Subject: PndLhePidTrack
Posted by donghee on Wed, 31 Mar 2010 07:59:57 GMT
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Dear colleagues,

I have generated the electron in the 90 < theta < 100 (degree) range
with 2.5 GeV to 3.5 GeV momentum.
Total 945 events are reconstruced with using PndLhePidTrack class from 1000 events. TPC and MVD are simply working. and GEM is not
interested in this kinematic range.
And then Pid Candidate has been compared with MC true.
Pandaroot version is slightly old as the v.7878, that's mean some
bug, which are reported during last month(March), are still within there. However the usage of PndLhePidTrack seems to be ok at reco task!

But in the final check, resolutions are too bad and simply wrong with PndLhePidTrack approach. Momentum resolution is about 20~30%, that is not usual because it must be below 5%.

I'm wondering that PndLhePidTrack is not meaningful in this time.
or is the problem related with sets of bugs with MVDcluster and etc..., that was posted in last few weeks?

So you can see resolutions for momentum, theta and phi.
Thanks.

File Attachments

1) res_all_2.eps, downloaded 580 times