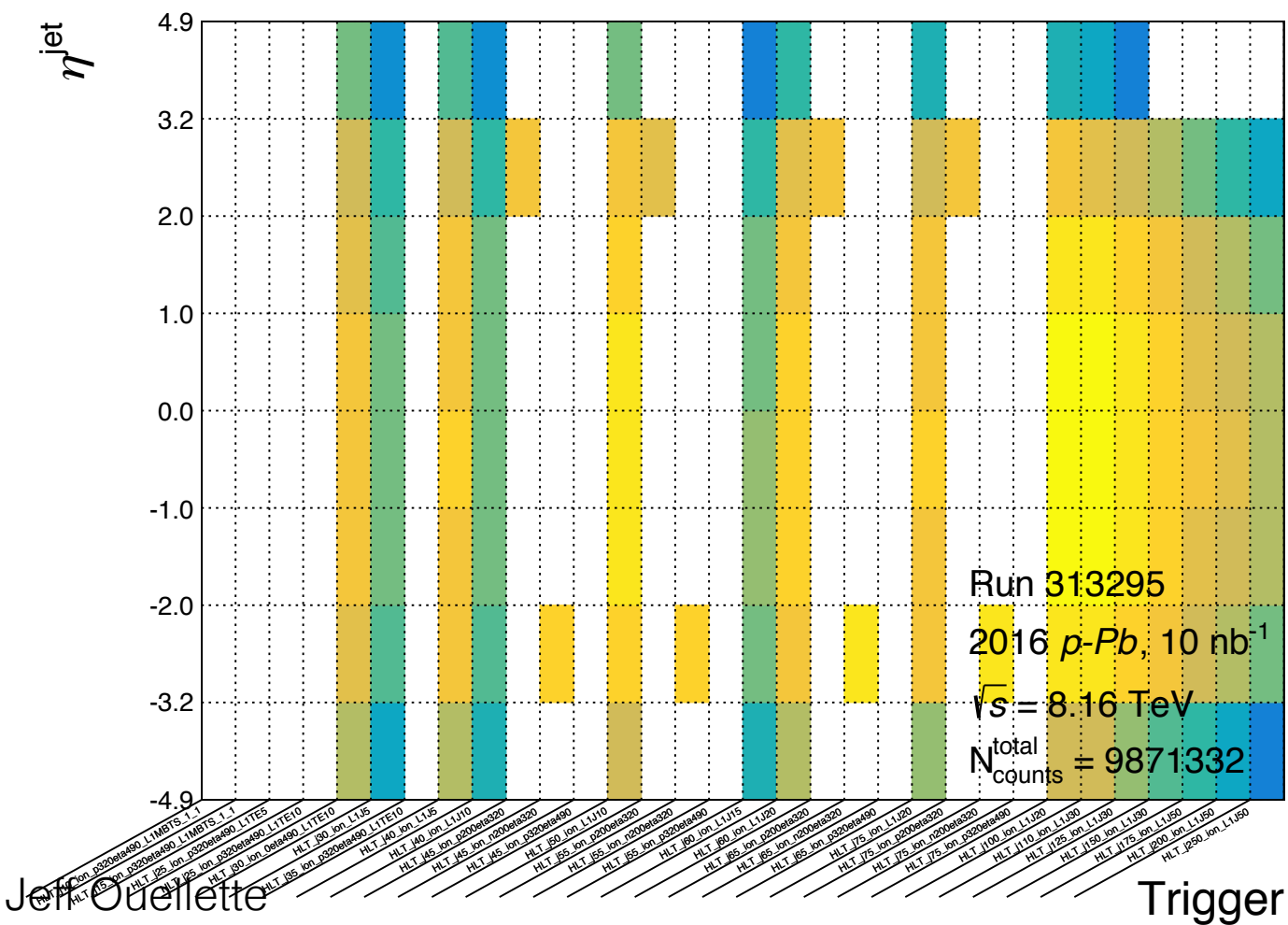
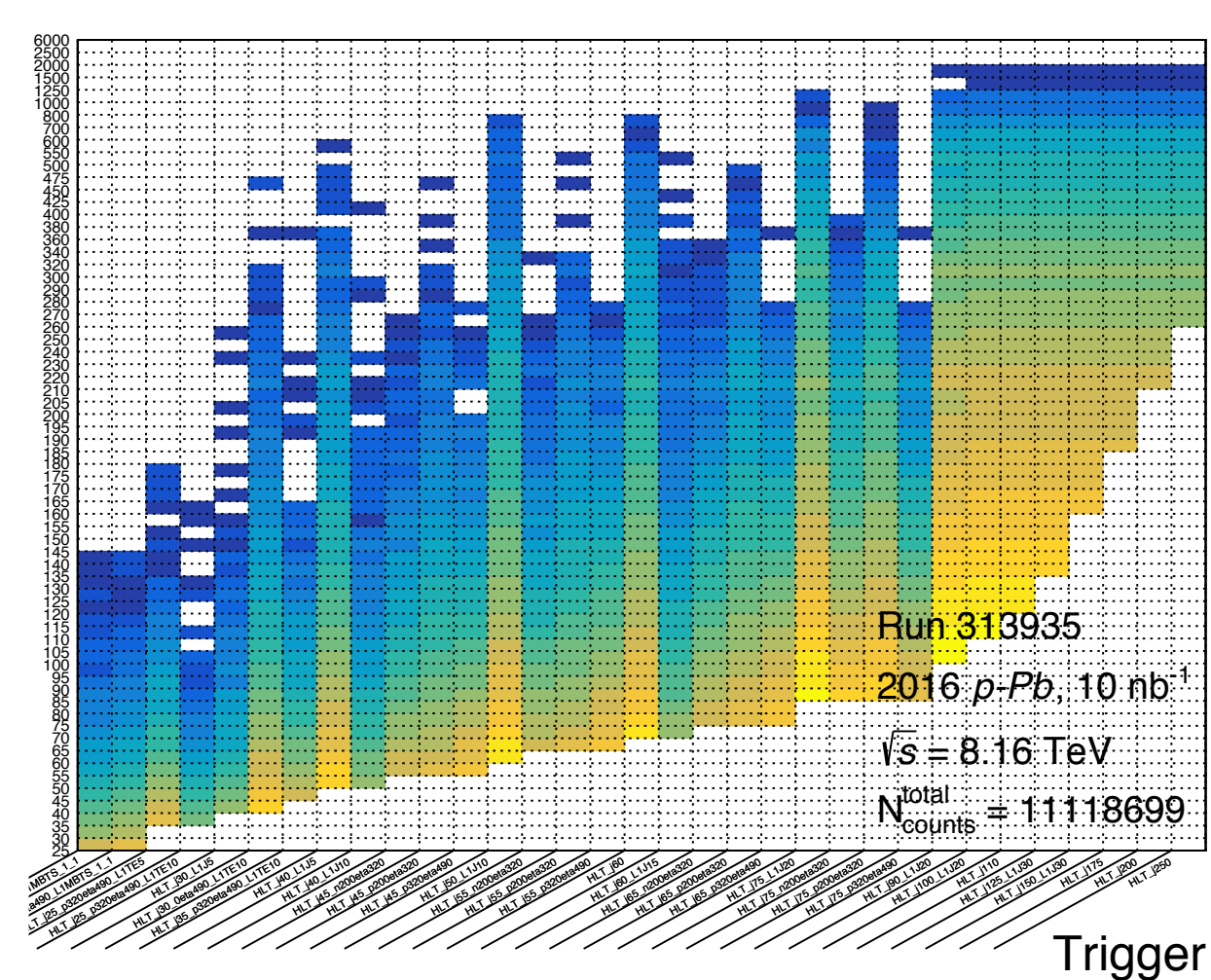
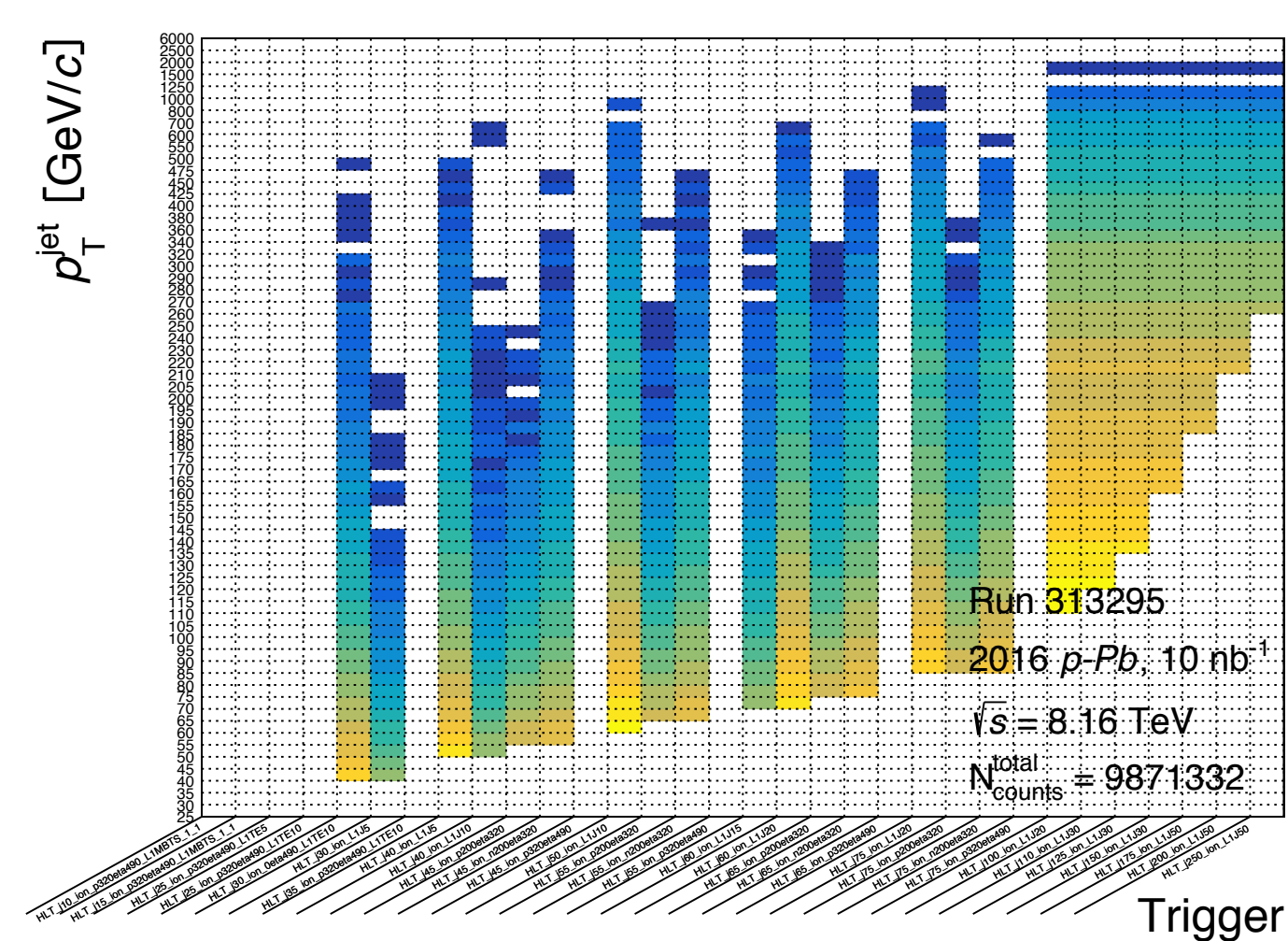


