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 analaised 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 >=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 aplying MC Truth PID does not change this distribution much.

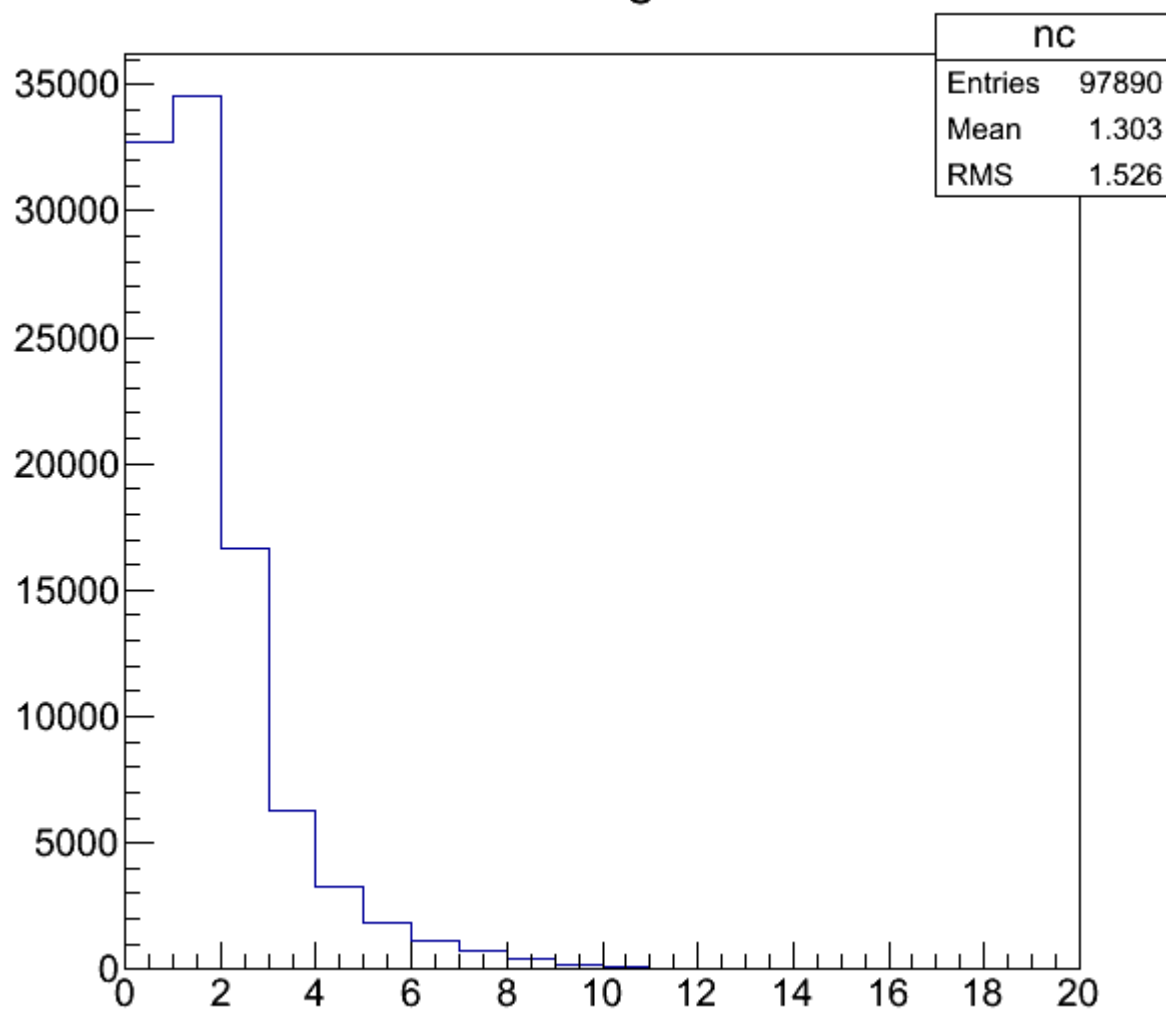And finaly only 4 events out of 100k pass the selection cuts.

So the results still have to be understood.

Dima

File Attachments
1) n_charged_stt.png, downloaded 1074 times

n charged

nc	
Entries	97890
Mean	1.303
RMS	1.526

2) m_nocuts_stt.png, downloaded 1132 times

φ: m(K+ K-) (no cuts)

h_mphi_nocuts	
Entries	74483
Mean	1.134
RMS	0.1372

E, GeV

η_c m(φ,φ), (no cuts)

h_etac_nocut	
Entries	41551
Mean	2.735
RMS	0.2301

E, GeV