Subject: Using Rho without MC info
Posted by Marcel Tiemens on Wed, 05 Aug 2015 14:33:48 GMT
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Hello Rho experts,

In order to evaluate my clustering algorithm in the PandaRoot framework, I would like to analyse the reconstructed clusters with Rho. Basically, I want to reconstruct the parent particle(s). However, after running a macro (which is based on ana_complete.C in /macro/run/, but could very well be flawed as I am no Rho expert), I get the following error (a lot):

Error in <BuildMcCands>: MC track Array does not exist.

My interpretation of this is that it looks for MC truth information, which is not there because the current implementation of the timebased simulation for the EMC is not yet compatible with MC backprogation (Tobias is working on this I understood). The absence of this information is not such a big problem at this stage, however. To circumvent this issue, I would like Rho to just take the EmcClusters from the reco macro and basically treat these as photon candidates and then continue the analysis under this assumption. The question is, I don't really know how. I guess it should be relatively easy, but can anyone tell me?

Also, just to check, to reconstruct a neutral pion, I would need to run something like
pion.Combine(gamma,gamma);
, correct? Where "pion" and "gamma" are RhoCandLists. This part, concerning neutral particles, is not covered in the Rho tutorial, which is why I'm asking.

Thanks a lot in advance!