

# Jet Vertex Resolution Study

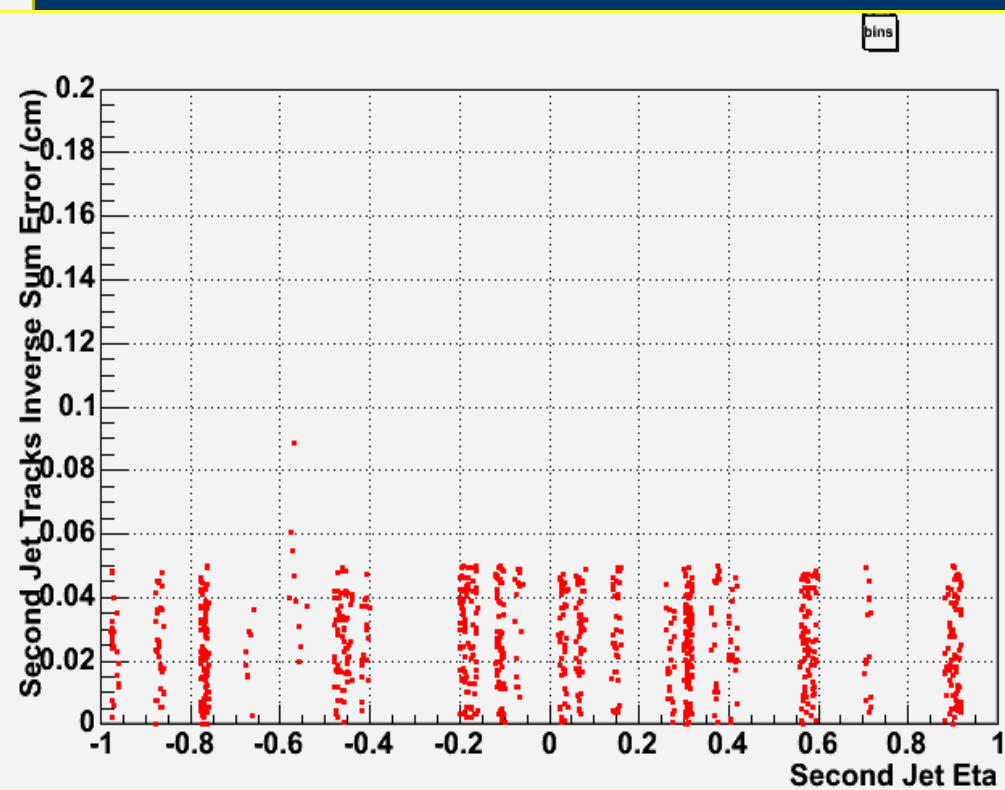
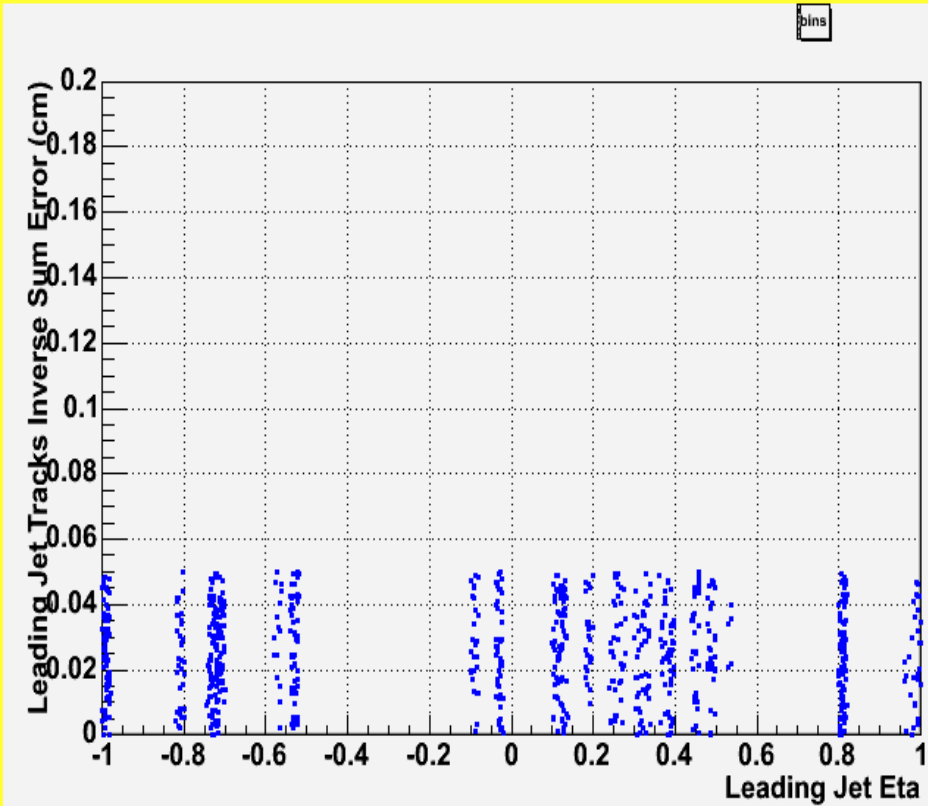
- **Track Selection criteria**
  - **How is the Inverse Sum Error Calculated ?**
  - **Plots for the Inverse sum Error for Leading and Second Jet**
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## Tracks Selection Criteria