Inclusive jets in p - Pb and measuring Bjorken x distributions

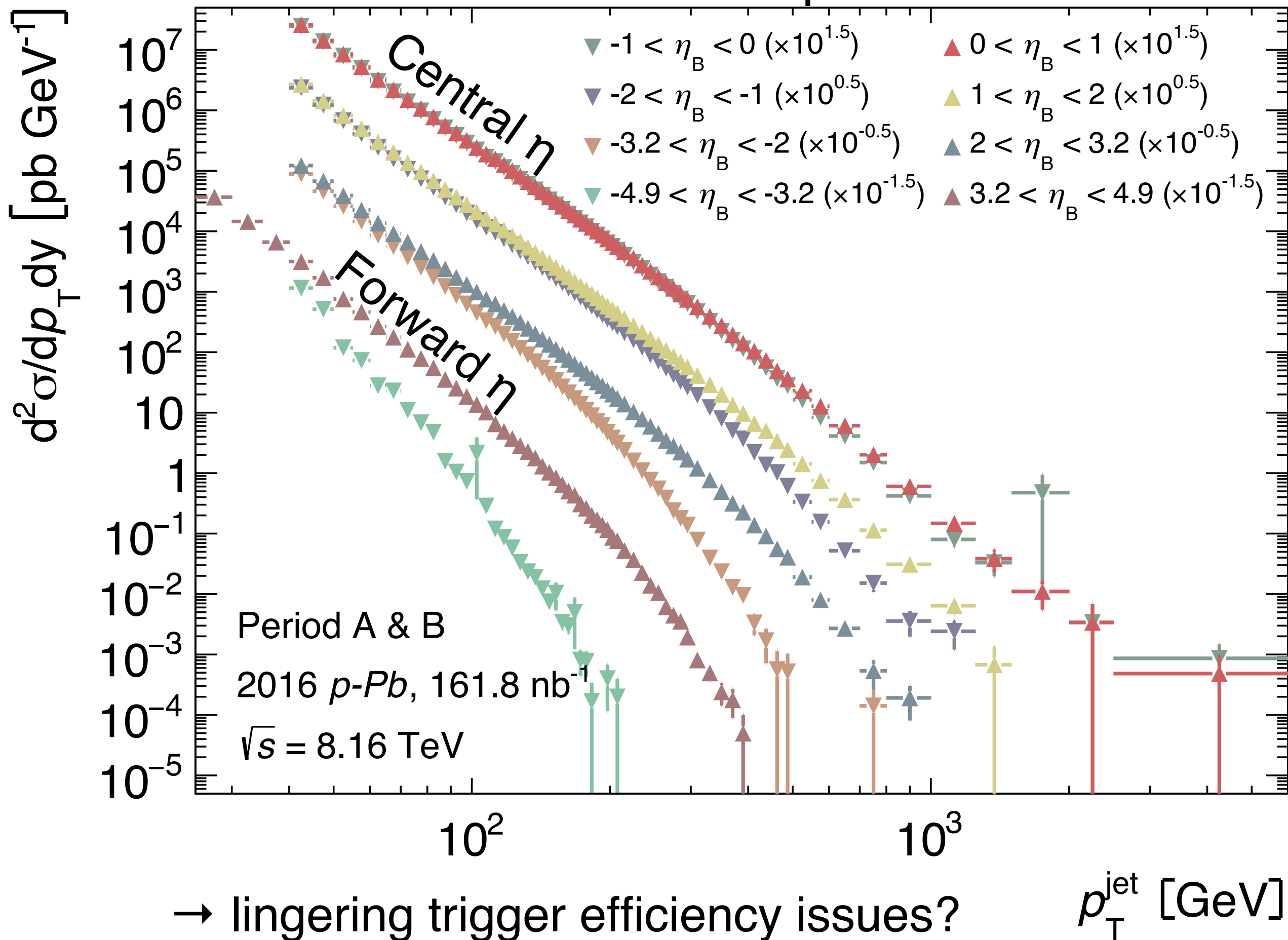
Jeff Ouellette, CU Boulder
12/18/2017

Last Time

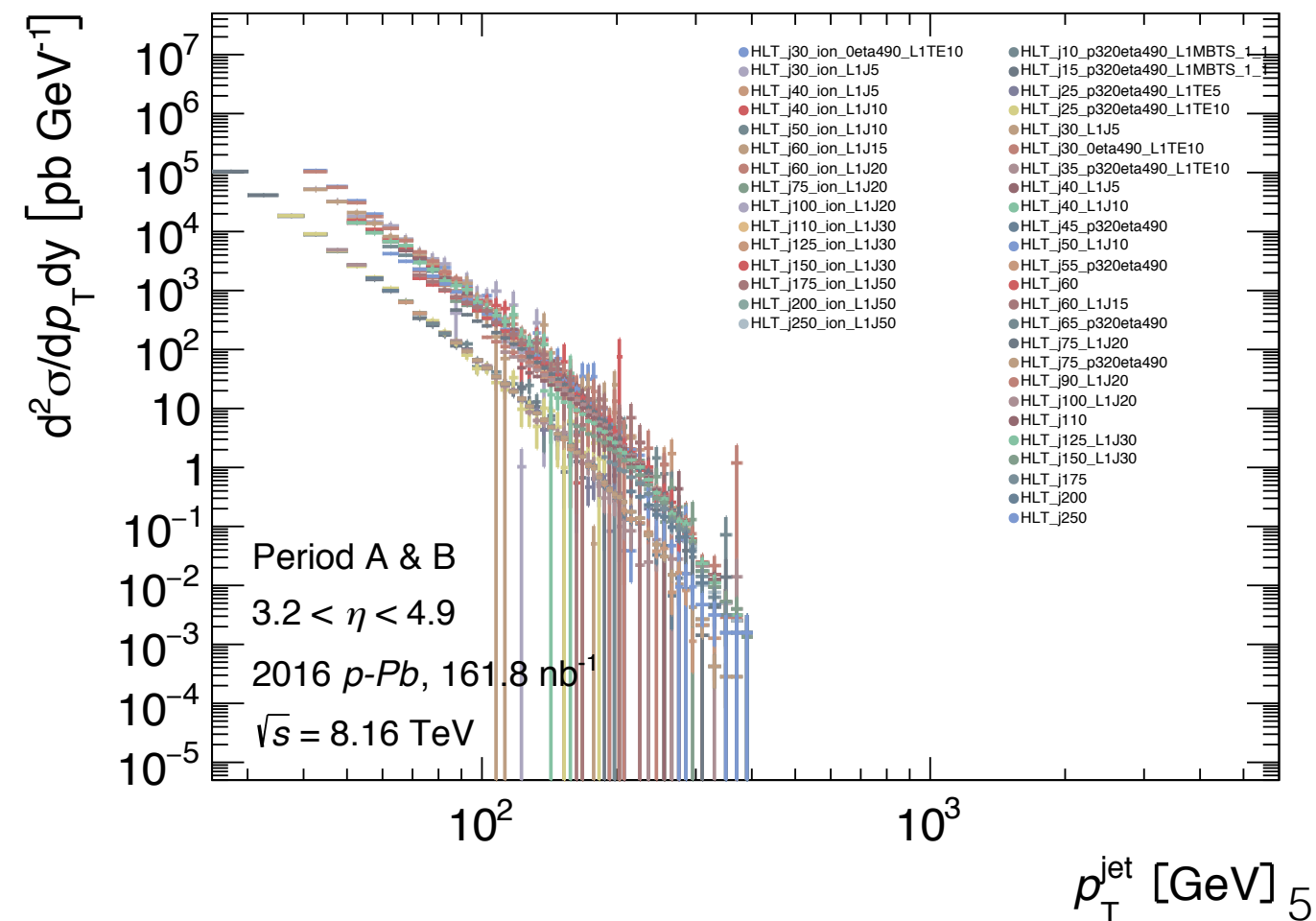
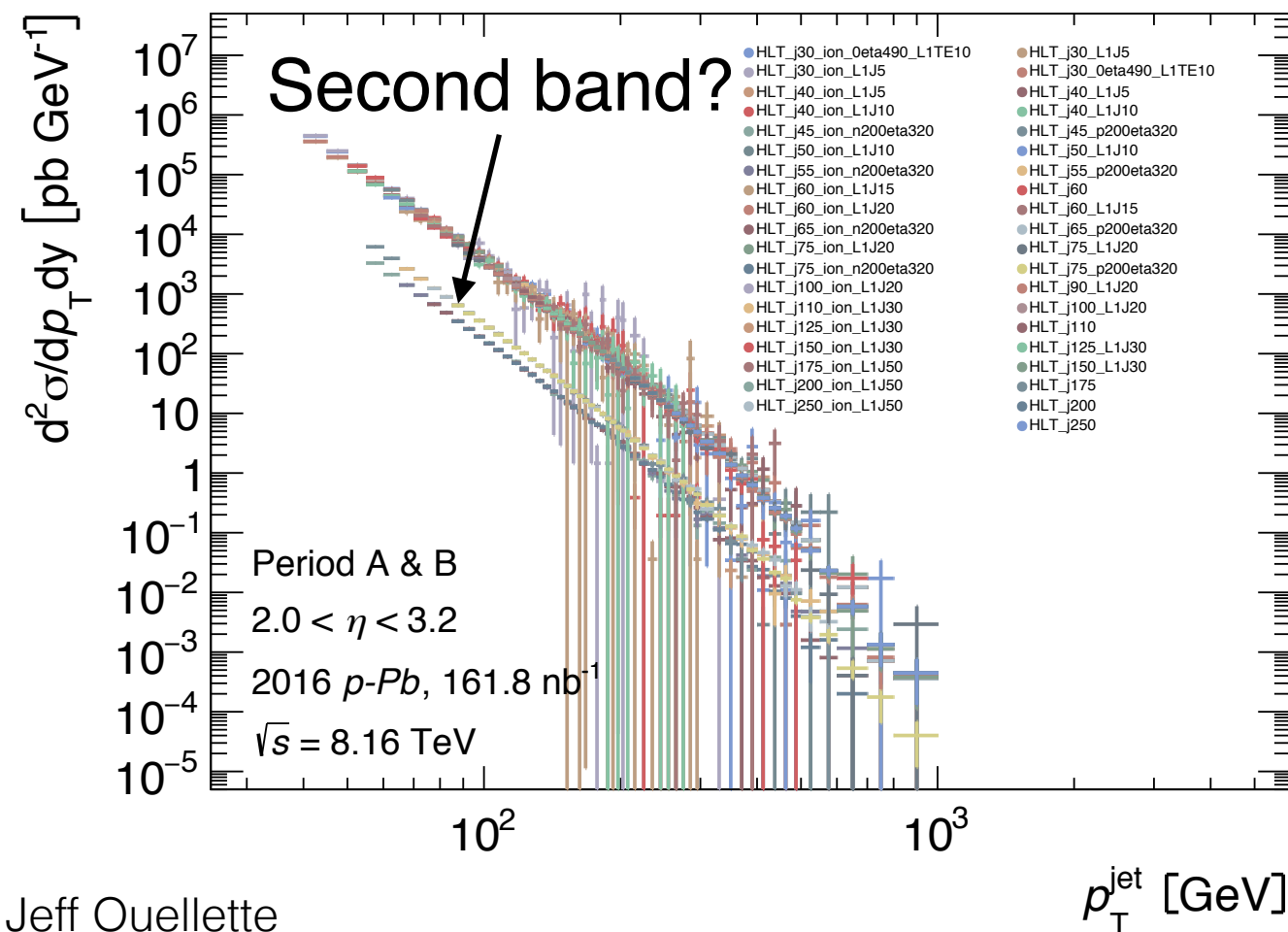
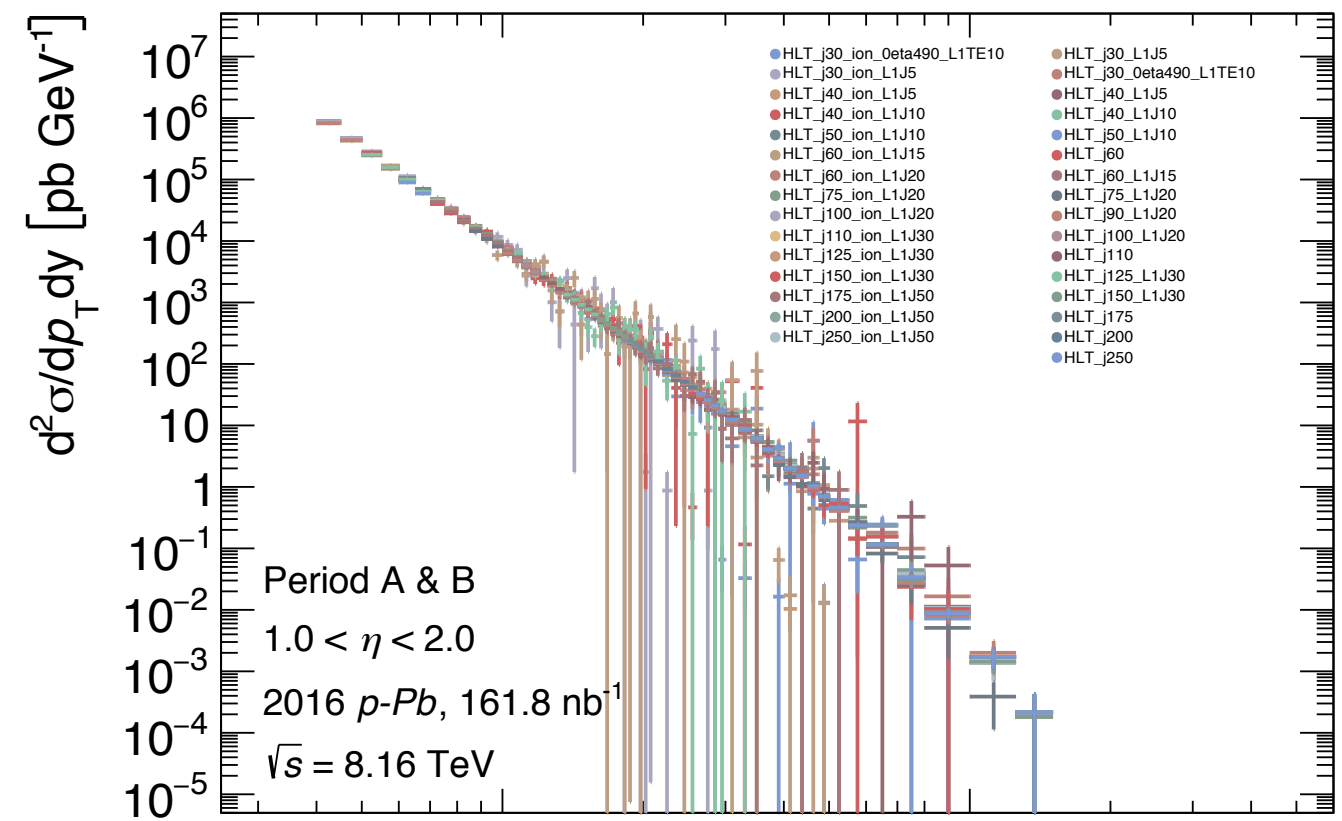
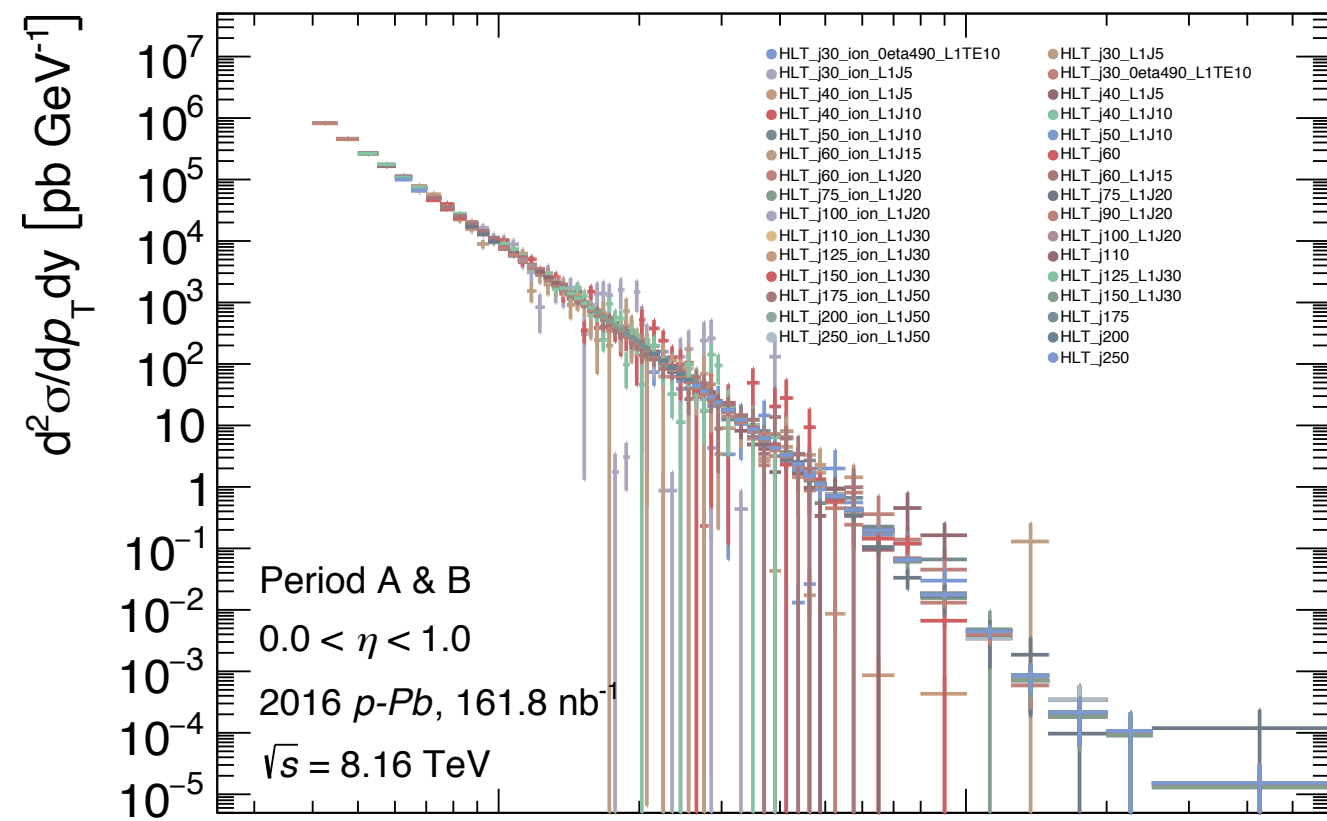
- First look at inclusive jet p_T spectra
- (Aggressive) trigger strategy implemented, but not all triggers were being used yet
 - all triggers now acquired/ being used in analysis
 - trigger inefficiencies avoided (for now) by assuming 100% above $p_T+10\text{GeV}$
- First estimation of Bjorken x_a & x_p scaling factors from dijet production
 - problems from last time due to typo in code, now fixed
- Goals were to implement more triggers into strategy, examine FCAL energy deposition



