Jet Vertex Resolution Study

- Track Selection criteria

- How is the Inverse Sum Error Calculated ?

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 Tracks Error)^2)

- Inverse SVX only Track Error Squared(ISvxErr)= (1/(SVX Tracks Error)^2)

- Inverse COT+SVX only Track Error Squared(ICotSvxErr)= (1/(COT+SVX Tracks Error)^2)

- Sum = ICotErr + ISvxErr+ ICotSvxErr

- Inverse Sum Error (The Value in the plots)= 1/sqrt(Sum)