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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.

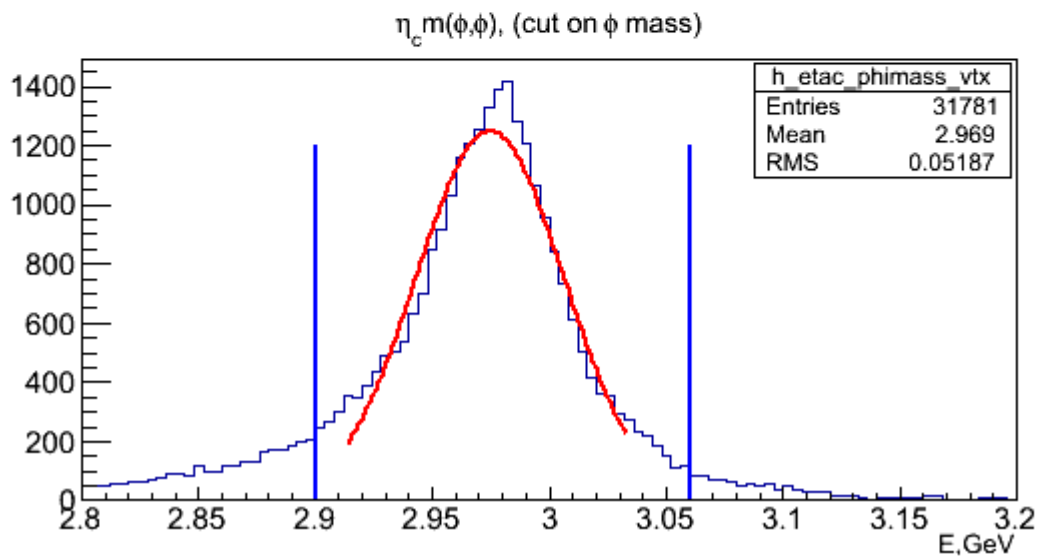
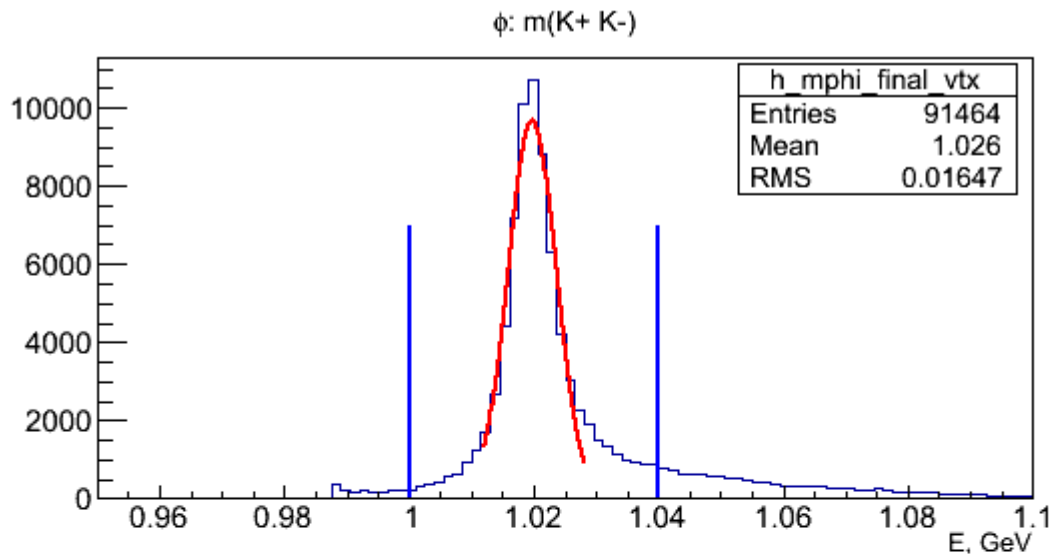
Dima

