Subject: Re: Mc Truth Match Posted by StefanoSpataro on Tue, 20 Aug 2013 14:18:03 GMT View Forum Message <> Reply to Message

Simone Esch wrote on Tue, 20 August 2013 16:09 I think it is not a good idea to put everywhere the 0.2 if something at the pid stage fails. Is there not a flag to indicate this, to be able to filter it out?

We have 5 particle hypothesis. If the pid algorithm fails, whatever it is, then all the 5 particles have the same probability -> 1/5 = 0.2 -> 20%. from the statistical point of view this is correct. Those tracks should not becut away, simply you don0t have pid information for them. The point is that one should cut with probability more than such 20%, maybe the Loose condition should be moved to 25% just to be safe.

## Quote:

I understand that the PidAlgoldealCharged just sets the right probability and nothing else, but still I thik that the name is then missleading. I thought i would use a somehow MC base algorythem which sets all characteristics right so that the FillList method really just pick the right ones.

If this is kept like this, this should be mentioned in the tutorial.

I have not understood, the PidAlgoldealCharged assigns the mc id to each candidate, as it should be, using the PndPidProbability object -> a mcpion will have probability of being a pion 1 and prog of e/mu/k/p = 0, so that this info can be used by FillList. This is not "ideal" parameters, this is ideal identification. The FillList picks the correct particles identified by MC.

In this sense, PidAlgoldealCharged is doing its job coherent with all the other algorithms, and I have not understood the last comment. Could you please be more explicit?

