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Subject: new code released for tpc

Posted by [Sebastian Neubert](#) on Sun, 03 Jun 2007 21:06:42 GMT

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Hi!

There is now a subdirectory in tpc called tpcresco. It contains code which is compiled into libtpcresco.so and provides a first track reconstruction for the tpc.

I have reimplemented a conformal map track follower following the star papers. However I use genfit to do the fitting in the conformal space and up to now I only use the x'/y' plane not s/z. Furthermore up to now track-pieces are not merged.

Some quick checks with two-pion events show that the track finder works. Of course there is a universe of tuning still ahead.

Well at least its a step forward .

CU Sebastian.

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Subject: Re: new code released for tpc

Posted by [Sebastian Neubert](#) on Wed, 06 Jun 2007 02:01:35 GMT

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Hi!

With revision 833 there comes an upgrade of the TPC track finder. Now the sz-fit is used and a problem with singularities in the conformal map straight line fit was solved.

Tracklet merging is not yet done. So all tracks are reconstructed in one piece. Splitups are not taken care of.

I consider this as a first working solution for track finding in the TPC.

Hope to show some plots soon!

CU! Sebastian.

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