Elastic Rad Events

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OVERVIEW

• Reminder: See a discrepancy between data and tail expectation at low nu

Previously shown plots

Subtraction should go to zero past the pion production threshold
With large acceptance cut for the asymmetry the elastic radiative events aren’t coming from the same part of the acceptance/scattering angle as the inelastic events.
**SOLUTION?**

- Use a diff angle for the elastic tails than the inelastic models

  **For elastic tail:**
  Take angle from bin with maximum number of counts in histogram
  Approx: 5.0 degrees

  **For inelastic:**
  Take mean of histogram that is weighted for Mott
  Approx: 5.9 degrees
There is a definite improvement
HOW ABOUT TRANSVERSE?

Acceptance is less symmetric so how do I pick the two angles?
Angular acceptance is bigger at transverse

Hotspot (small angle events) is also isolated to a much smaller part of acceptance than transverse

Apply same method to get elastic angle as I did for the longitudinal??
GOING FORWARD

• Angle difference is the reason for our non-zero tail subtraction
• How do we get the correct angle for the two cases of events??
• QUESTIONS/COMMENTS/CONCERNS