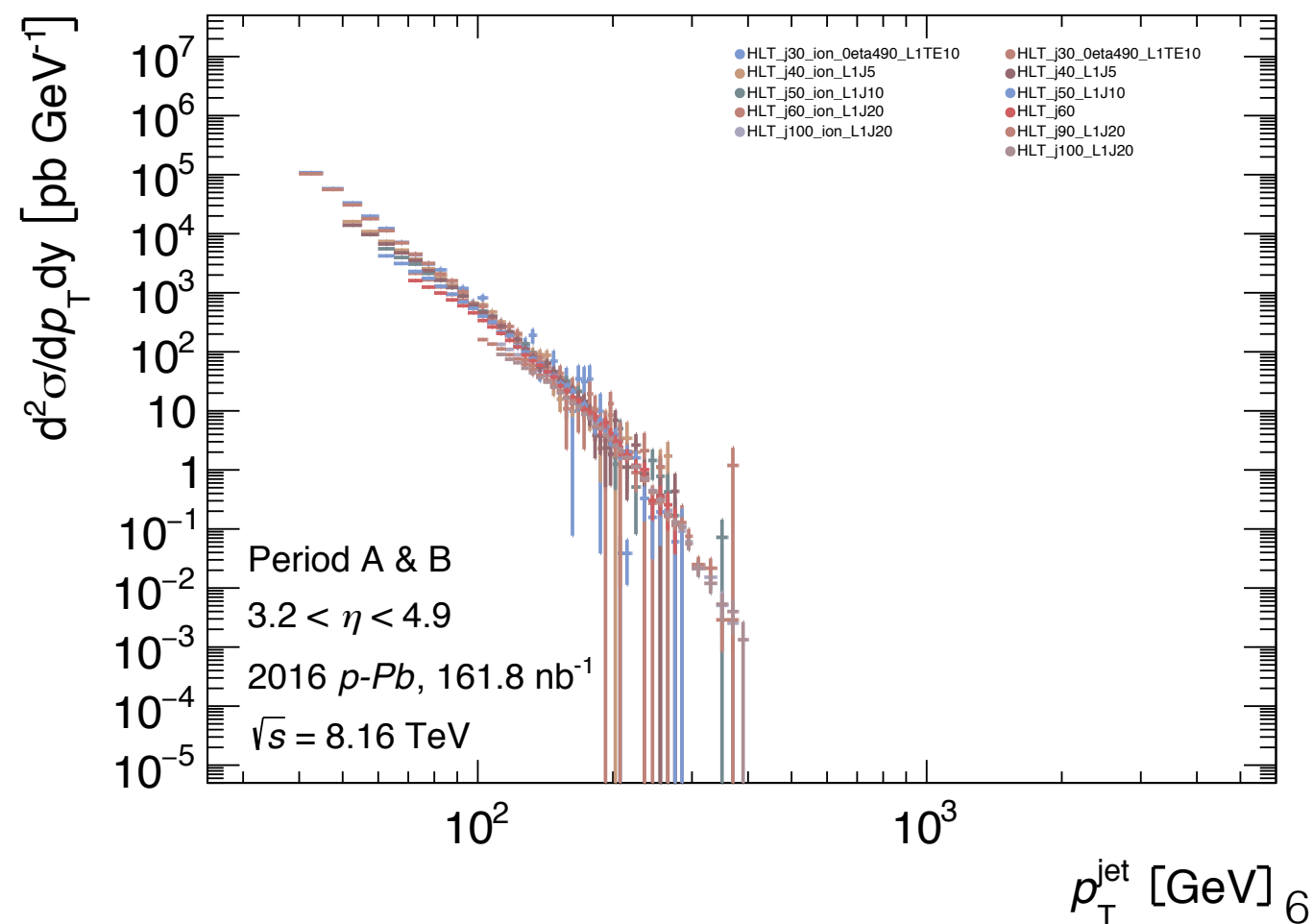
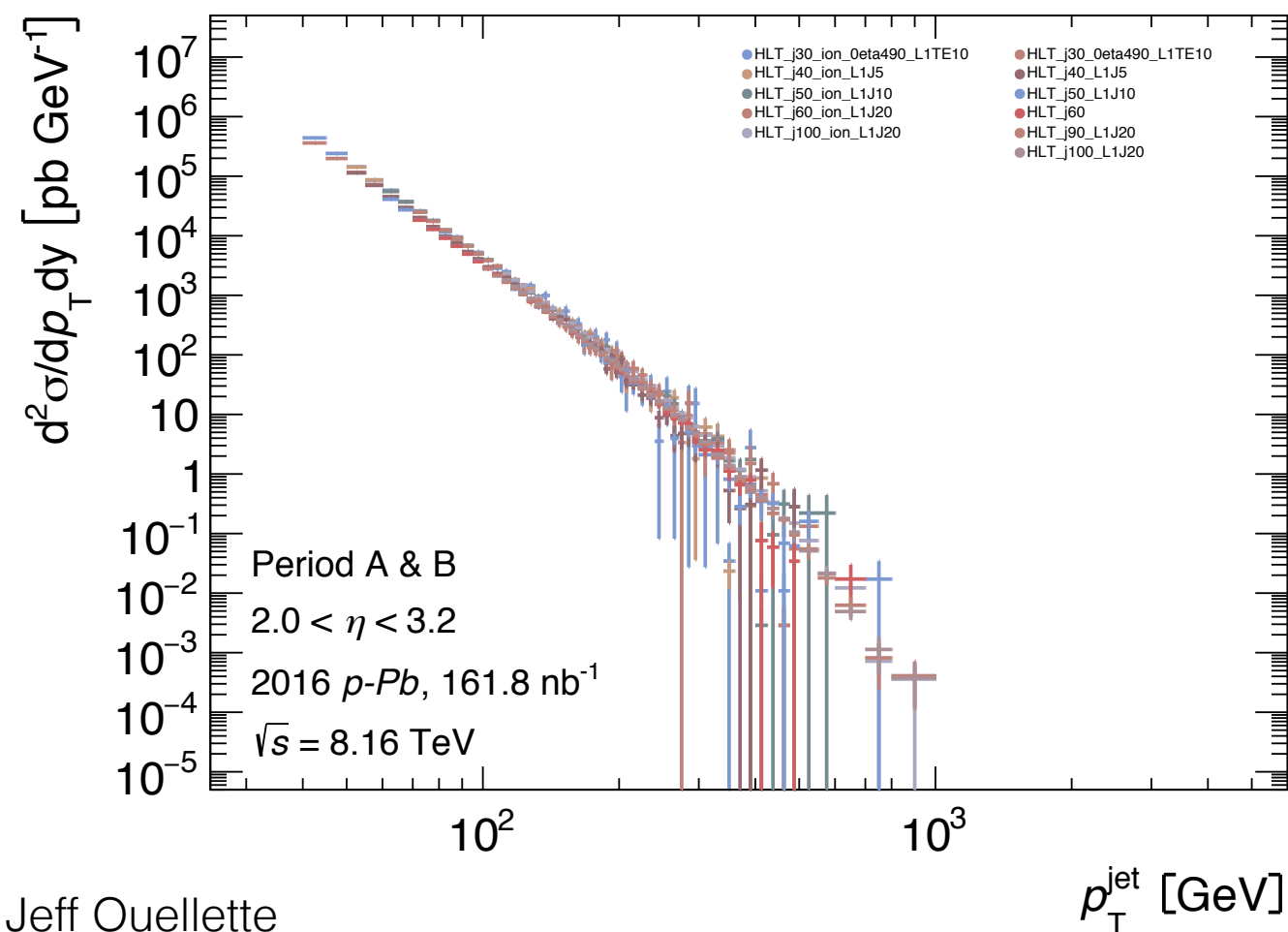
