Subject: Re: GEM Tracking inside LHETRACK
Posted by Ralf Kliemt on Fri, 26 Jun 2009 14:56:28 GMT
View Forum Message <> Reply to Message

Hi all.

As feedback/comment I reproduced Stefanos Plots with 1000 pions each at 1 GeV/c. Theta ranges from 20 to 140 Deg. Just to check if there is no big flaw.

You need to implement the gem library with gSystem->Load("libGem");.

Simulation:

```
FairDetector *Gem = new PndGemDetector("GEM", kTRUE);
Gem->SetGeometryFileName("gem_3Stations.root");
fRun->AddModule(Gem);
```

Digi & Reco:

```
// -----   GEM hit producers   --------------------------------
PndGemDigitize* gemDigitize = new PndGemDigitize("GEM Digitizer", iVerbose);
fRun->AddTask(gemDigitize);

PndGemFindHits* gemFindHits = new PndGemFindHits("GEM Hit Finder", iVerbose);
fRun->AddTask(gemFindHits);
```

Find the parameters in pandaroot/macro/params/all.par

Add to LHETrack with:

```
trackMS->SetGemMode(2);  // 0 OFF, 1 GEMPoint, 2 GEMHit     // GEMPoint smearing [cm], if negative no smearing
```

Here the plots with STT

and TPC

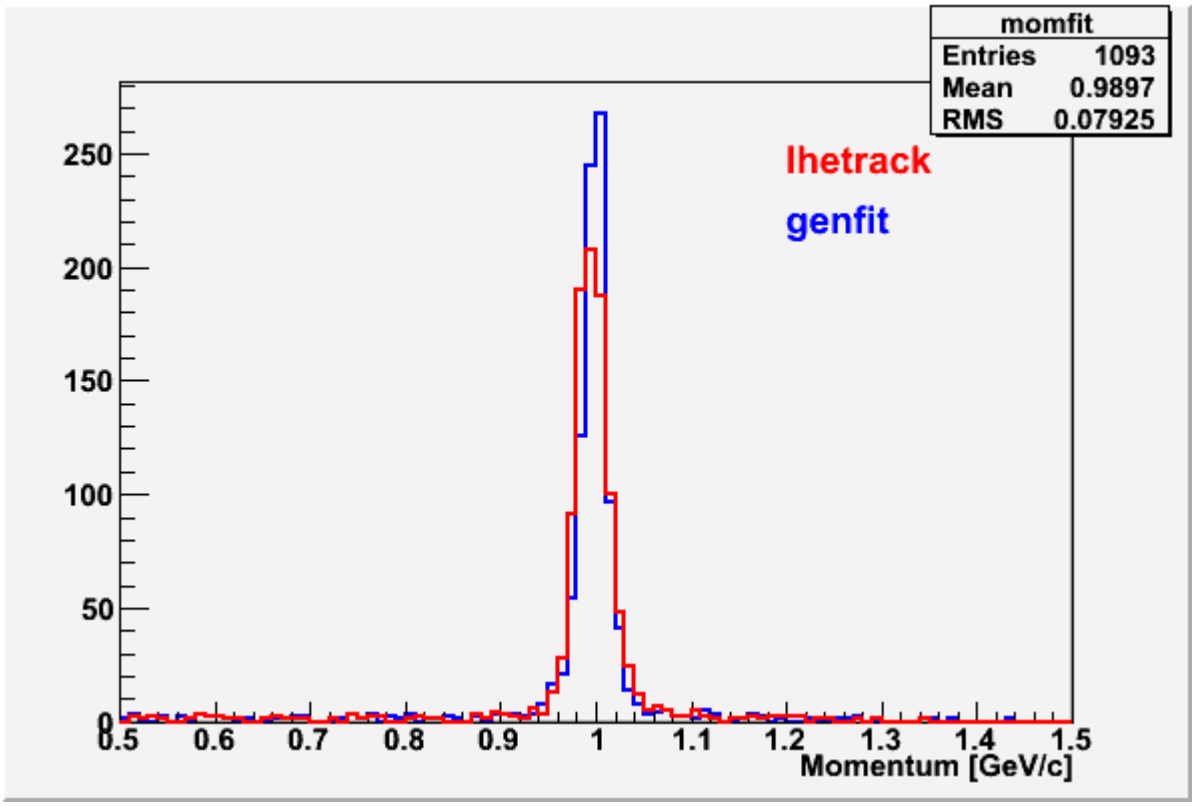
I will update the Torino tutorial macros in pandaroot/tutorials/analysis.

Thanks to Stefano.

Cheers, Ralf.

File Attachments

1) 1kpionsMvdTpcGem.png, downloaded 1042 times



2) 1kpionsMvdSttGem.png, downloaded 1083 times