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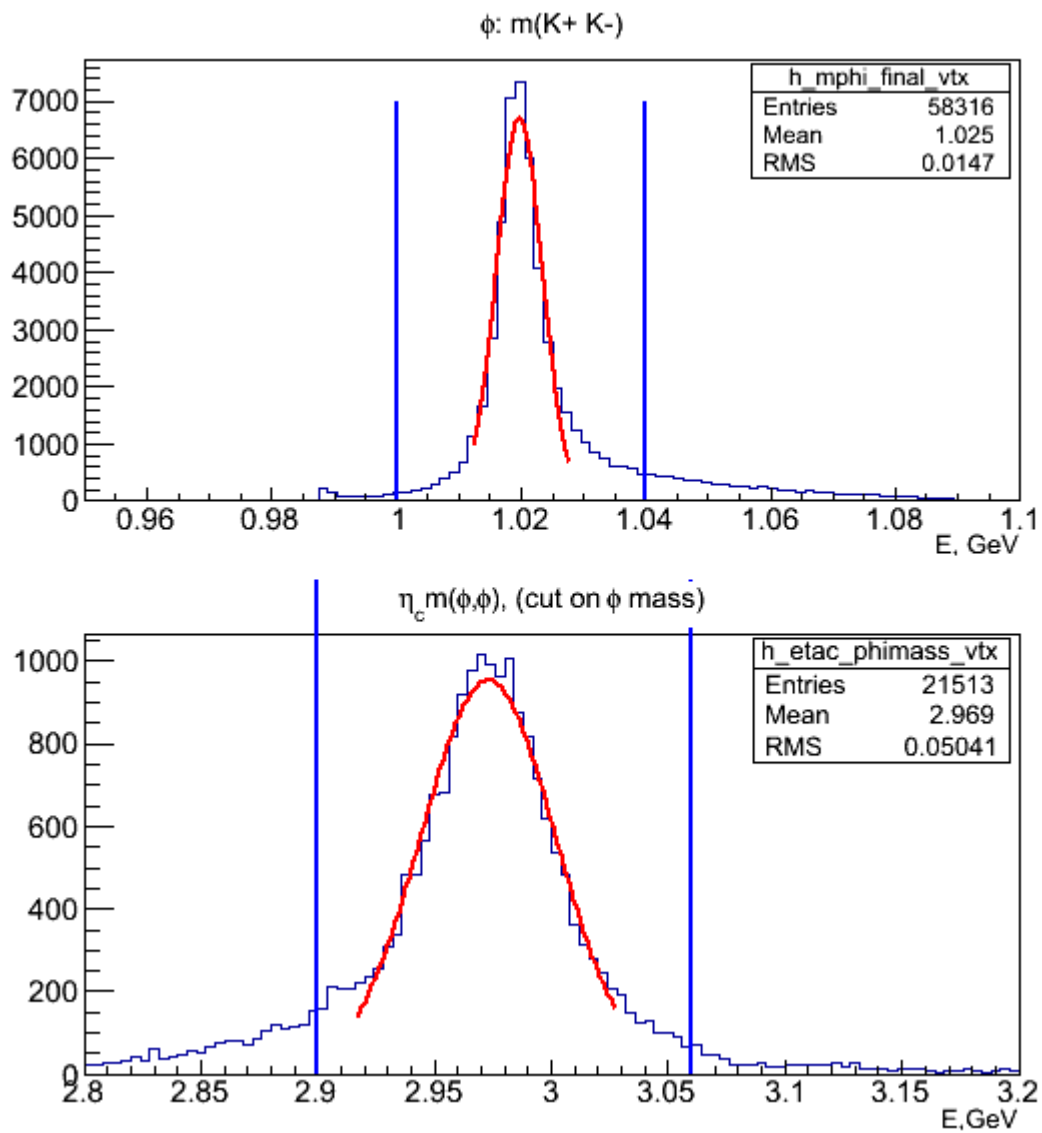
### File Attachments

