
Subject: STTPoints do not match with STTHelixHit

Posted by [Tobias Stockmanns](#) on Wed, 22 Apr 2009 12:21:15 GMT

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Dear pandaRooters and STT experts,

I have simulated D+ D- events with the MVD and STT. During the analysis of the output of the simulation I have realized that there is a significant difference between the STTPoint coordinates (Xtot, Ytot, Ztot) which should give the MC coordinate of a hit and the reconstructed position in SttHelixHit.

I have attached a corresponding Eve plot:

The red small squares are the MC coordinates the colored boxes are the reconstructed hits. The innermost points come from the MVD the rest ist STT data.

For the reconstruction of the STT points I have used:

```
PndSttTrackFinderIdeal  
PndSttMatchTracks  
PndSttHelixTrackFitter(0)  
PndSttHelixHitProducer;
```

The macros can be found in /macro/mvd/Tobias/runMvdSim -> runMvdDigi -> runMvdReco.

Is this an expected behavior or is there something going wrong?

Thank you for your help.

Tobias

File Attachments

1) [STTPointsAndHits.png](#), downloaded 1090 times

