Subject: Re: About Reconstruction Posted by Jifeng Hu on Wed, 17 Jul 2013 08:58:43 GMT View Forum Message <> Reply to Message

I read the pid packages in last week.

Considering a fully

time-based reconstruction for EMC, the time-stamp will be used.

To identify a shower belongs to which event, we need compare the shower's time (T_shower) to the event time (T_evt), suppose the event time is determined by the fastest TOF detector for events containing charged track, or determined by EMC for neutral decays. Usually, T_shower = T_evt + T_flying + T_signal, this means from the event time T_evt, one track spent T_flying time and hit EMC, then spent T_signal time and produced a shower. And now I hope to get a calibrated event time by calibrating T_shower, so the flying path is needed. this work has been done for photons. The flying path is easily taken as a straight line

However, a little hard for charged tracks, becasue

by connecting the hitting position with the collision vertex.

<1> After associating charged tracks with showers, how to access the flying path between origin and EMC hitting position? Since the helix parameters only offer the path inside tracking detector without any extrapolation?

<2> with different charged particles hypothesis, calibration results should be different.

what are your opinions? many thanks.

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