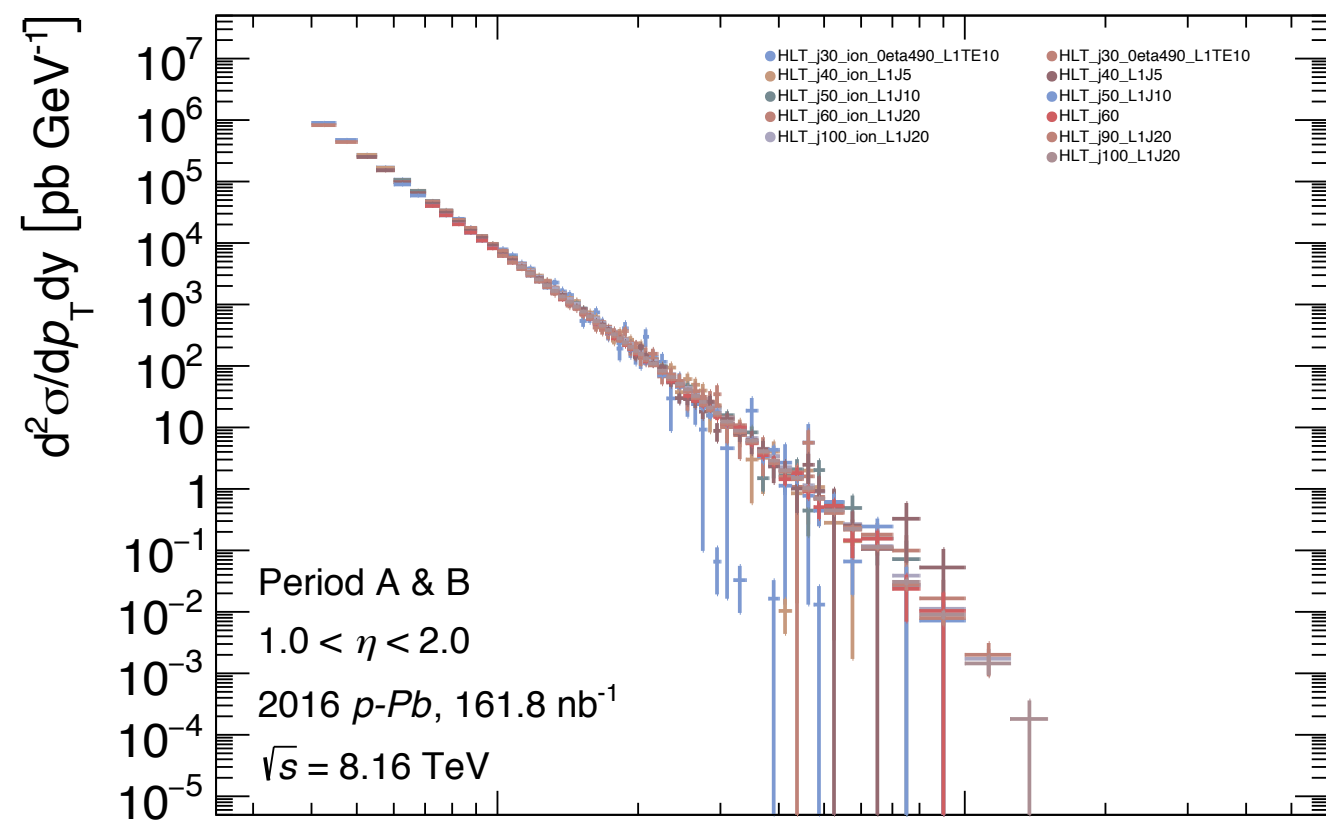
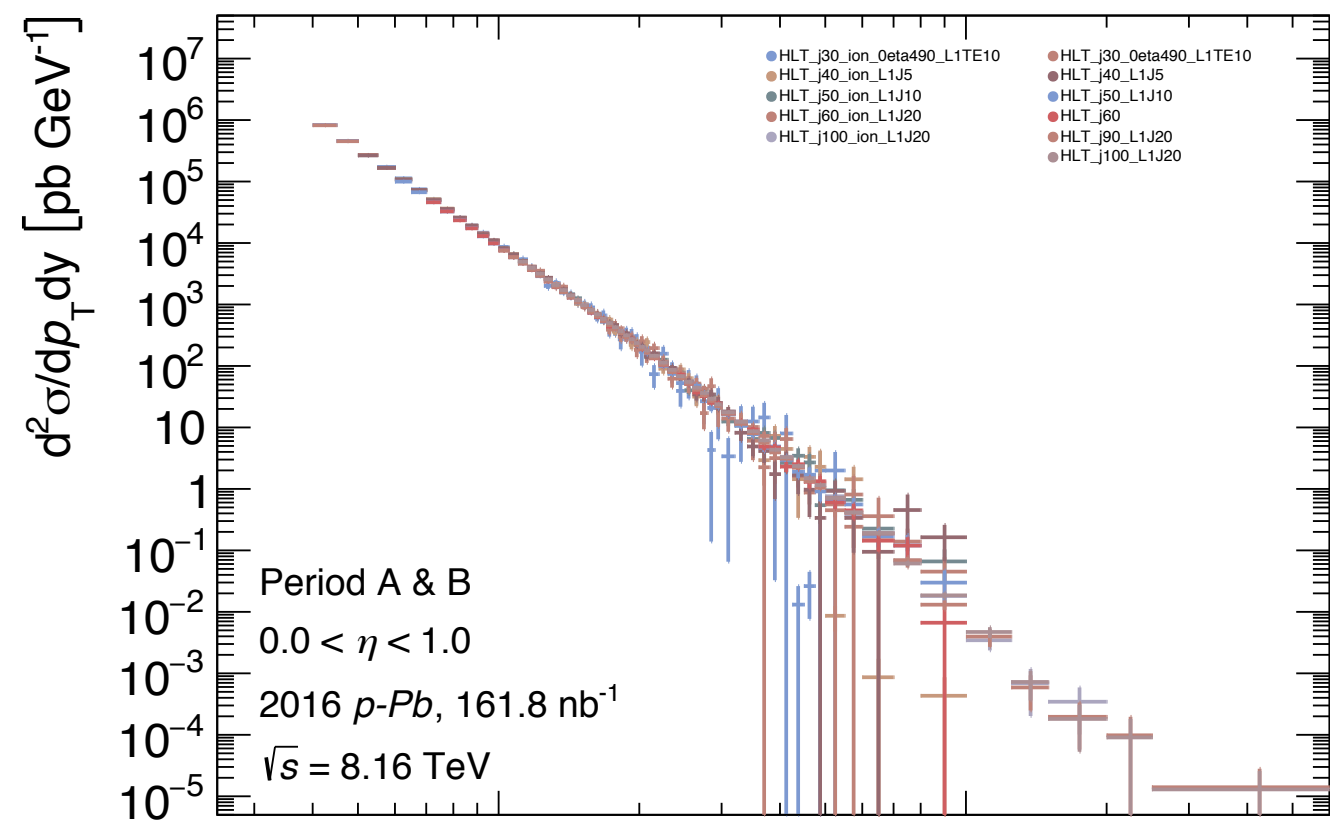
“All triggers” Inclusive p_T Spectrum



