Subject: Problems with Feb17 release
Posted by Alaa Dbeyssi on Wed, 01 Mar 2017 15:34:15 GMT
View Forum Message <> Reply to Message

Dear all,
We did simulations of the channel ppbar->e+e- (at 1.7 GeV/c) with the new release of PANDAROOT (feb17). We found problems with (or we did not understand) some reconstructed variables:

1- A Peak of the reconstructed angle around 90° (Lab) (Fig.1, Fig2)
2-Deposit energy in the EMC at the transition region between barrel and forward is zero (Fig3)

Macros are from "macro/day1/" of the feb17 release.

Decay file:

```
Decay pbarpSystem
  1.0  e+ e-    PHSP;
Enddecay

End
```

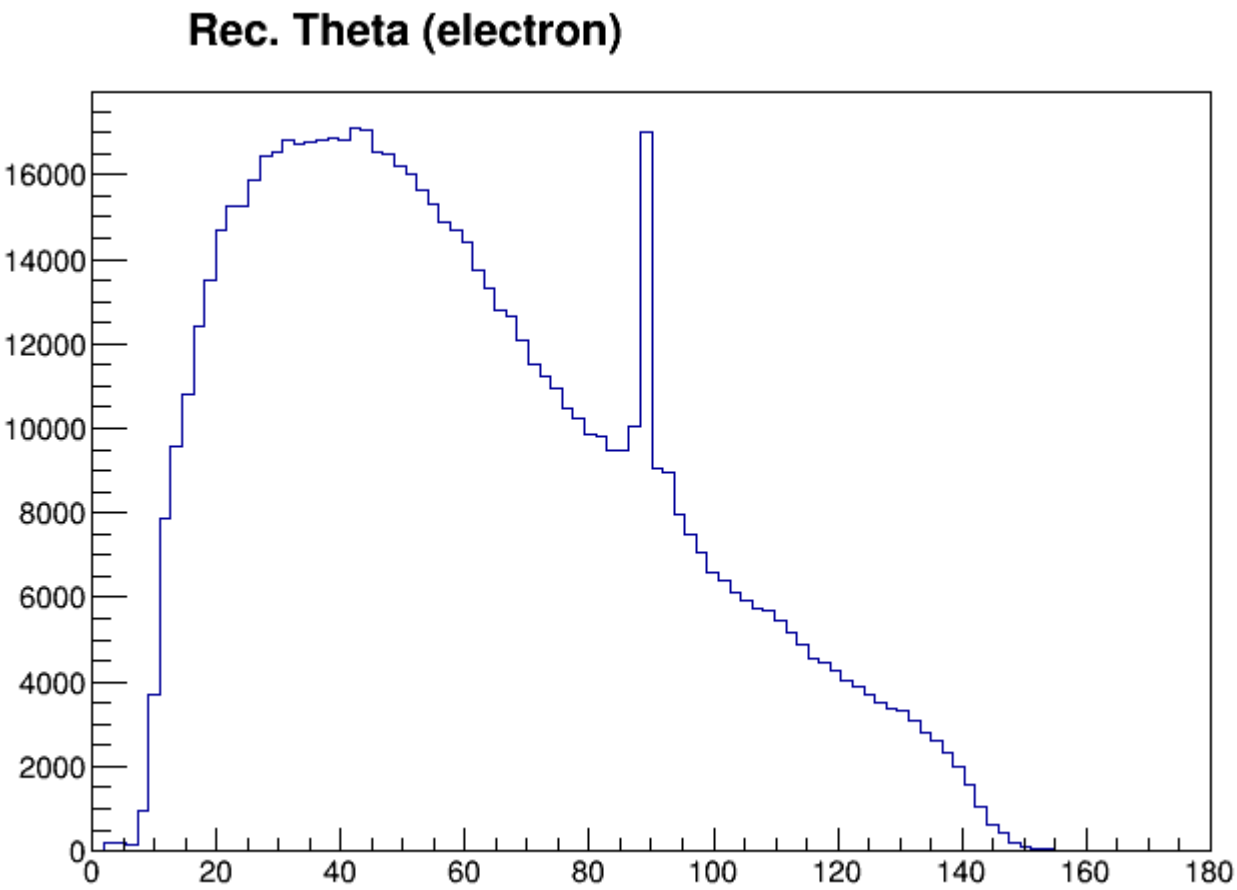
Thank you in advance for you help,

Alaa/Dmitry

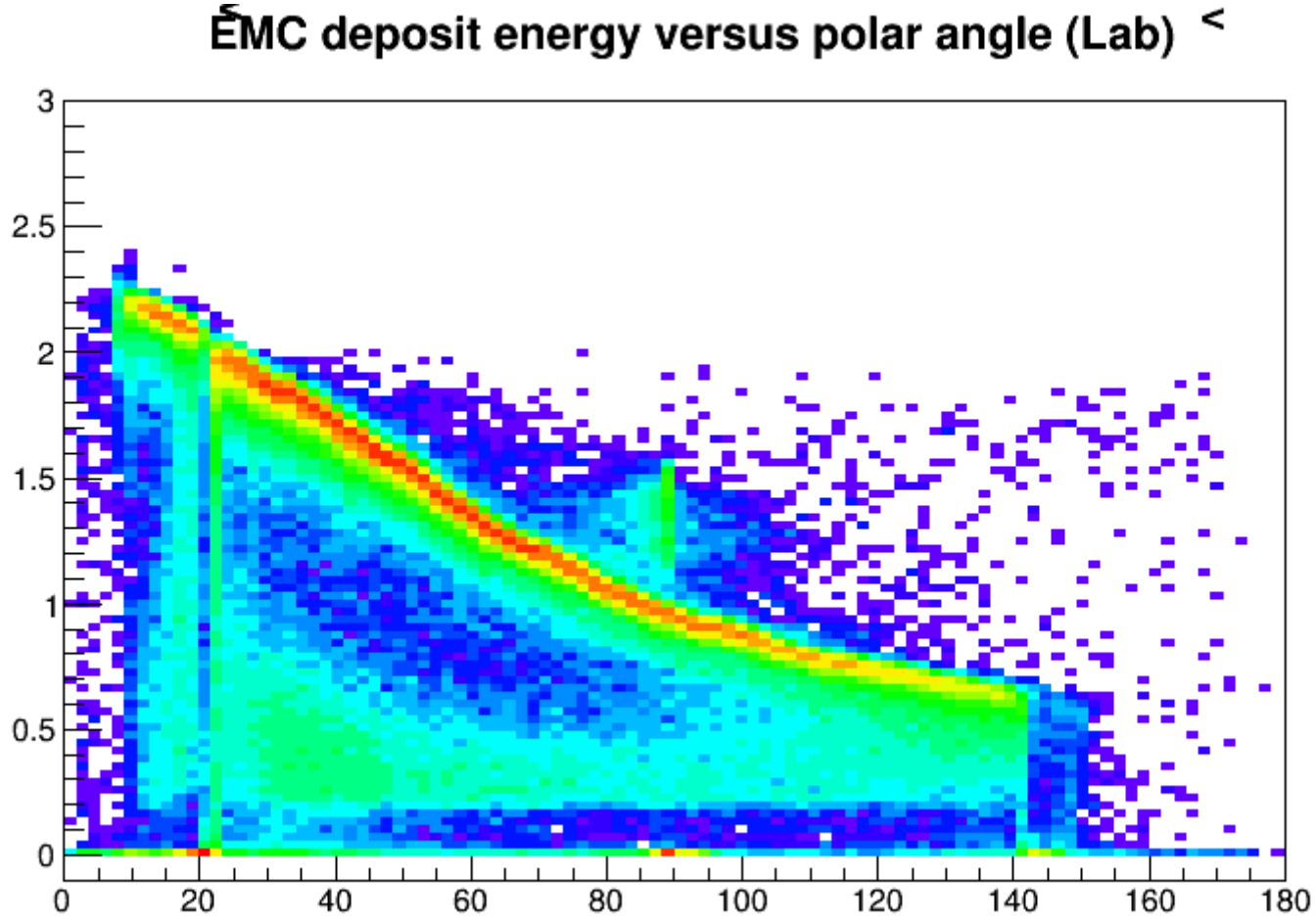
Subject: Re: Problems with Feb17 release
Posted by Alaa Dbeyssi on Wed, 01 Mar 2017 15:37:11 GMT
View Forum Message <> Reply to Message

Here are the Figures.
Alaa

File Attachments
1) Fig1_Rec_theta_Electron.png, downloaded 949 times



2) Fig2_Rec_MC_Theta_1p7GeVc_Electron.pdf, downloaded 526 times
3) Fig_3_EMC_ENE_Theta.png, downloaded 1030 times



Subject: Re: Problems with Feb17 release
Posted by Alaa Dbeyssi on Wed, 01 Mar 2017 15:38:20 GMT
View Forum Message <> Reply to Message

Here are the Figures.
Alaa

Subject: Re: Problems with Feb17 release
