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Subject: Re: PndMicroWriter and pi0 reconstruction efficiency  
Posted by [Bertram Kopf](#) on Wed, 04 Feb 2009 12:56:15 GMT  
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Hi Stefano,

Stefano Spataro wrote on Tue, 03 February 2009 21:09  
these are done inside lhetrack for the barrel tracking and are part of the reconstruction, but the MicroWriter is filling the neutral and charged candidates.  
I mean, the reconstruction provides EmcBumps/Cluster and track correlated to emc, and then MicroWriter separate the two different candidates creating the two TClonesArray.

I think that this is not the right way to realize the emc track matching, pid, etc. It is not a good idea to include this stuff only for specific track representations and for specific detector parts (e.g. barrel tracking (?!) ).  
The reco has to provide a track list with "abstract" track objects and based on this one should do the emc track matching. This makes sure that "all" track objects (independent on how and where they have been produced) can be treated in the same way, also w/o changing any code.

And I think that it would be the best solution to have a emc track matching inside the emc reco sequence because the particle typ dependant energy and position correction of the cluster should follow afterwards.

Cheers,  
Bertram.

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