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

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

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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°.

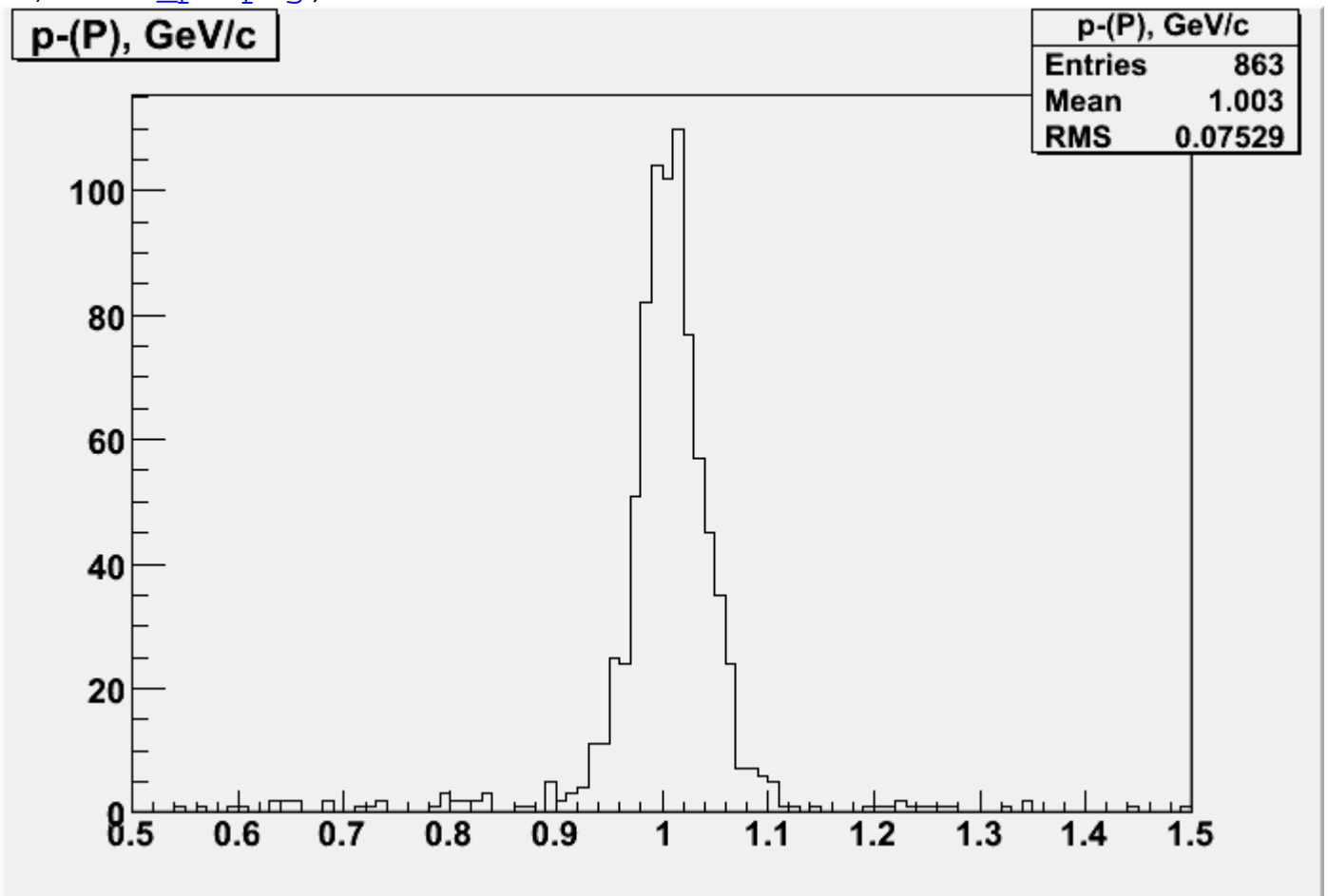
For antiprotons I used only those with 50° < theta < 70°, and momentum reconstruction is reliable in this case.

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

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### File Attachments

1) [Pabs\\_p-.png](#), downloaded 1168 times



2) [R\\_p+.png](#), downloaded 1049 times

STTTrack.fParamLast.fTx

htemp

Entries	1008
Mean	-943.8
RMS	273.8

