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

1) etacjul11.pdf, downloaded 483 times
2) etacaug11.pdf, downloaded 451 times
3) boxgenaug11.pdf, downloaded 462 times
4) boxgenjul11.pdf, downloaded 458 times