Subject: First test with fast sim: Ds(2536)+
Posted by Elisabetta Prencipe (2) on Thu, 03 Apr 2014 14:40:58 GMT
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Dear all,

I am trying to do again my simulations with the fast sim (trunk-rev-24275), and compare the results obtained with the full simulation.

I am not sure if I am doing the proper comparison, this is why I post plots and numbers which I obtain and ask to the physics convenors.

So, the channel under exam is:

I show you a comparison between the number of entries obtained in case I plot the mass (full simulation) and "m" (fast simulation). Here attached you can look at some distributions.

Looking at the distributions obtained from the fast simulation, their shape look similar to the ones obtained from the "tr\_pid" in the full simulation. So, I guess this is what we should compare. Correct?

Here attached are some distributions of interest. Please do not be worry because of the fact that the efficiency of Ds1' looks so low: in the analysis I will use the missing mass of the Ds- to reconstruct it., and it improves a lot actually. Here I am just checking consistency with the full reconstruction of all decay products in this chain.

Best regards, Elisabetta

## File Attachments

- 1) D2535\_trpid\_full10k.eps, downloaded 547 times
- 2) D0\_trpid\_full10k.eps, downloaded 535 times
- 3) Ds\_trpid\_full10k.eps, downloaded 552 times
- 4) Ds\_fast.eps, downloaded 552 times
- 5) D0\_fast.eps, downloaded 534 times