Subject: Re: PndMicroWriter and pi0 reconstruction efficiency
Posted by Bertram Kopf on Tue, 03 Feb 2009 20:00:19 GMT
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Hi Stefano,

Stefano Spataro wrote on Tue, 03 February 2009 19:59Bertram Kopf wrote on Mon, 02 February 2009 21:37
After the bump splitting procedure the emc track matching should follow in the reco sequence. The bumps / cluster are then associated either with charged or with neutral particles. Then the energy and spartial correction should follow because the correction is strongly correlated to the assumed particle type. Therefore I would prefore to introduce objects like EmcChargedCand and EmcNeutralCand which then should be interfaced to the analysis part.

This part is done inside the PndMicroWriter, which fills PndChargedCandidates and PndNeutralCandidates TCA (TCandidate). The correlation depends on the tracking, then on the input that the user set to the MicroWriter. Inside the MicroWriter the code separates emc bumbs/cluster correlated to tracks to the uncorrelated.

I think the structure of the code is present, of course the algorithms require an improvement and were never tested for large amount of data.

Sorry. But the PndMicroWriter is only responsible for the convertion of the reco to the rho objects. The PndMicroWriter has definitely nothing to do with the reconstruction. The association between the cluster and charged tracks, the particle dependent energy and spatial correction and also the PID (together with the cluster track association) are parts of the reconstruction. Am I wrong?

Cheers,
Bertram.