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

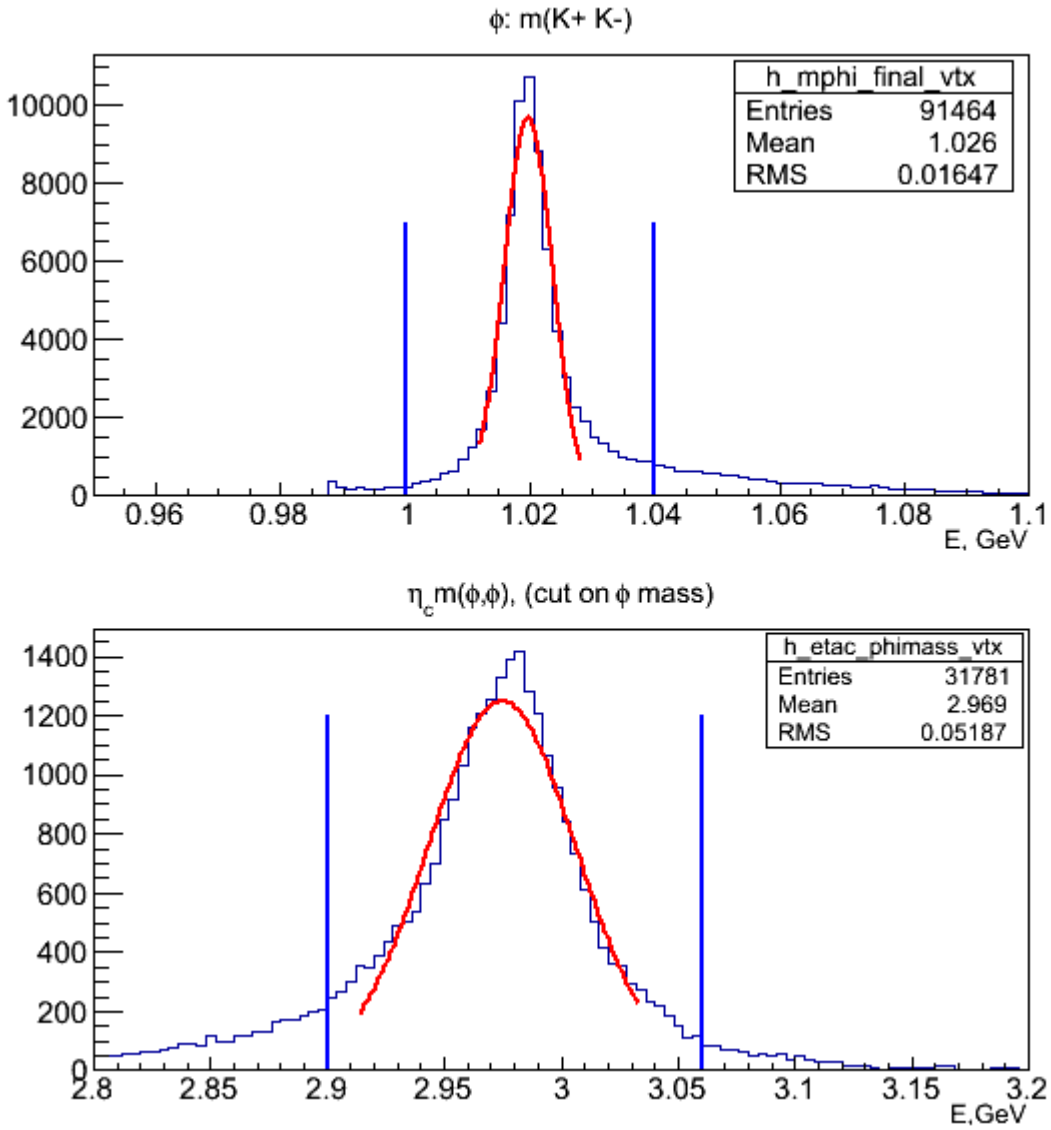
And here are the multiplicities of charged tracks, without and with cleanup:

