Subject: Re: problem with TPC recotasks
Posted by Sebastian Neubert on Wed, 26 Mar 2008 17:01:52 GMT
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Hi!

The track finding is done with monte carlo ids in the demo. So if there have been secondaries they will appear in the track list. This can in principle even happen for delta electrons! Check the momentum of your tracks.

The momentum that has been reconstructed looks too low in most cases. At the moment I do not have an idea why this is so.

Charge reconstruction can go wrong for backward going tracks (theta>90deg) because of the issue of direction of flight versus direction of curvature. I do not remember now how it was done in the demo, but its an issue which has to be worked on. In general you cannot decide apriori which choice of sign is right because you do not know in which direction the particle flew. Only simple arguments are used at the moment.

Unfortunately I will not be able to work on this this week.

Regards, Sebastian.