Subject: First check of CATracking
Posted by StefanoSpataro on Wed, 17 Jun 2015 08:50:27 GMT
View Forum Message <> Reply to Message

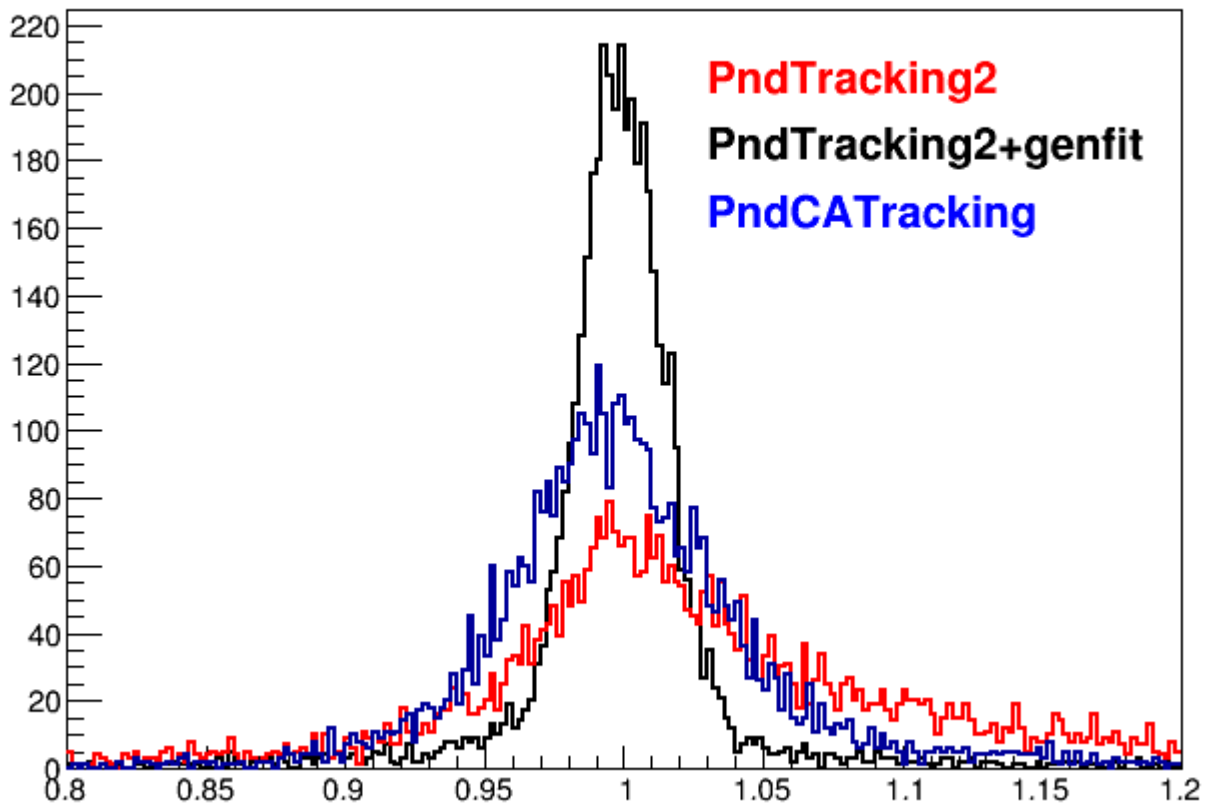
Hi all,
i tried to check the output from the Cellular Automaton code (PndCATracking).
I run 1000 events with 5 muons per event, 1 GeV/c each, for 25° < theta < 120°.

Here the momentum distribution from pure Gianluigi PR (PndTracking2), adding also the kalman (PndTracking2+genfit), and with the CA (PndTracking CA):

It seems that the CA provides better results than standard PR, but worse than adding also genfit. This means most probably that on the top of the CA one should also run our Kalman Filter. At present, due to a bug in the PndTrackCand filling, this is not possible.
Regards

File Attachments

1) comp_5mu1gev.gif, downloaded 1739 times



Subject: Re: First check of CATracking

Posted by Tobias Stockmanns on Wed, 17 Jun 2015 09:15:29 GMT
View Forum Message <> Reply to Message

Dear all,

I fixed the bug in the PndTrackCand filling so that the correct DetID is now stored. Please update to the latest trunk (27889).

Cheers,

Tobias

Subject: Re: First check of CATracking
Posted by StefanoSpataro on Wed, 17 Jun 2015 10:16:53 GMT
View Forum Message <> Reply to Message

Thanks,
I tried but the momentum is the same, it seems genfit is always failing. Maybe there are more problems in the output PndTrack.