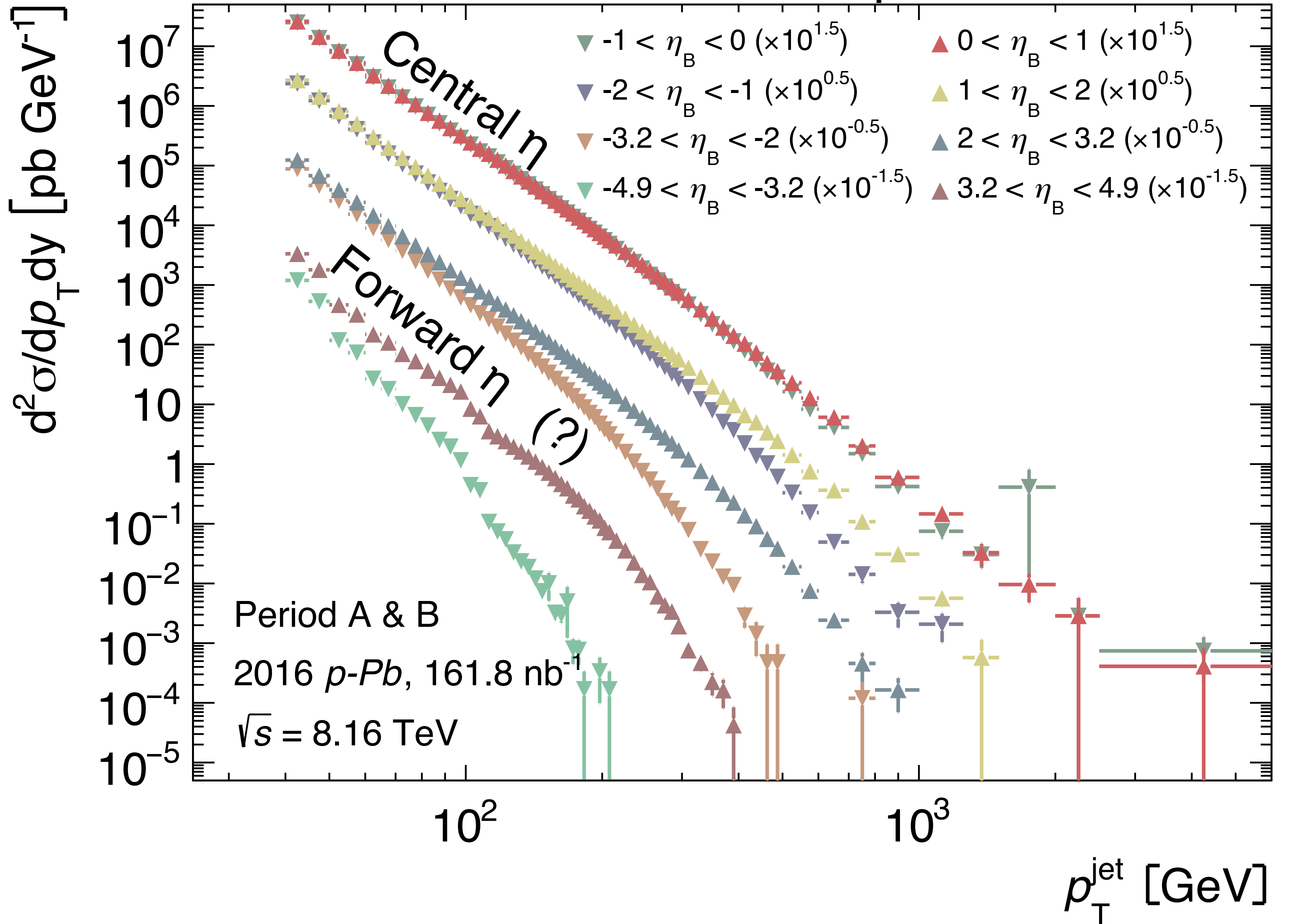
“All triggers” scheme



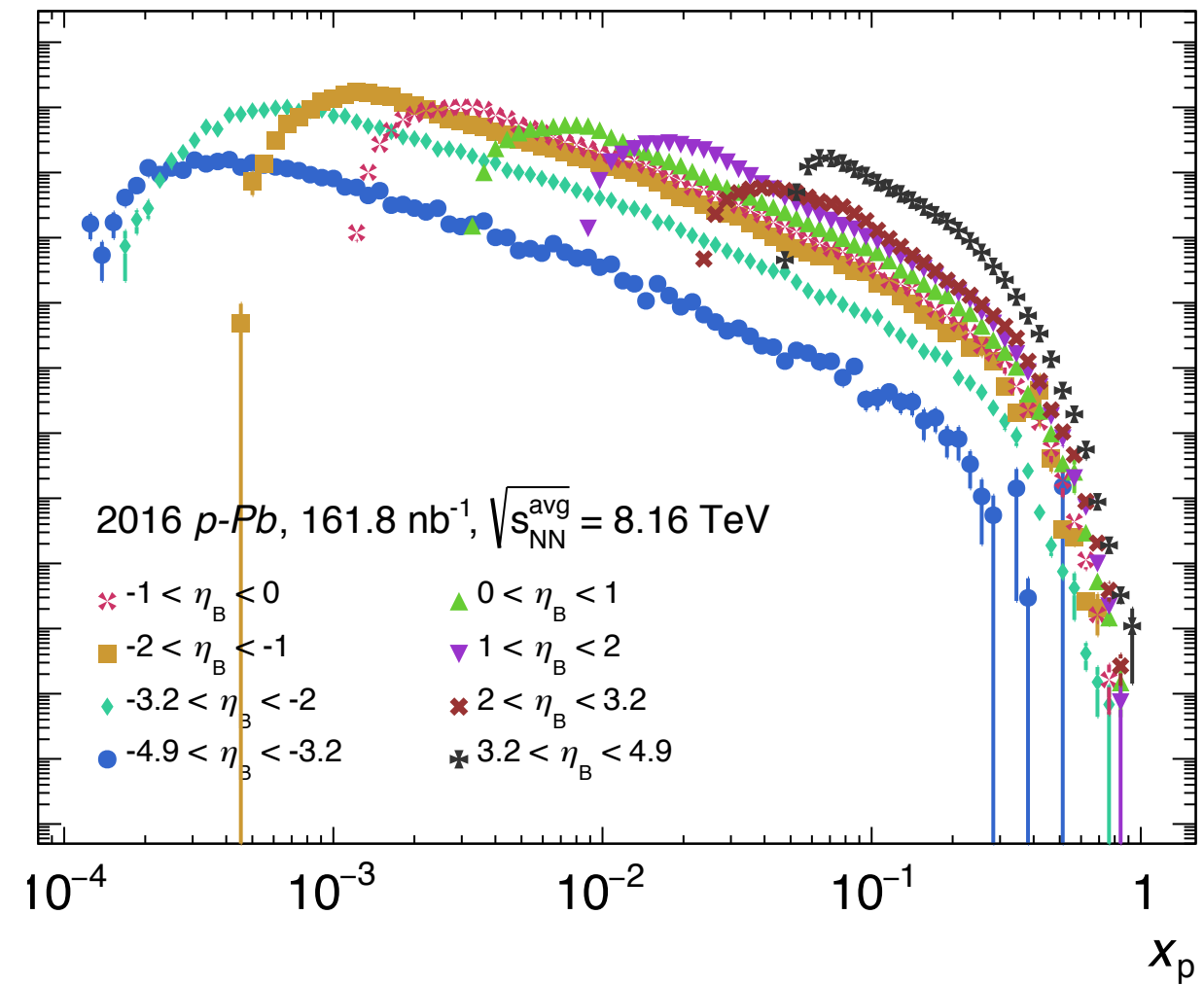
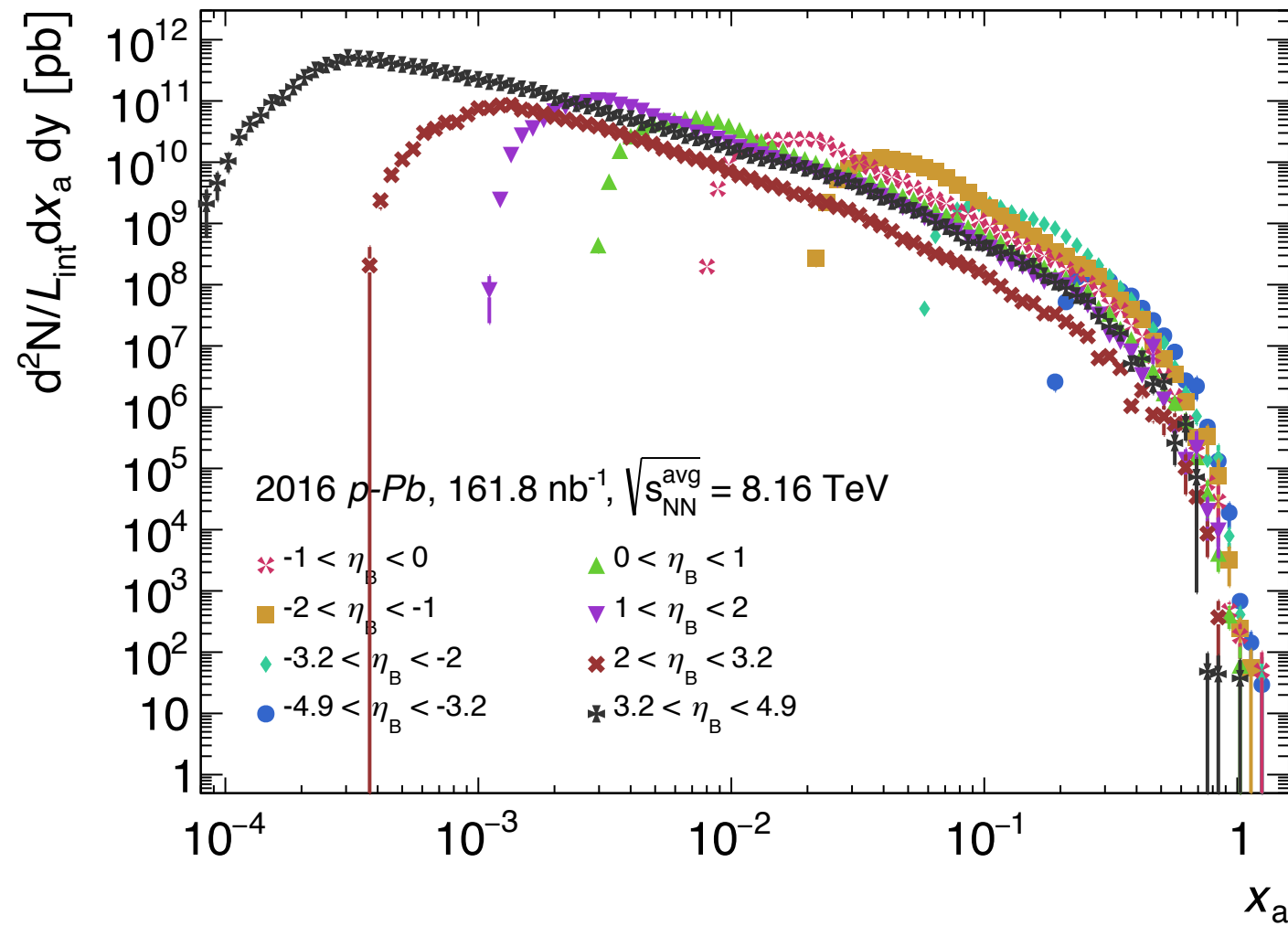
Simplified scheme - drops rerun, eta specific, and non-analysis triggers



