Stefano Spataro wrote on Sat, 17 August 2013 16:36There are four ways for the MC association:

a) GetRecoCandidate()->GetMcIndex()
b) GetMcTruth()
c) PidIdealCharged algorithm
d) McTruthMatch

Why don't you start from the first one a), as suggested several messages ago, which will work for sure? (at least it is the standard)
You can try also b), which should work also. If the truth pointer is not associated, it means that most probably the track is made of noise hits (i.e.mvd oixels), then there is no MC association.

c) and d) could have still problems, but if you use one to check the other we cannot understand a lot.

Simon and I have just discussed this issue and we will write a macro checking possible problems in trunk. We believe that filling four lists (one for each way of accessing the mc truth information) of a given particle type -- let's say pions -- for some simulation would be the best way. Each list will be cross-checked with each of the other methods. We expect to be able to give you an update by the end of the week.