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Subject: double tracks in offline Pattern Recognition  
Posted by [Gianluigi Boca](#) on Thu, 18 Sep 2014 14:26:13 GMT  
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dear collaborator,  
as I said at the last collaboration meeting, I am finalizing the offline pattern recognition.

Presently there is a version of it in svn not complete yet.  
Because of that, for every MC truth physical track 2 tracks  
are reconstructed by the pattern recognition, essentially one clone of the other.  
So please don't be alarmed, I am finishing that piece of code right now and I think that in 1  
week or 2  
that feature will be eliminated

Gianluigi

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Subject: Re: double tracks in offline Pattern Recognition  
Posted by [Gianluigi Boca](#) on Mon, 29 Sep 2014 17:38:30 GMT  
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dear collaborators,  
please find in svn the new version of

tracking/PndTrkTracking2.cxx  
tracking/PndTrkTracking2.h  
trackittracking/PndTrkCTFindTrackInXY2.cxx

Now the problem of the double tracks was eliminated.  
Please let me know if you have problems

Gianluigi

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Gianluigi

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Subject: Re: double tracks in offline Pattern Recognition  
Posted by [StefanoSpataro](#) on Wed, 01 Oct 2014 14:56:57 GMT

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Hi all,

I run the new code and compared the results of the standard analysis macro ( $\psi(2S) \rightarrow J/\psi \pi^+ \pi^-$ ), in blue you can see the "old" (february) results and in "red" the new ones.

You can see a bit of increase in efficiency, resolution is consistent. I would say that this version of the tracking code can be used by the analysts and can be included in the release.

Later I will check cleanup.

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#### File Attachments

1) [comp.gif](#), downloaded 984 times

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