“Simplified scheme” Inclusive p_T Spectrum



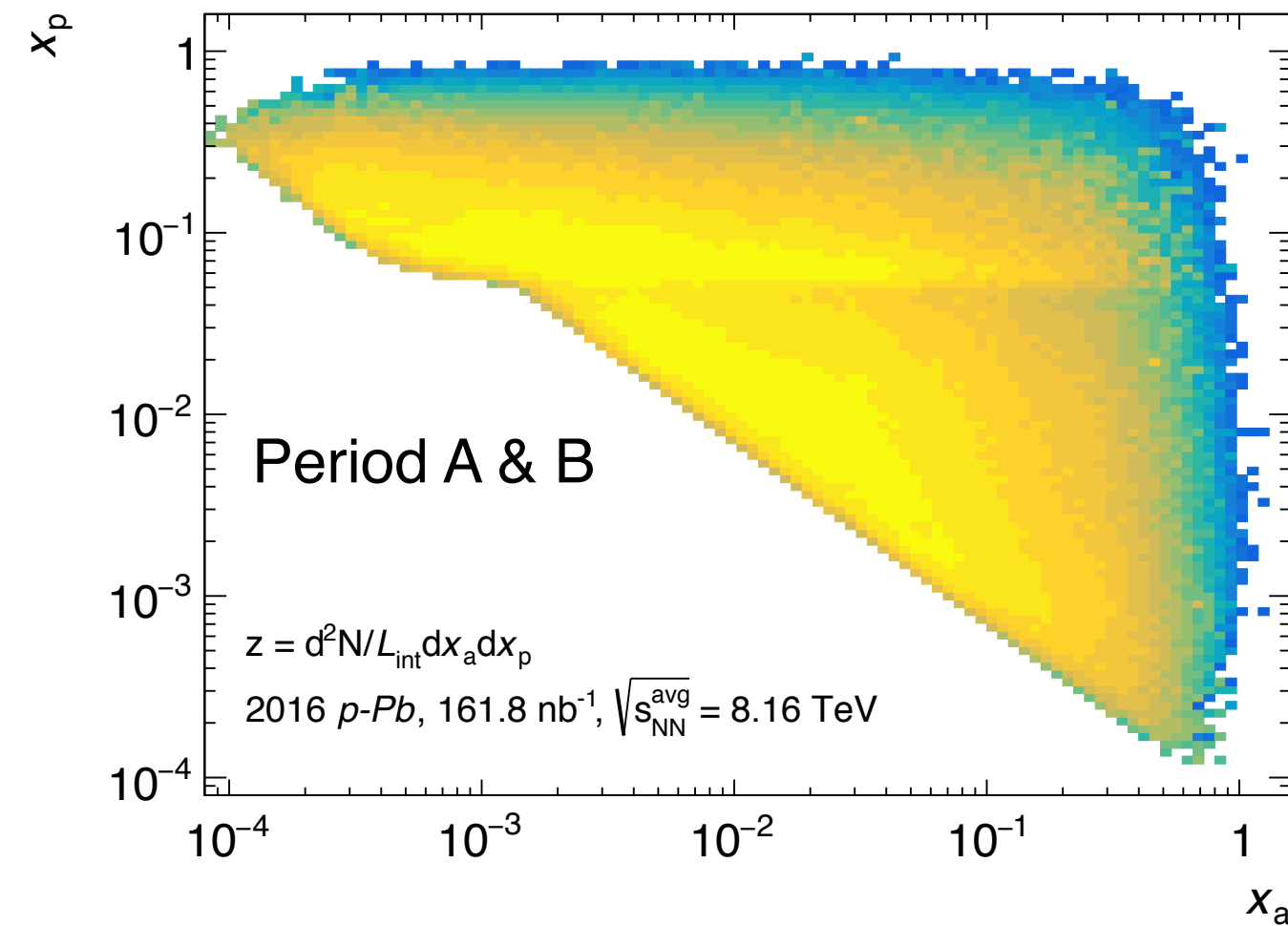
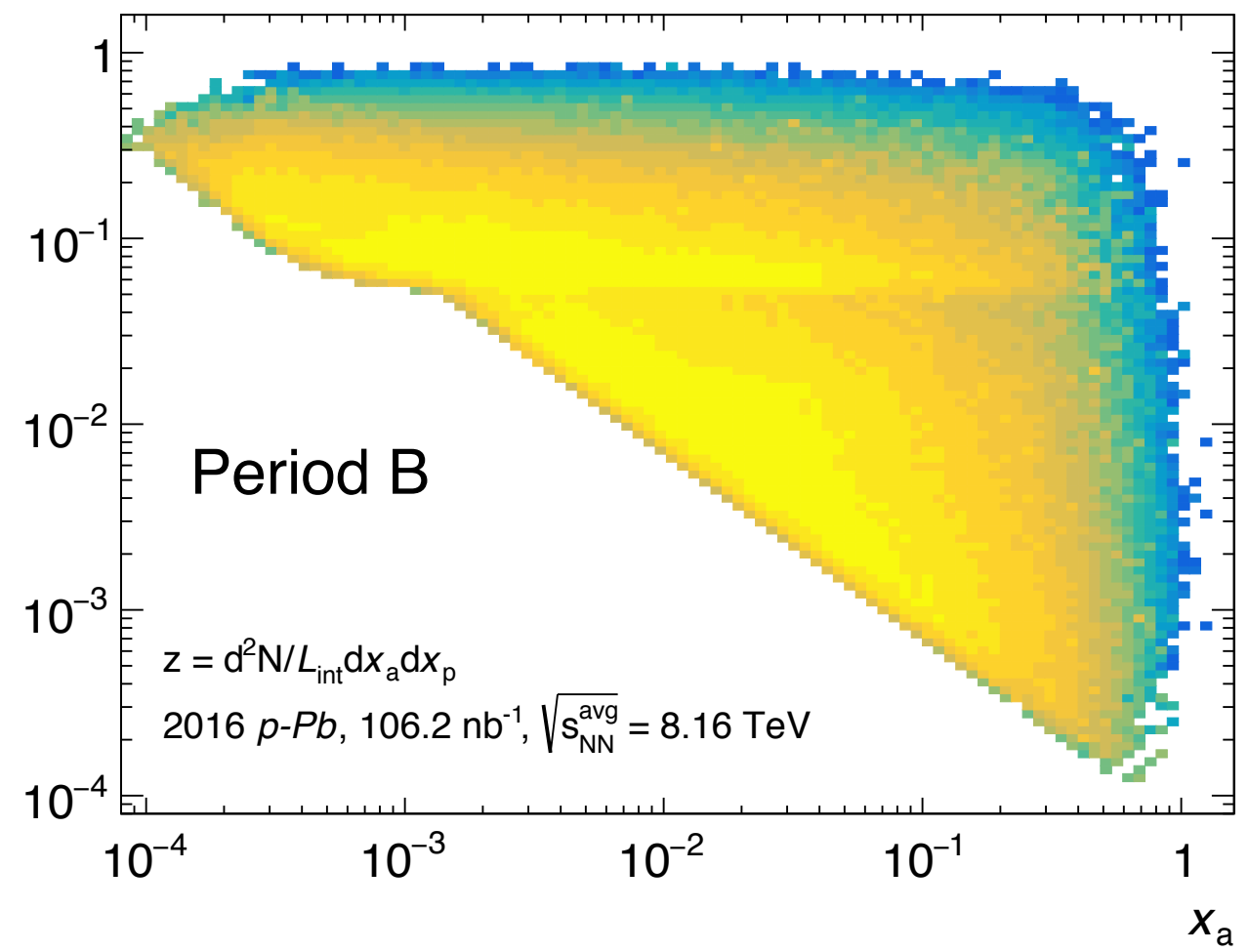
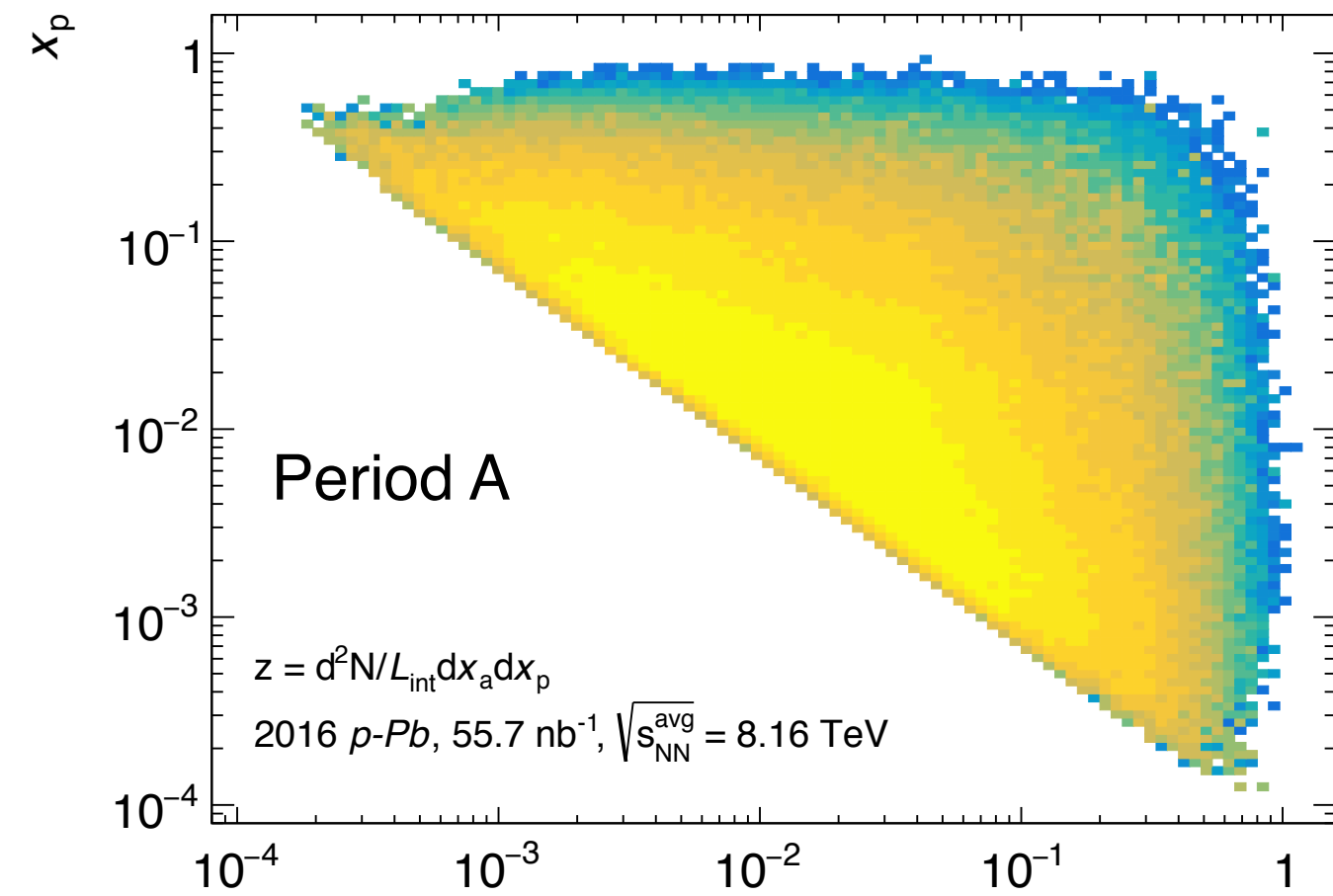
Bjorken x's with “simplified” scheme



