Subject: Re: Start and stop values from PndRecoKalmanTask
Posted by StefanoSpataro on Tue, 13 Aug 2013 14:31:42 GMT
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In reality we have seen some strange thing like this together with Lia, where fome some tracks the difference between the first and the final momentun is very large or also negative.
We believe there is something weird in genfit, but up to now we were not able to udnerstand what is going wrong.

However, you could try to do add the following line in the kalman part:

kalmanttask->SetPropagateToIP(kFALSE);

In this way it neglects the backpropagation from the first hit to the interaction point, which is dangerous in the case the particles are emitted "far" from the IP.
Just to take out this possible noise source.

Question: have you selected ony the fitted tracks? The non fitted tracks (flag<=0) should be bad.

The other point could be that inside the trackcand the hits are not well sorted. I admit I never checked the ideal mvdsttgem trackcand, but this is easy to check.