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Subject: Re: eta\_c reconstruction efficiency  
Posted by [Lia Lavezzi](#) on Fri, 07 Oct 2011 09:19:55 GMT  
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Hi Dima,

I performed some test with the etac channel, both in july11 and aug11 releases.

I can confirm that the problem of the efficiency loss arises already after the reconstruction, so after the PR + Kalman step.

I attach here two files with the reco - MC momentum distributions for the primary tracks coming from etac: etacjul11.pdf and etacaug11.pdf. You can see that in aug11 there is the efficiency drop.

Unfortunately this was not visible with box generated muons @ 1 GeV/c (see boxgenjul11.pdf and boxgenaug11.pdf attached here).

So indeed the problem seems in the tracking part (I have to take back what I said at the last tracking EVO )

Ciao,  
Lia.

P.S.: forgot to mention: the purple number on the histos is the integral of the histo between the two dotted lines.

#### File Attachments

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- 1) [etacjul11.pdf](#), downloaded 427 times
  - 2) [etacaug11.pdf](#), downloaded 392 times
  - 3) [boxgenaug11.pdf](#), downloaded 397 times
  - 4) [boxgenjul11.pdf](#), downloaded 403 times
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