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Subject: eta\_c with event mixing for STT  
Posted by [Dima Melnychuk](#) on Mon, 29 Aug 2011 22:35:11 GMT  
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Dear colleagues,

I have analysed the eta\_c data produced on the GRID with event mixing, and at the moment I still do not understand the results.

But I just want to share some plots to show the current status.

So multiplicity of charged tracks:

Only 8% of events have  $\geq 4$  tracks which is much lower than 72% without event mixing.

Invariant mass of phi and eta\_c with preselection on phi mass window:

Here there is no indication of phi or eta\_c peak.

And applying MC Truth PID does not change this distribution much.

And finally only 4 events out of 100k pass the selection cuts.

So the results still have to be understood.

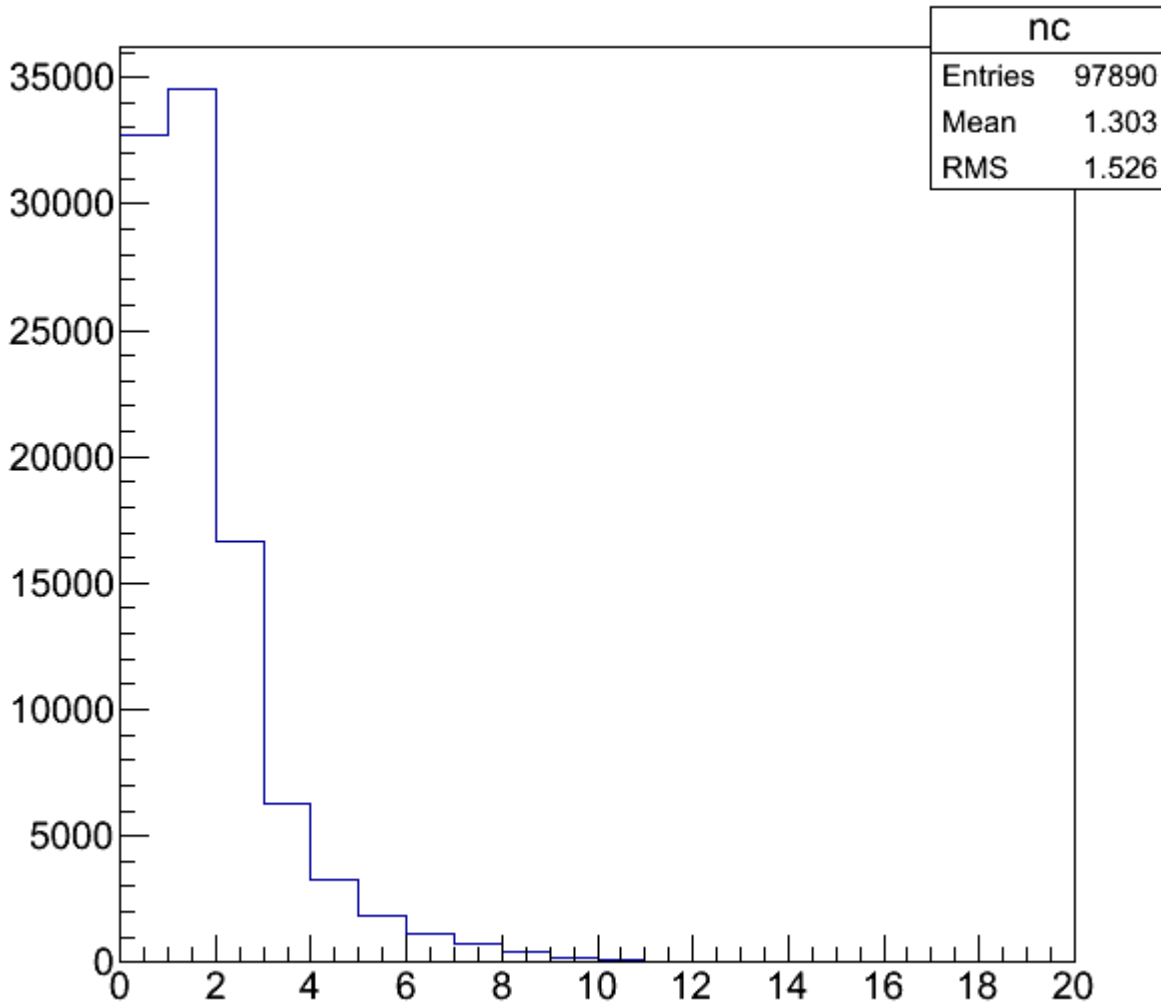
Dima

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### File Attachments

1) [n\\_charged\\_stt.png](#), downloaded 697 times

# n charged



2) [m\\_nocuts\\_stt.png](#), downloaded 741 times

