

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

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)= $(1/(COT \text{ Tracks Error})^2)$
- Inverse SVX only Track Error Squared (ISvxErr)= $(1/(SVX \text{ Tracks Error})^2)$
- Inverse COT+SVX only Track Error Squared (ICotSvxErr)= $(1/(COT+SVX \text{ Tracks Error})^2)$
- Sum = ICotErr + ISvxErr+ ICotSvxErr
- Inverse Sum Error (The Value in the plots)= $1/\sqrt{Sum}$







