Subject: Re: Eta\_c efficiency

Posted by Dima Melnychuk on Tue, 29 Nov 2011 13:43:57 GMT

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Hi,

With the latest STT reconstruction update the following results are obtained for eta\_c channel with data produced on grid.

run926 (99500 events, copy of one file (500 events) fails) Invariant mass distribution:

Reconstruction efficiency - 25.8%, result is good but again somehow lower than I obtained with 1000 events (30.9%)

sigma(eta\_c)=31.6 MeV, sigma(phi)=3.87 MeV

With cleanup - run926cu

Efficiency drops to 18.1%, but still is reasonable. sigma(eta\_c)=28.7 MeV, sigma(phi)=3.70 MeV

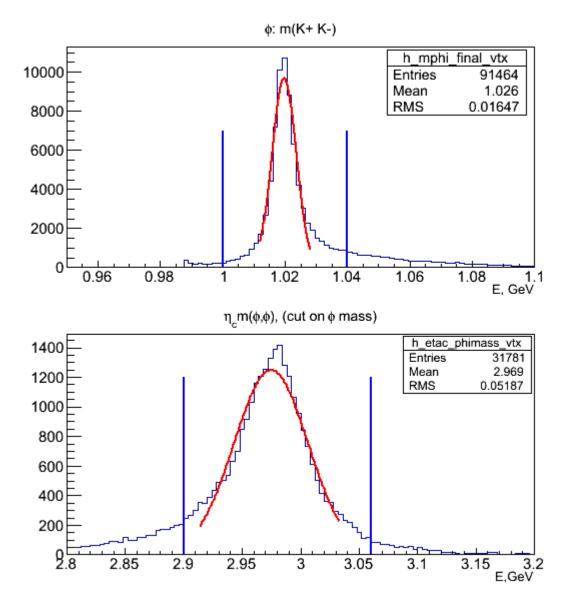
And here are the multiplicities of charged tracks, without and with cleanup:

So I still try to understand why on grid efficiency is lower than I have locally, but otherwise data look reasonable.

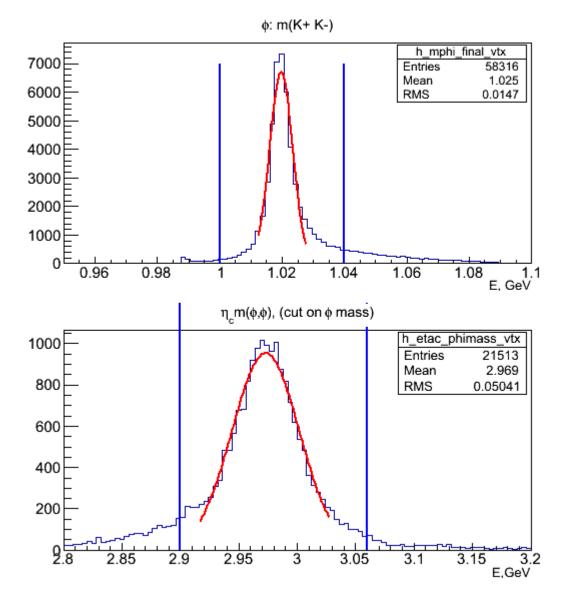
Dima

## File Attachments

1) mfinal\_926.png, downloaded 894 times

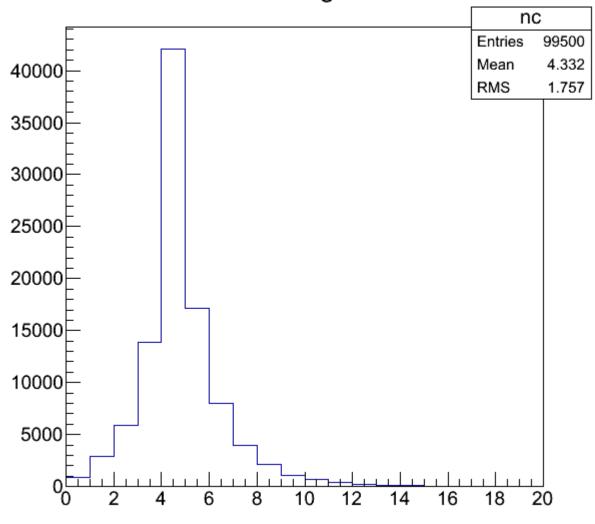


2) mfinal\_926cu.png, downloaded 875 times



3) n\_charged926.png, downloaded 799 times

## n charged



4) n\_charged926cu.png, downloaded 872 times

## n charged

