Subject: Study of tracking efficiency and resolution
Posted by donghee on Tue, 02 Oct 2012 20:21:55 GMT
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Hi PANDAroot experts,

I'm posting my simulation macros for track reconstruction study which I have shown in the PANDAroot meeting at 2.Oct.
Also, the presentation is enclosed in this post.
In this study, I tried to show the resolution and efficiency of single particle using both target and forward track reconstruction.
I am afraid that I was going the wrong way while doing this test.
Please let me know if you find something wrong in this macros.
I used the july12 release version of PANDAroot.

I would like to understand two issues.
How will the resolution be improved when the forward track is added into the track reconstruction. (A bug is in the analysis macro?)
Why the efficiency of low momentum tracks are significantly dropped down in the region of theta > 90 degree (backward directed track).

ps, I don't know how can I put these files via SVN...

Thank you for your interest and help in advance.
Donghee

File Attachments

1) run_track_sim.C, downloaded 510 times
2) run_track_dig.C, downloaded 502 times
3) run_track_rec.C, downloaded 486 times
4) run_track_pid.C, downloaded 483 times
5) run_track_his.C, downloaded 514 times
6) Group_Meeting_2012_10_2.pdf, downloaded 488 times