

Transverse Single Spin Asymmetry (A_N) for Electromagnetic-Jet in FMS

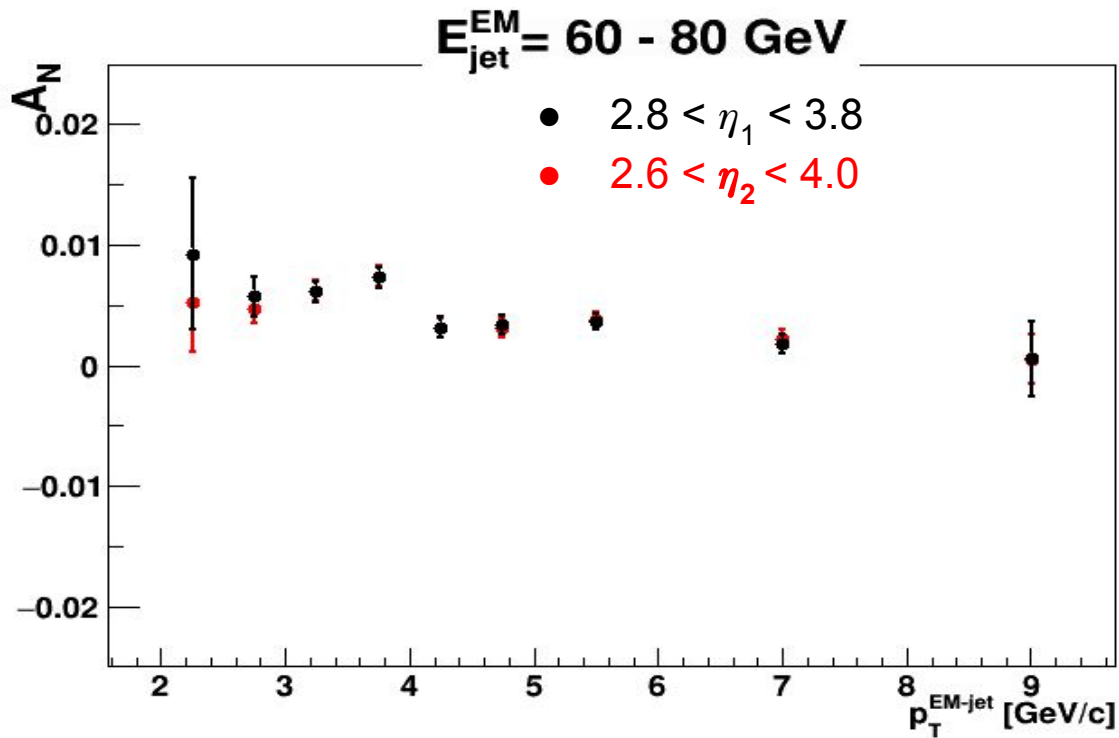
Dataset run 17 $p\uparrow + p$ collision at $\sqrt{s}=510$ GeV

August 23, 2023

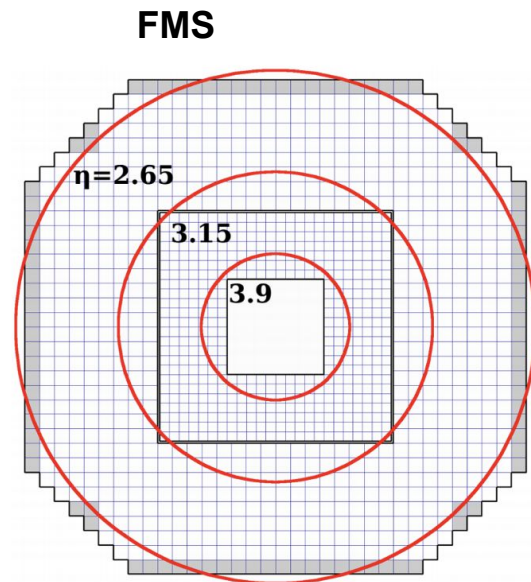
Bishnu Karki
UC, Riverside

Follow up for the status presented [here](#)
[My Blog](#)