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

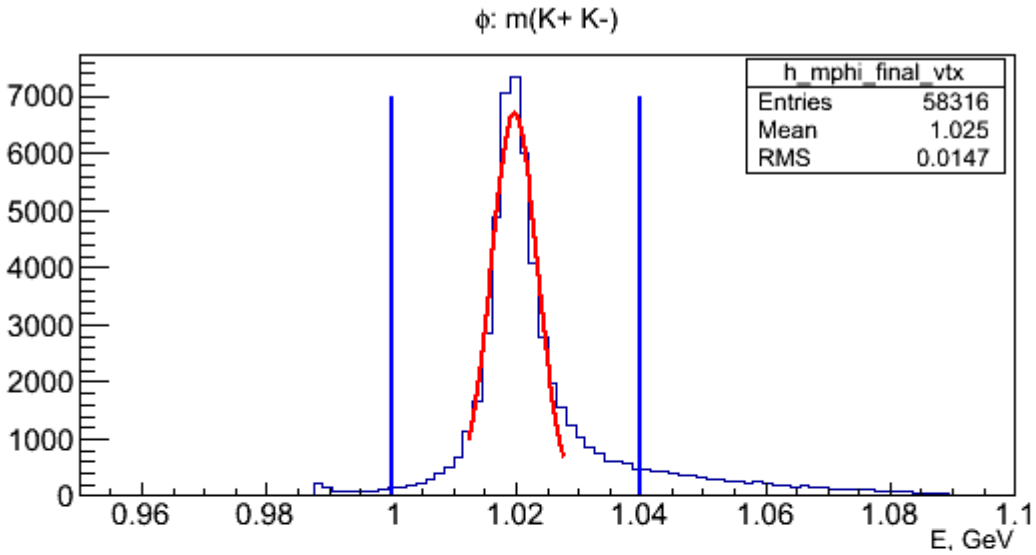
Dima

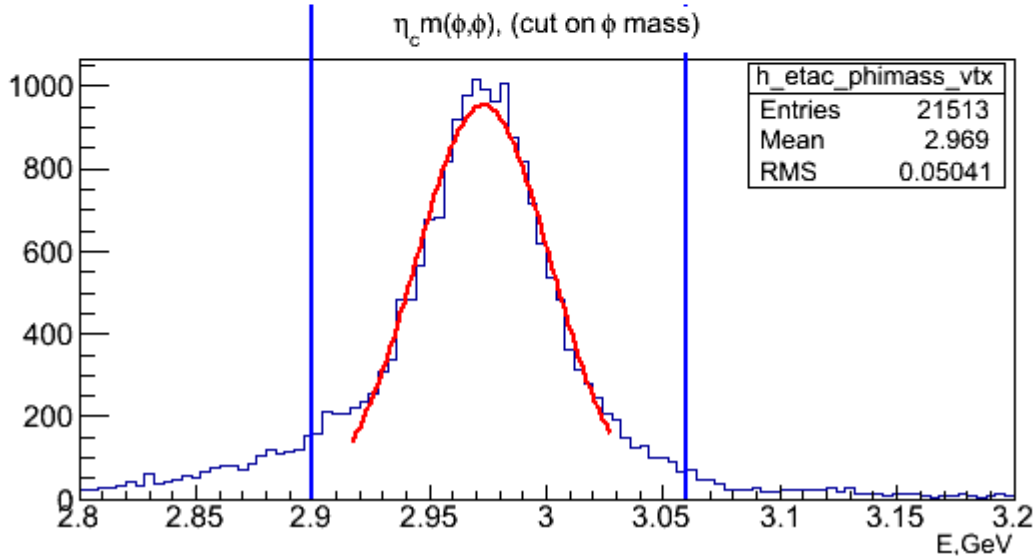
## File Attachments

1) mfinal_926.png, downloaded 1380 times

