Subject: eta_c drop in efficiency
Posted by Gianluigi Boca on Wed, 19 Oct 2011 16:02:01 GMT
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hello,
I investigated the discrepancy in efficiency in the Eta_c channel
when using the july11 release or the latest trunk version.
(pandaroot/macro/run/tdrct/eta_c directory).

In my opinion the problem is in the generation/digitization of the
Eta_c events.

In fact, when I use the events generated and digitized (i.e. the
evt_points_stt.root and evt_params_stt.root and evt_digi_stt.root files) with the july11 libraries
AND I ANALYSE THEM WITH THE
CURRENT TRUNK REVISION I obtain the same Eta_c plots obtained
when I ANALYSE THE SAME EVENTS WITH THE july11 VERSION OF THE CODE.

Please look at the attachment plots : trunk.pdf is when
the analysis is done with trunk, july11.pdf when I use the
july11 library.

Gianluigi

File Attachments
1) trunk.pdf, downloaded 534 times
2) july11.pdf, downloaded 476 times

Subject: Re: eta_c drop in efficiency
Posted by Dima Melnychuk on Wed, 19 Oct 2011 20:22:42 GMT
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Hi Gianluigi,

From the plots you posted, actually I see that the number of counts in eta_c peak for trunk is 2 times lower than for july11. Number of entries in histograms are almost the same but it's not an indicative number since it includes underflow/overflow.

Dima

Subject: Re: eta_c drop in efficiency
Posted by StefanoSpataro on Thu, 20 Oct 2011 08:00:09 GMT
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Probably using the same bin range and size would be helpful to compare the plots.
And I admit I have not well understood what you have done exactly.