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Subject: lhetrack for global tracking

Posted by [Jens Sören Lange](#) on Sun, 23 Mar 2008 14:42:00 GMT

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Dear all,

I checked in a preliminary version of lhetrack for global tracks (tpc and mvd). As mentioned before, only very small changes were applied to Oleg's code (the trick is that I treat mvd points as tpc points), so the main work was only to find, which few lines had to be changed. In this version there are also no crashes anymore if tpc has zero hits (= forward tracks).

1.) macro/lhetrack/run\_sim\_tpcmvd.C

-> runs Geant for tpc and mvd  
-> write out "points\_tpcmvd.root"

2.) macro/lhetrack/run\_track\_tpcmvd.C

-> runs the track finder  
-> runs the track fitter  
-> writes out "tracks\_tpcmvd.root"

3.) macro/lhetrack/plot\_pT.C

loops over all tracks and plots the pT distribution.

4.) if you want to switch off the MVD from the tracking  
(so that only TPC is used in track finding)

in lhetrack/PndTpcLheHitsMaker.cxx

in line 27 please comment like this:

```
///#define MVD
```

and then

```
cbuild/make  
cbuild/make install
```

The few slides from the last meeting with the results are posted here

[http://panda-wiki.gsi.de/pub/Computing/Minutes19March2008/Lange\\_PandaRoot19032008.pdf](http://panda-wiki.gsi.de/pub/Computing/Minutes19March2008/Lange_PandaRoot19032008.pdf)

P.S. the covariance matrix needs some more time.

cheers, Soeren