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Subject: GEANE and GENFIT

Posted by [Sebastian Neubert](#) on Tue, 08 Apr 2008 09:33:31 GMT

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Hi!

The genfit demo is running now with geane! Several things have been fixed, so that it is also possible now to read back Tracks with a GeaneTrackRep into ROOT.

If you check out revision 2436 the relevant changes in trackrep/ genfit/ and recotasks/ should be available. The demo should run out of the box:

```
> root -l -q recotasks/demo/runMC.C
> root -l -q recotasks/demo/runDemo.C
> root -l -q recotasks/demo/plotDemo.C
```

this will run the fit with the LSLTrackRep.

To change to GEANE look into runDemo.C and activate Geane:

```
DemoDemoPatternRecoTask* DemoPR = new DemoPatternRecoTask();
DemoPR->AddHitBranch(2,"PndTpcPoint");
// DemoPR->AddHitBranch(3,"MVDPoint");
DemoPR->SetPersistence();
//DemoPR->UseGeane(); // uncomment this line!
fRun->AddTask(DemoPR);
```

In the plotDemo.C macro it is also shown how you can access fit information from the ROOT command line, with a simple draw command.

Unfortunately not everything is going correctly. Here are the resulting plots (Tracks of 500MeV, Theta=40deg):

For LSLTrackRep:

For GeaneTrackRep:

I will look into that... Maybe someone could try the macro, if the behaviour can be reproduced..?

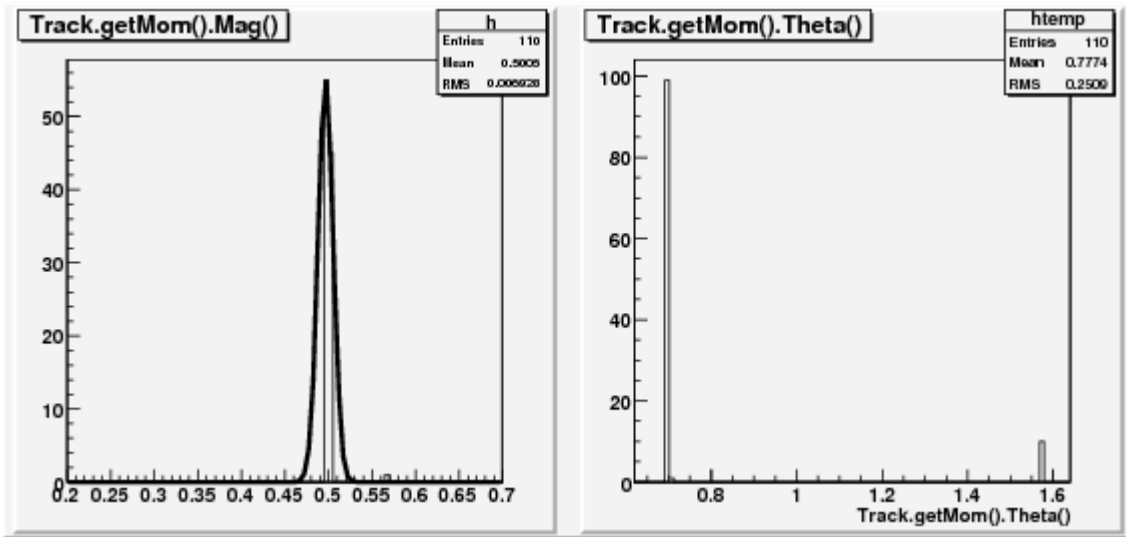
Cheers! Sebastian.

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## File Attachments

1) [LSL.png](#), downloaded 743 times

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2) [geane.png](#), downloaded 817 times