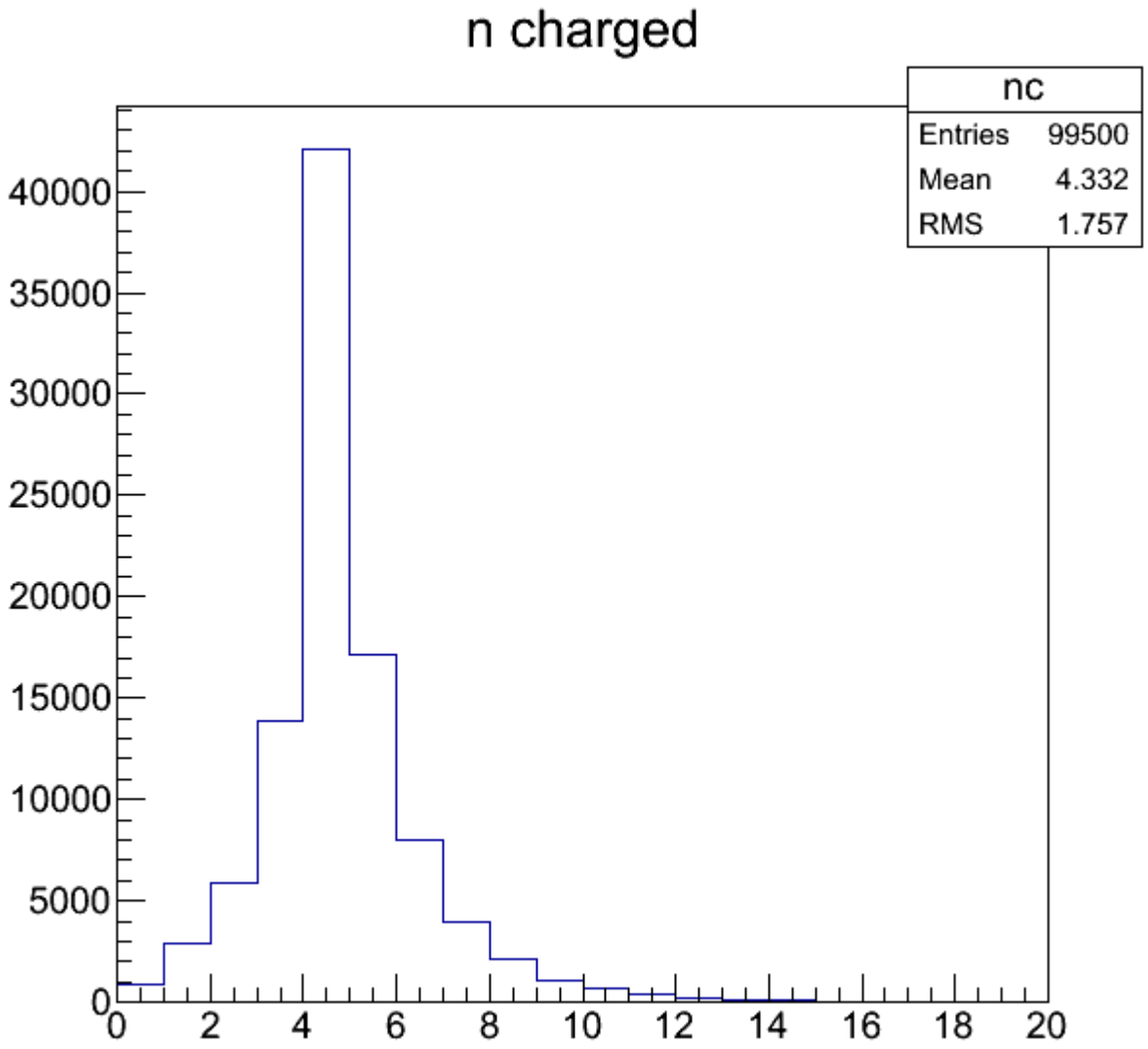



2) mfinal_926cu.png, downloaded 1357 times

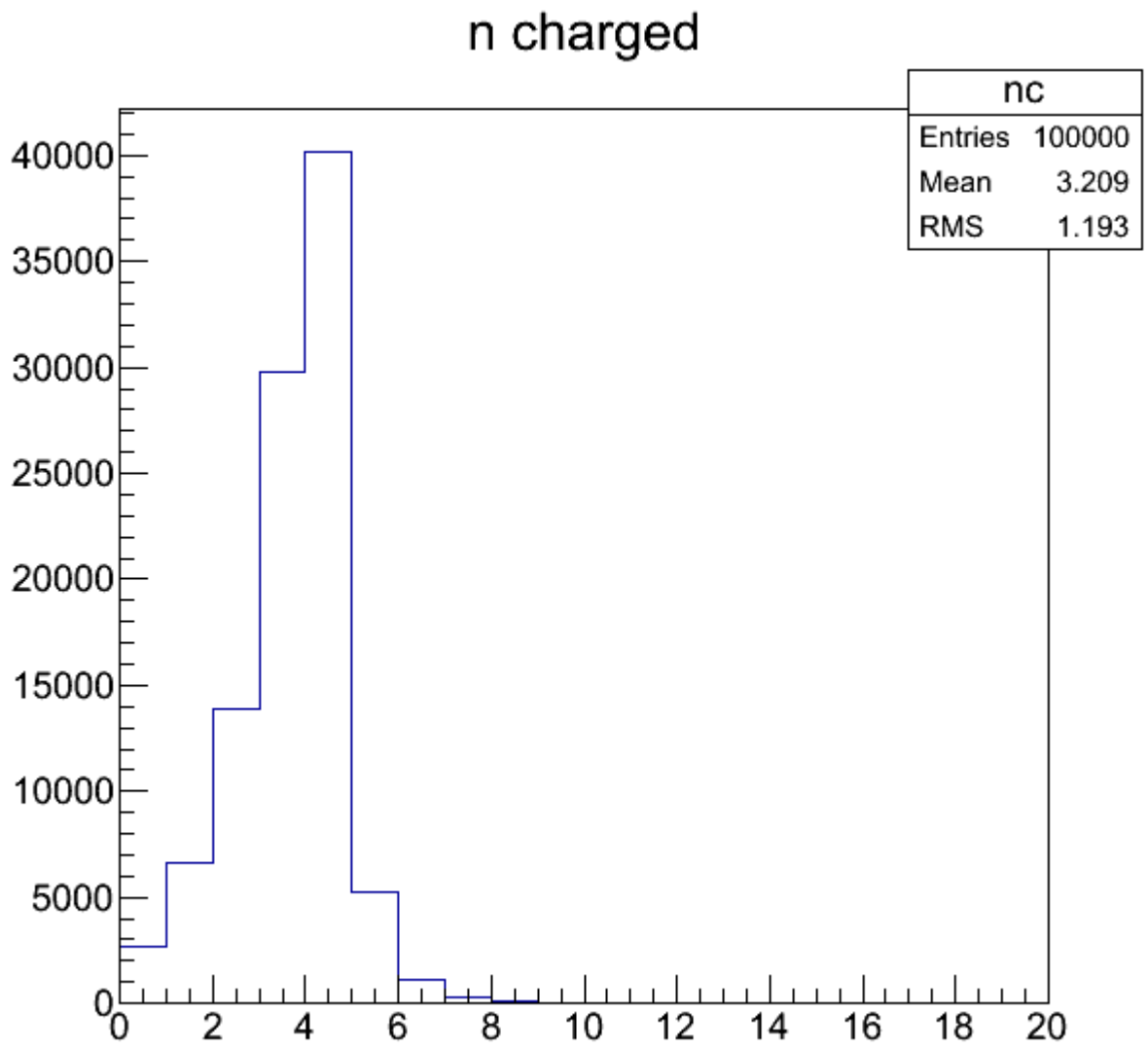



3) n_charged926.png, downloaded 1222 times




4) n_charged926cu.png, downloaded 1382 times


n charged
nc
Entries 100000
Mean 3.209
RMS 1.193
40000
35000
30000
25000
20000
15000
10000
5000
0
0 2 4 6 8 10 12 14 16 18 20