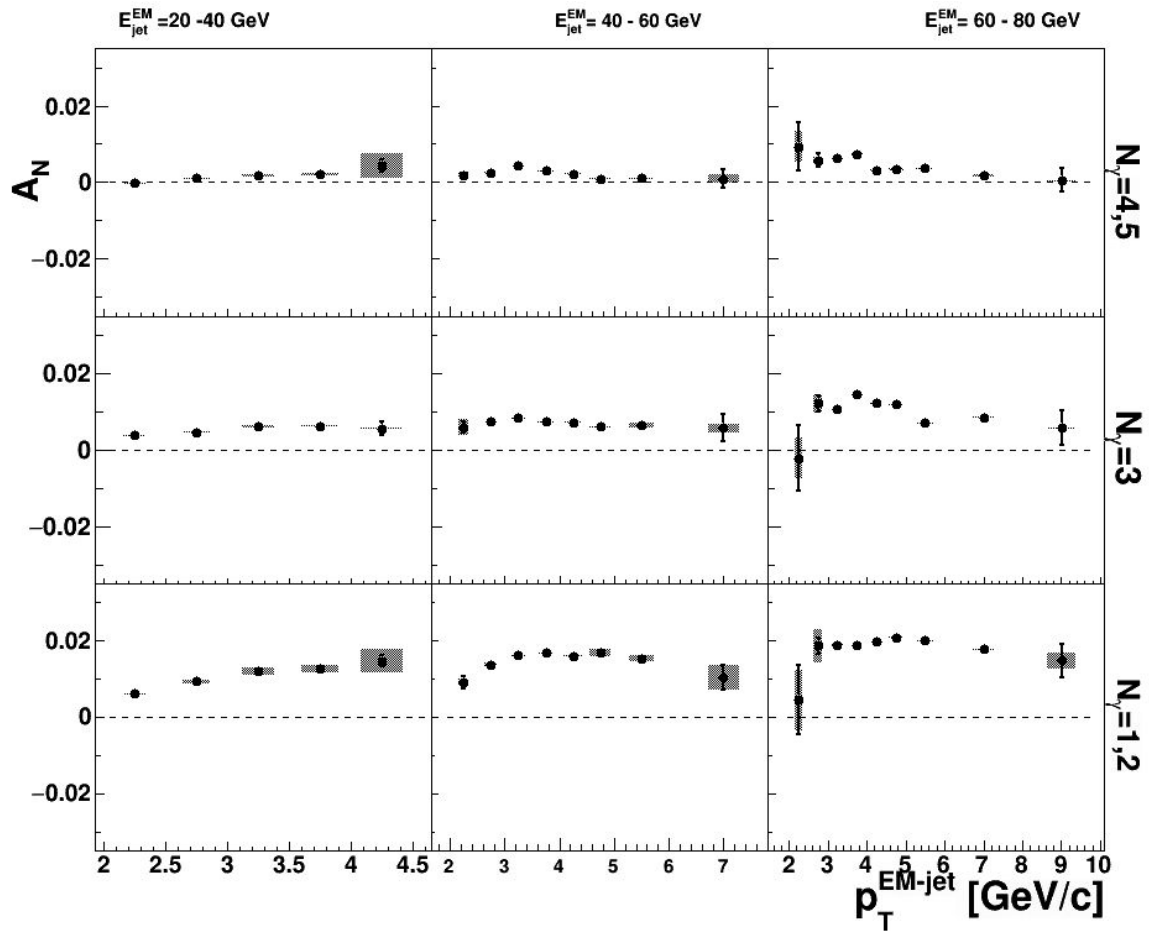
Systematic on A_N



$$\text{Systematic Error} = \left| \frac{(A_N^{\eta_1} - A_N^{\eta_2})}{A_N^{\eta_1}} \right|$$



$A_N \sqrt{s}=510 \text{ GeV}$



- **Energy or p_T Corrections and Uncertainties (~4%):**

- Calibration uncertainty (3%)
- Energy or p_T correction (1.5%)
- Uncertainty due to radiation damage (2%)