

# BigBite Analysis

BB Optics Update

Matthew Posik

<sup>1</sup>Temple University  
Philadelphia, PA 19122

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- 1 BigBite Optics
  - Vertex progress

- Corrected  $Z_v^{(0)}, Z_v^{(1)}, Z_v^{(2)}, Z_v^{(3)}, Z_v^{(6)}$
- Approximate momentum reconstruction was used to make momentum dependent vertex corrections
- $Z_v^{(4)}$  and  $Z_v^{(5)}$  were corrected using approximate momentum
- $Z_v^{(6)}$  was corrected by using look up tables to correct extreme regions
  - This involved bendx, bendy and reconstructed vertex
- Current in progress resolution 0.88 cm
- What sort of resolution is needed for z-vertex?

# Vertex Reconstruction (In Progress)

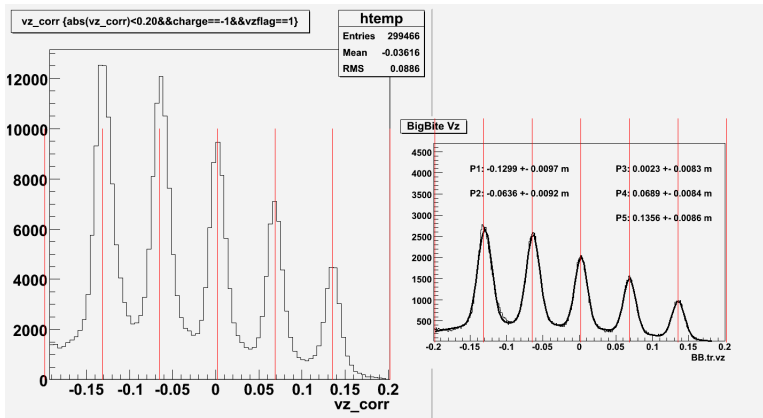


Figure: Current negative polarity vertex correction, up to order  $Z_v^{(6)}$

# Vertex Reconstruction Correlations

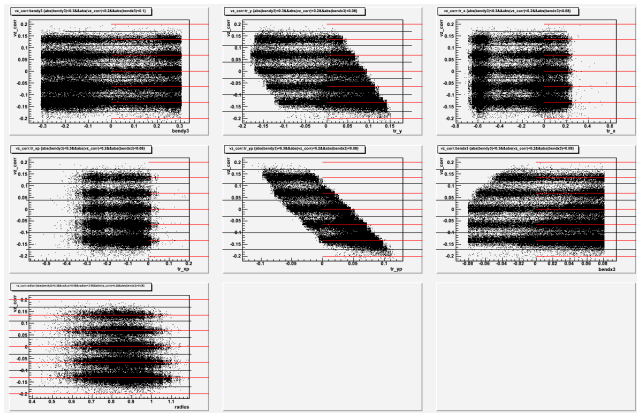


Figure: Vertex vs various variables