Subject: Re: Update of Ihetrack Posted by asanchez on Wed, 07 May 2008 12:03:53 GMT View Forum Message <> Reply to Message

Dear all, i have done some modifications in tof so that the tof detector can be added to lhetrack without problems(it doesn't crashes)

One can operate either with TofPoint or with TofHit. Of course if one uses the TofPoint the result aftre tracking and fit is nicer(see picture below) than by using the TofHit information.

To create the hit, i have made some approximation to calculate the time at each edge of the scintillation bar(as it was measured by a tdc), so basically hit provides the position coordinates of the center of the bar in the xy plane, and the z coordinate is determined by using the time difference (photon arrival time)measured by tdc.

Of course the position resolution will be much worse than mvd or tpc.

Here you are two pictures in which tofPoint and TofHit was considered respectively.

So i don't know if it is a good idea to add the tof information to the tracking.

I think that for pid with tof, geane should be used to match the track with tof hits and get the corresponding tof, and then try to calculate the total length. best regrads

File Attachments

1) pTlheTofhit.eps, downloaded 509 times

2) pTlheTofPoint.eps, downloaded 437 times

