

AcidRecon Status Update

Remember the ACD?

Analysis Meeting

July 19, 2004

Long time, no changes

- ◆ AcdRecon has not seen much modification in the last year:
 - Oct 2003: Add Active Distance calc for ribbons
 - July 2003: Vital bug fixes to Active Distance (Bill Atwood)

Modifications to Come

- ◆ Actually use the veto discrim to determine what PMTs to ignore in AcdRecon
 - Currently, we still use a cut on energy deposition.
- ◆ I&T has requested that we start simulating the pedestals in the AcdDigis. This would require subtracting the pedestals in AcdRecon.

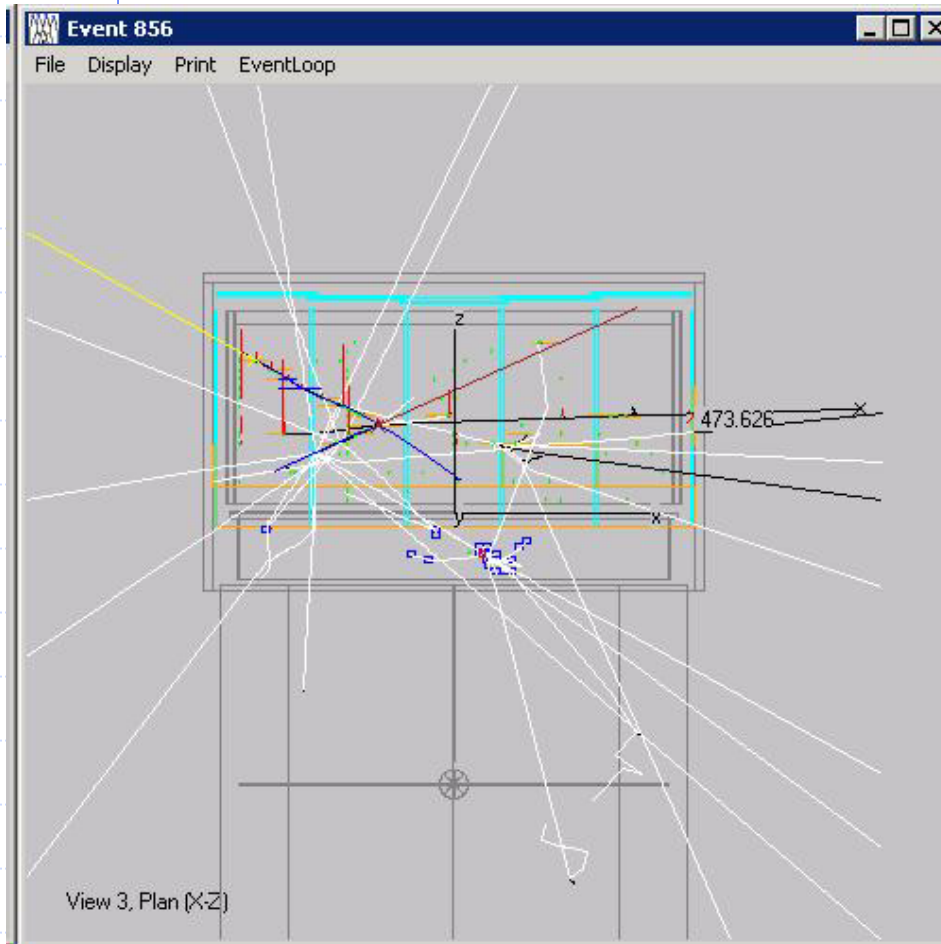
Thoughts From Bill

◆ Potential ntuple quantities (AcidValTools):

■ AcidTkrHitsCount

- ◆ Number of TkrClusters within some proximity of a hit tile
Calculate distance between center of hit tile and cluster –
if below some threshold, increment the counter.
Maintain counters for each row of tiles.

Thoughts from Bill contd.



- ◆ When ≥ 2 ACD tiles hit
 - Form a ray using the centers of each pair of ACD tiles (excluding those on the same side). Count number of TkrClusters within some distance to this ray.
 - Helpful to fine cosmics traveling parallel to TKR trays that interact in tower wall/tray closeout producing soft secondary that is tracked.

When?

- ◆ Could start using veto discrim anytime
 - Would prefer to maintain 2 versions of the ntuple quantities for a time – to be sure no damage is done
- ◆ Pedestals – need to be done for the I&T release of EngineeringModel, mid-Aug
- ◆ Bill's 2 new quantities are relatively easy to implement – hopefully in 2 wks