

# Jet Energy Asymmetry

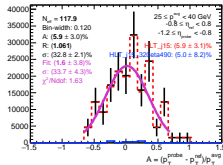
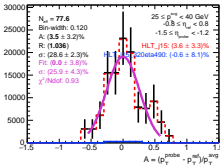
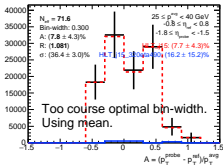
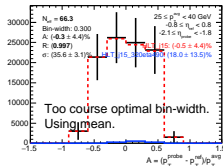
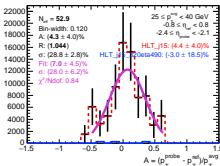
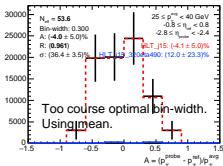
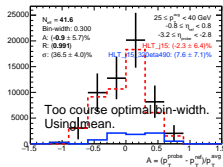
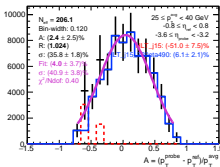
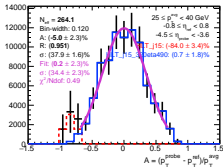
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- Getting comfortable with Michaela and Jacobs code and methods.
- 3D Histograms of Asymmetry,  $P_T$  and  $\eta$ .
- Moved on to produce  $P_T$  Asymmetry plots

Bunch Spacing = 25ns



# Next Steps

- Need to start adapting this to look at JER
- Start looking at the width of the asymmetry:

$$\sigma(A) = \frac{\sqrt{\sigma(p_T^{ref})^2 + \sigma(p_T^{probe})^2}}{p_T^{avg}} \quad (1)$$

- Use the Gaussian fit