1) [mfinal\\_926.png](#), downloaded 999 times

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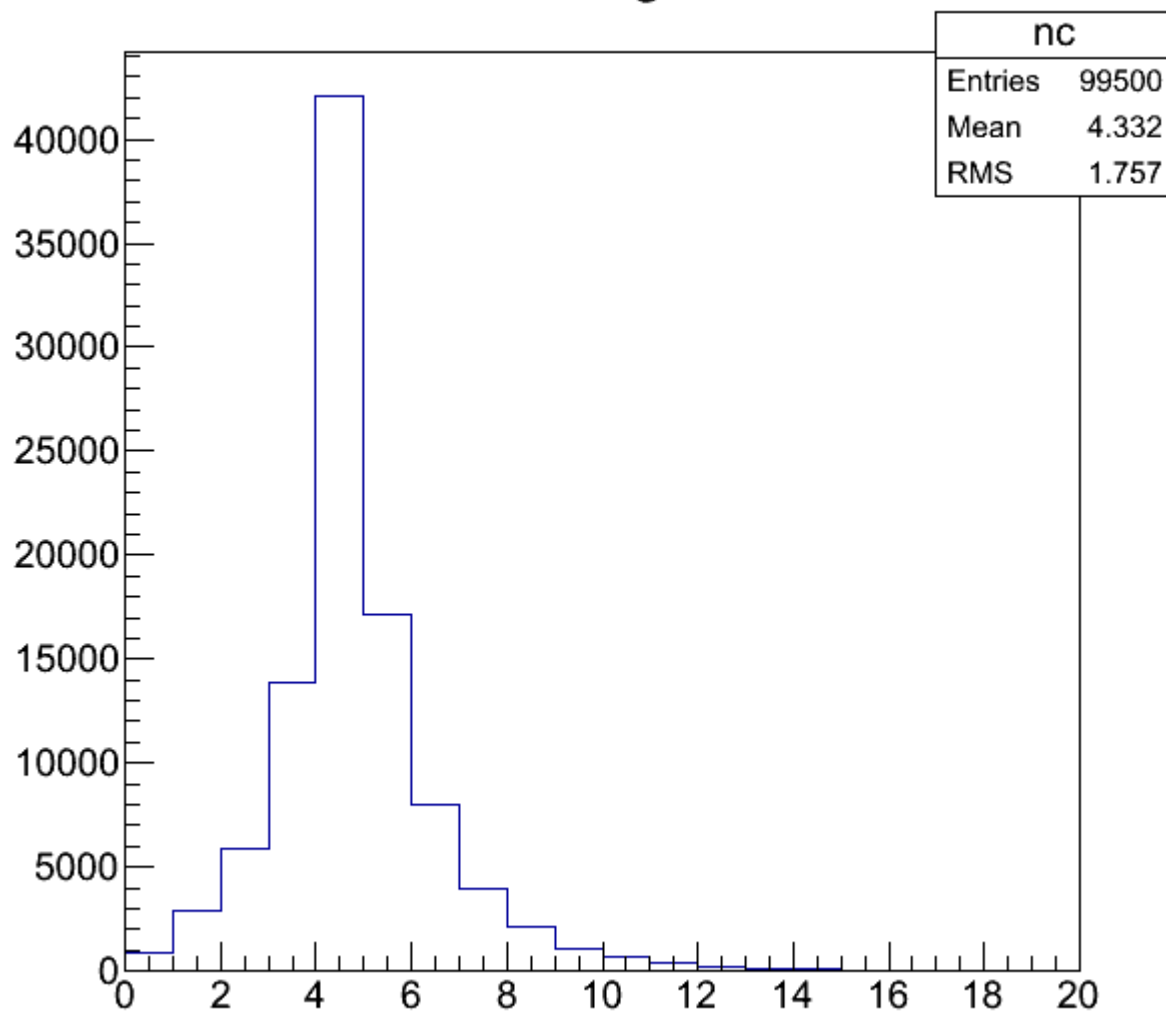


2) [mfinal\\_926cu.png](#), downloaded 980 times



3) [n\\_charged926.png](#), downloaded 869 times

## n charged



4) [n\\_charged926cu.png](#), downloaded 968 times

# n charged

