Subject: Re: GENFIT for transverse momenta < 200 GeV/c strange?!
Posted by Lia Lavezzi on Fri, 19 Nov 2010 15:22:08 GMT
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Hi David and all others,
   I made some tests and I really think the problem is the cut in GeaneTrackRep for low momentum particles: though your starting momentum is not too low (the limit is 100 MeV/c of total momentum), the particle loses energy and often falls in that exception at a certain point.

Since the cut was put there when GEANE was unstable, but now several fixes have been added, I think we could get rid of it.
I uploaded a version of GeaneTrackRep with that cut commented out, so that, if we see that it still crashes, it will be easily restored.

I tried a run without that cut and everything worked fine. Now the Kalman filter is better than the Helix, so I am confident that we can keep GeaneTrackRep without the cut.

Can you please update your GenfitTools and retry to run the events to confirm/deny my results?

        Have a nice week end,
                Lia.

File Attachments
1) momtransv.ps, downloaded 331 times