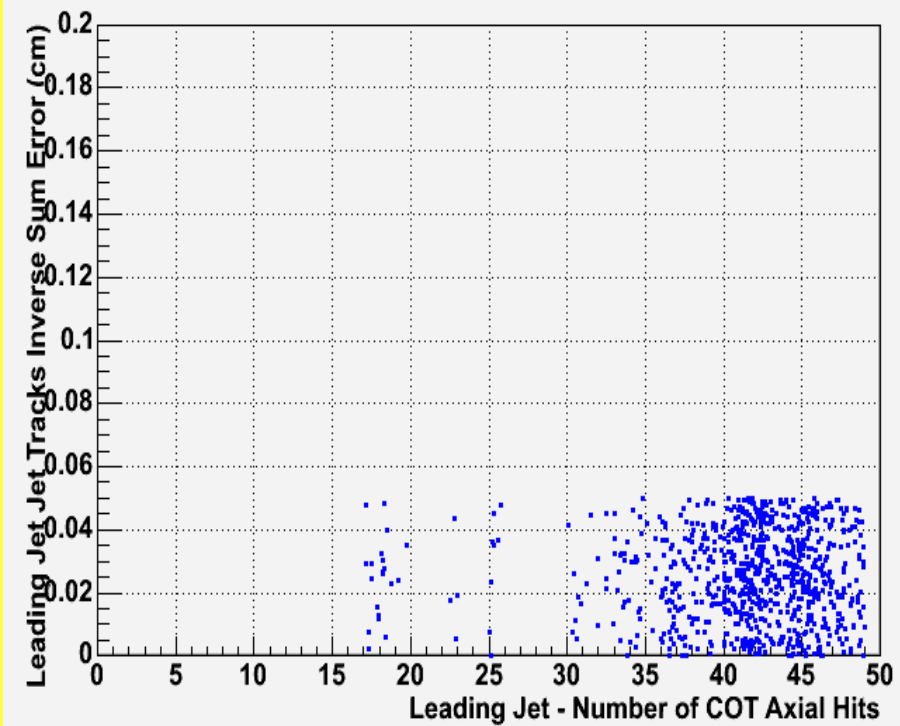
Type of Track	No. of Axial Hits	No. of Stereo Hits	Chi2Dof
COT Only	3	3	4
SVX only	5	3	8
COT+SVX	2-COT/4 SVX	2-COT/3-SVX	Same as above

# How is the Inverse Sum error Calculated ?

- Tracks are classified according to the criteria mentioned in the Table above .
  - For each type of track the Error is calculated individually
  - Inverse COT only Track Error Squared (ICotErr)=  $(1/(\text{COT Tracks Error})^2)$
  - Inverse SVX only Track Error Squared(ISvxErr)=  $(1/(\text{SVX Tracks Error})^2)$
  - Inverse COT+SVX only Track Error Squared(ICotSvxErr)=  $(1/(\text{COT+SVX Tracks Error})^2)$
  - Sum = ICotErr + ISvxErr+ ICotSvxErr
  - Inverse Sum Error (The Value in the plots)=  $1/\text{sqrt}(\text{Sum})$
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bins



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