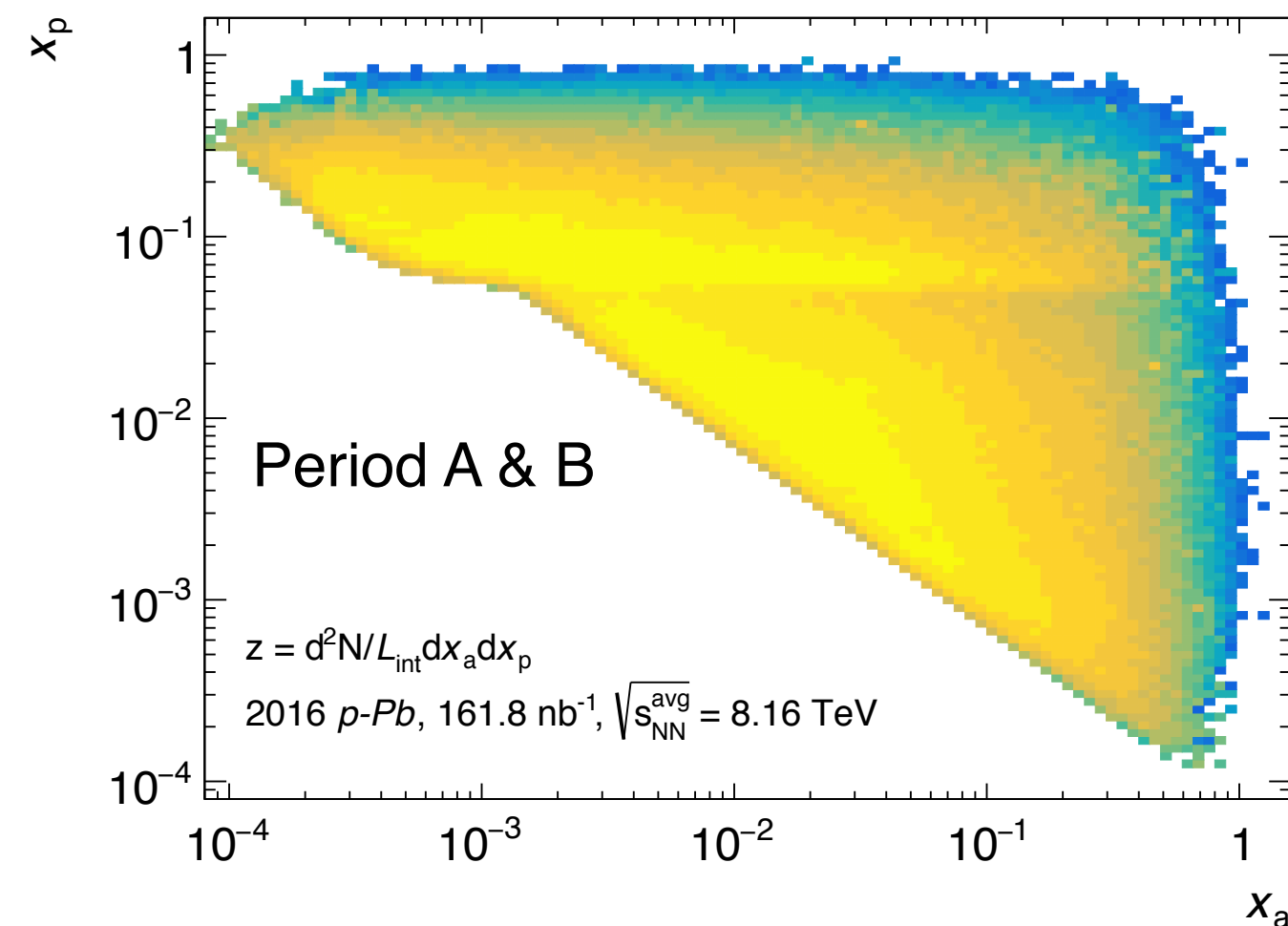
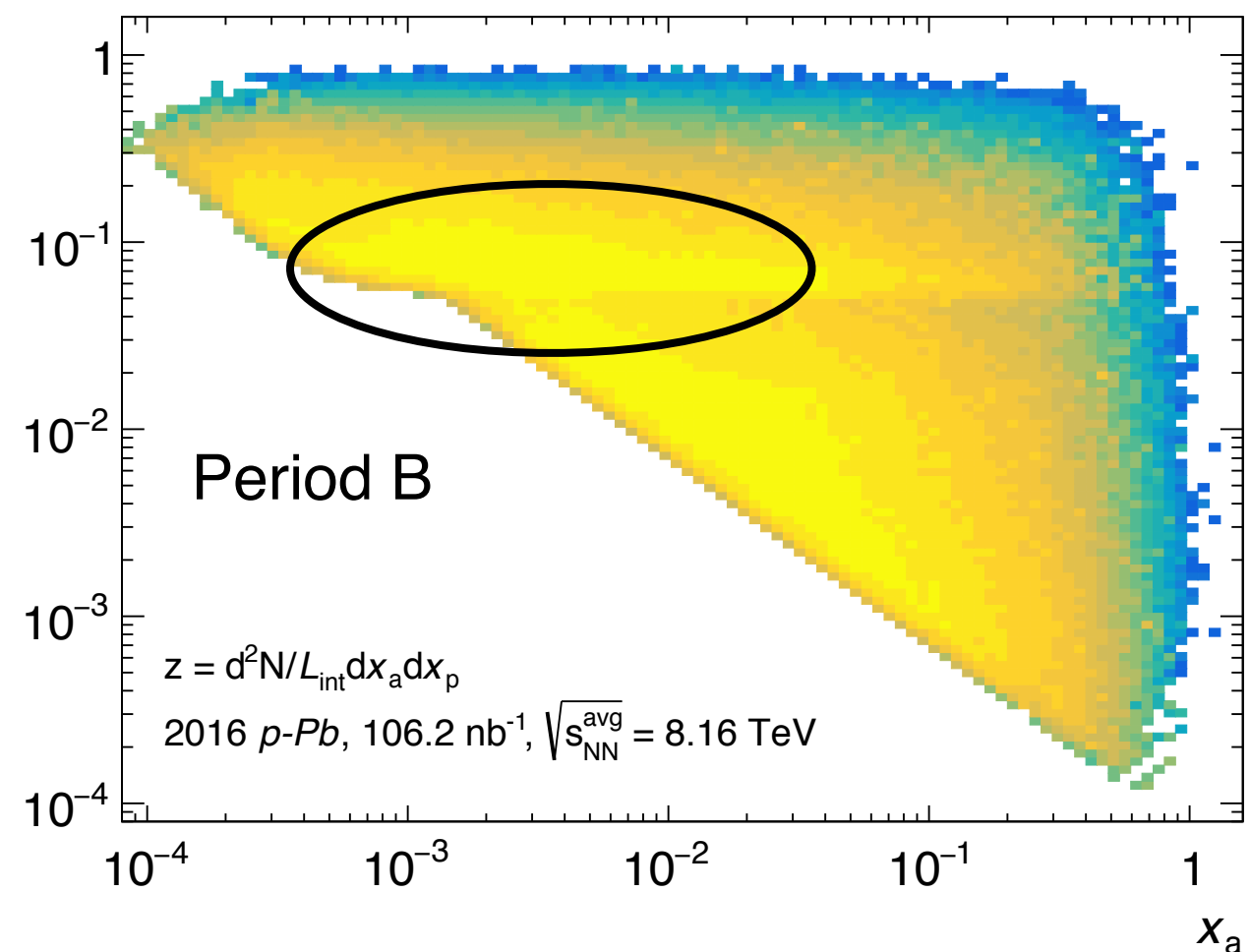
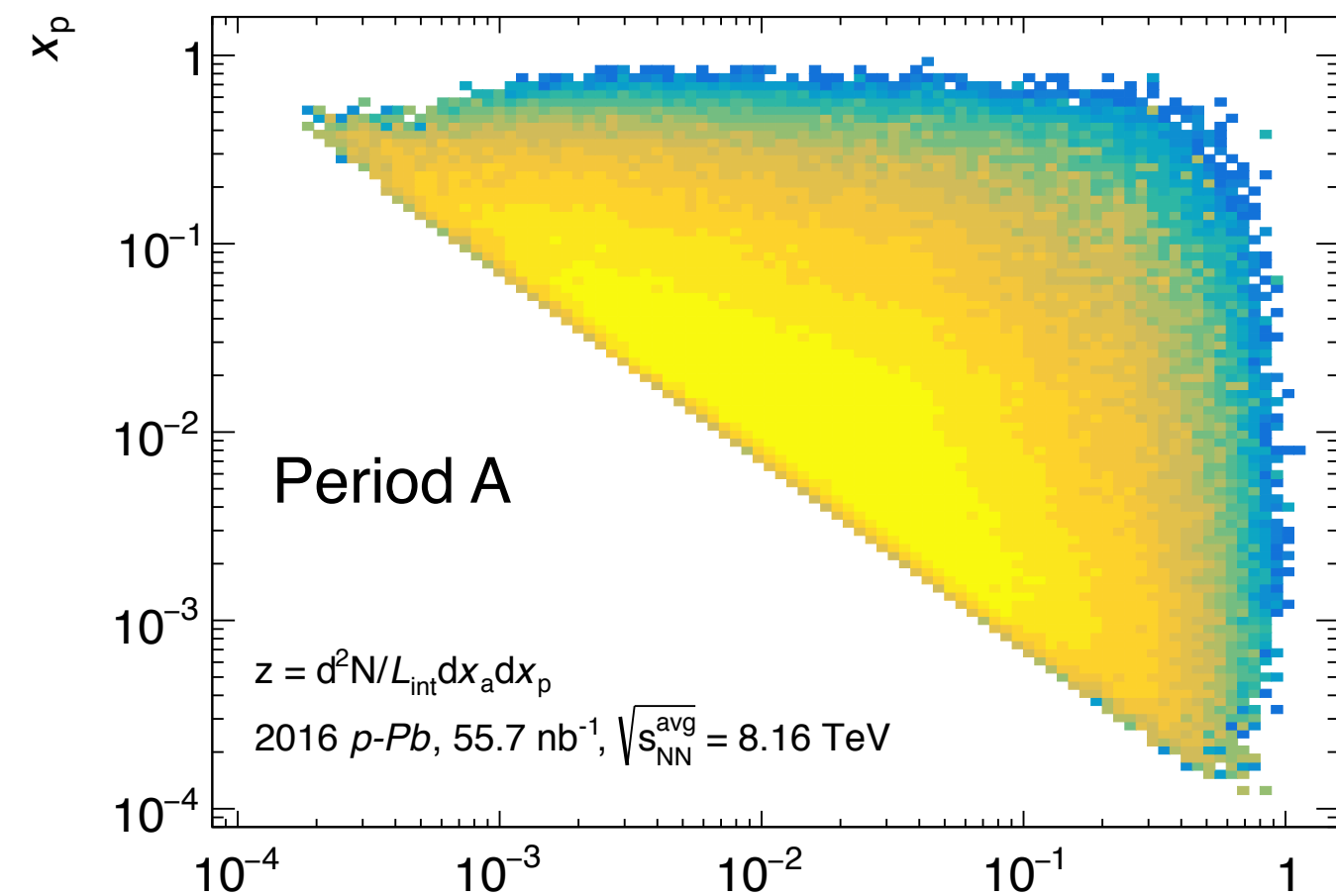
Fill by x_i weighted by leading jet
trigger prescale/luminosity

Dijet condition: $\frac{p_T^{\text{subleading}}}{p_T^{\text{leading}}} \geq 0.7$

→ Excess in $3.2 < \eta < 4.9$ bin?
Only present in period B



Same filling scheme



→ Excess from largest eta bin dominates the correlation plots

Current strategy:

- estimate trigger efficiencies with min bias data sets
- scale by lumicalc as opposed to prescale/lumi