

JADE - Computer Note No. 17

Bank Created by the Z-Vertex Reconstruction (ZVERTF)

- Name of the bank : 'ZVTX'
- Contents of the bank :

- (1) : Z(vertex) in mm
- (2) : σ of the z-distribution
- (3) : σ_z = error of $z = \sigma\sqrt{n}$
- (4) : number of hits in peak of z-distribution
- (5) : number of background hits
- (6) : IFLAG = -2 if < 8 hits in ring 1
 - = 0 if (peak/background < 2.0) .AND. (< 5 hits in vertex peak)
 - = 1 if (peak/background > 2.0) .AND. (< 5 hits in vertex peak)
 - = 2 if (peak/background < 2.0) .AND. (> 5 hits in vertex peak)
 - = 3 if (peak/background > 2.0) .AND. (> 5 hits in vertex peak)

$$\left. \begin{array}{l} Z_v = 0 \\ \sigma = \sigma_z = 10^6 \end{array} \right\} \text{ if IFLAG} < 0.$$

BANK Created by the Z-Vertex Reconstruction (ZVERTF)

- Name of the bank : 'ZVTX'
- pointer to the bank : ^{BCS} I DATA(71) in COMMON /CDATA/
- contents of the bank :
 - (1) : Z(vertex) in mm
 - (2) : σ of the z-distribution
 - (3) : $\sigma_z = \text{error of } z = \sigma\sqrt{n}$ ↗ ? vertexlet
 - (4) : number of hits in peak of z-distribution
 - (5) : number of background hits
 - (6) : IFLAG = -2 if < 10 hits in first ring
 = -1 if < 5 hits in peak of histogram
 = 0 if peak to background ratio < 2.0
 = 1 if good z-vertex has been obtained.

$$\left. \begin{array}{l} Z_v = 0 \\ \sigma = \sigma_z = 10^6 \end{array} \right\} \text{ if IFLAG} < 0.$$