Posted by Tobias Stockmanns on Wed, 01 Mar 2017 16:28:38 GMT
View Forum Message <> Reply to Message

Dear Alaa,

could you please also provide the macro you have used to generate your plots?

Cheers,

Tobias

Subject: Re: Problems with Feb17 release
Posted by Alaa Dbeyssi on Wed, 01 Mar 2017 19:46:36 GMT
View Forum Message <> Reply to Message

Dear Tobias,
attached is the analysis macro I used where I fill the reconstructed variables in Ntuples.
Best regards,
Alaa

File Attachments
1) s_ana_complet.C, downloaded 501 times

Subject: Re: Problems with Feb17 release
Posted by Tobias Stockmanns on Thu, 02 Mar 2017 09:22:56 GMT
View Forum Message <> Reply to Message

Dear Alaa,

could you also send please your complete set of macros you have used? Your naming scheme in s_ana_complete.C looks different than the standard one.

Cheers,

Tobias

Subject: Re: Problems with Feb17 release
Posted by Alaa Dbeyssi on Thu, 02 Mar 2017 09:32:41 GMT
View Forum Message <> Reply to Message

Dear Tobias,
Here is the full set of macros.
Thank you,
Alaa

File Attachments
1) s_sim_complete.C, downloaded 588 times
2) s_digi_complete.C, downloaded 578 times
3) s_reco_complete.C, downloaded 621 times
4) s_pid_complete.C, downloaded 565 times
5) epem.dec, downloaded 588 times
6) s_ana_complet.C, downloaded 566 times