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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  $50^\circ < \theta < 70^\circ$ , and momentum reconstruction is reliable in this case.

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

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#### File Attachments

- 1) [Pabs\\_p-.png](#), downloaded 439 times
  - 2) [R\\_p+.png](#), downloaded 439 times
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