

Subject: Re: Weird STT reconstruction: efficiency depends on charge

Posted by [Andrew Savchenko](#) on Mon, 21 Jan 2008 14:49:42 GMT

[View Forum Message](#) <> [Reply to Message](#)

Dear Pablo,

Pablo Genova wrote on Mon, 21 January 2008 15:03

ps: it is possible to reconstruct both transverse and total momentum. I should put a test macro for displaying such variables.

Yes, you are absolutely right, it is rather simple indeed.

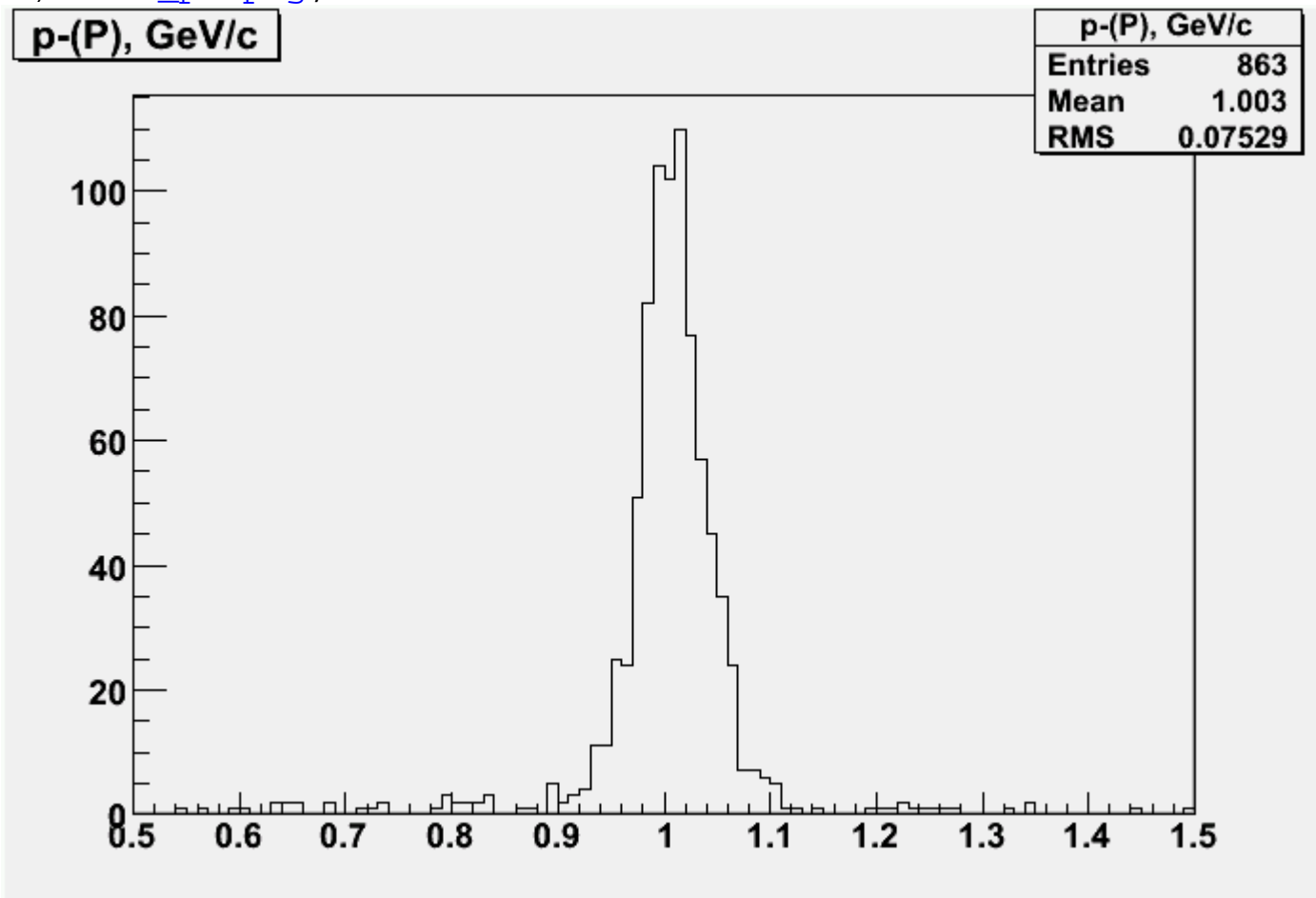
I reconstructed the total momentum for protons and antiprotons with original momentum 1.0 GeV/c and polar angle theta 60°.

For antiprotons I used only those with  $50^\circ < \theta < 70^\circ$ , and momentum reconstruction is reliable in this case.

And for protons radius is not reconstructed at all. I hope, this will help.

### File Attachments

1) [Pabs\\_p-.png](#), downloaded 749 times



2) [R\\_p+.png](#), downloaded 729 times

**STTTrack.fParamLast.fTx**

| htemp   |        |
|---------|--------|
| Entries | 1008   |
| Mean    | -943.8 |
| RMS     | 273.8  |

