
Subject: Problems with Feb17 release

Posted by [Alaa Dbeyssi](#) on Wed, 01 Mar 2017 15:34:15 GMT

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Dear all,

We did simulations of the channel $p\bar{p} \rightarrow e^+e^-$ (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

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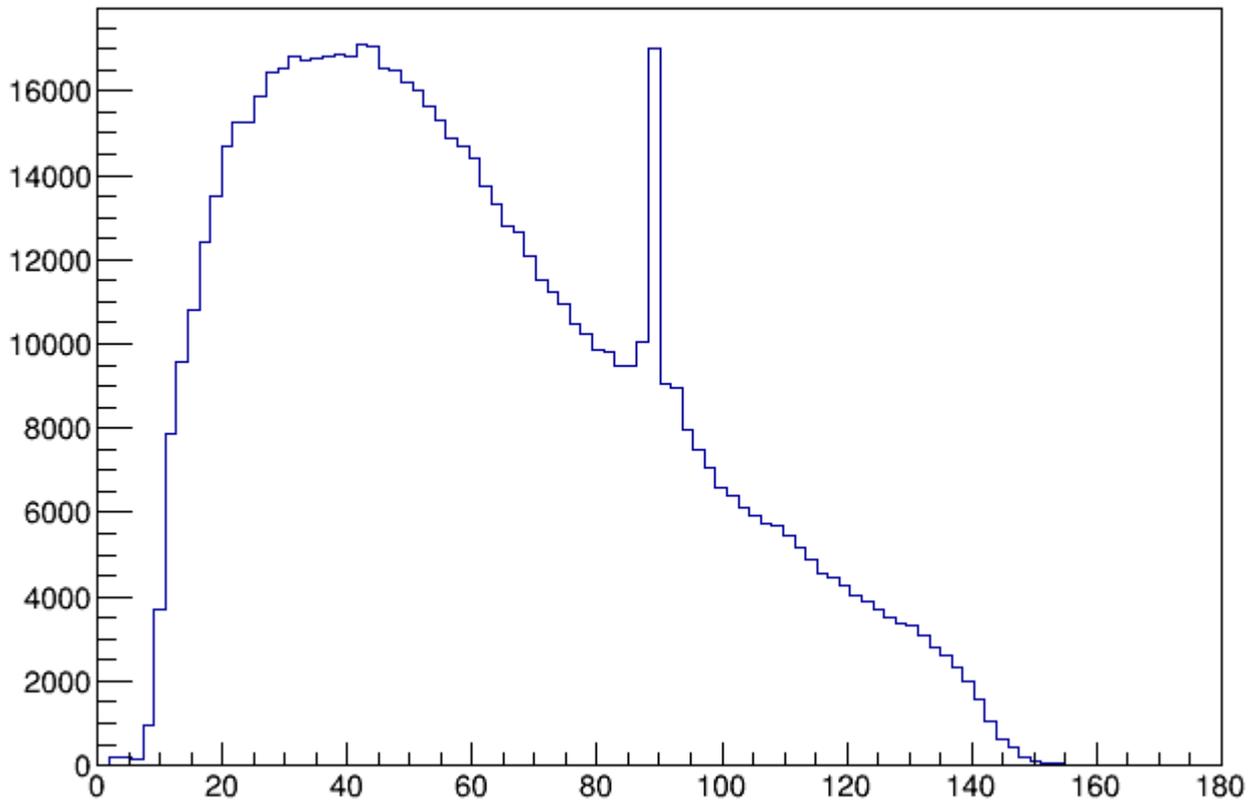
Here are the Figures.

Alaa

File Attachments

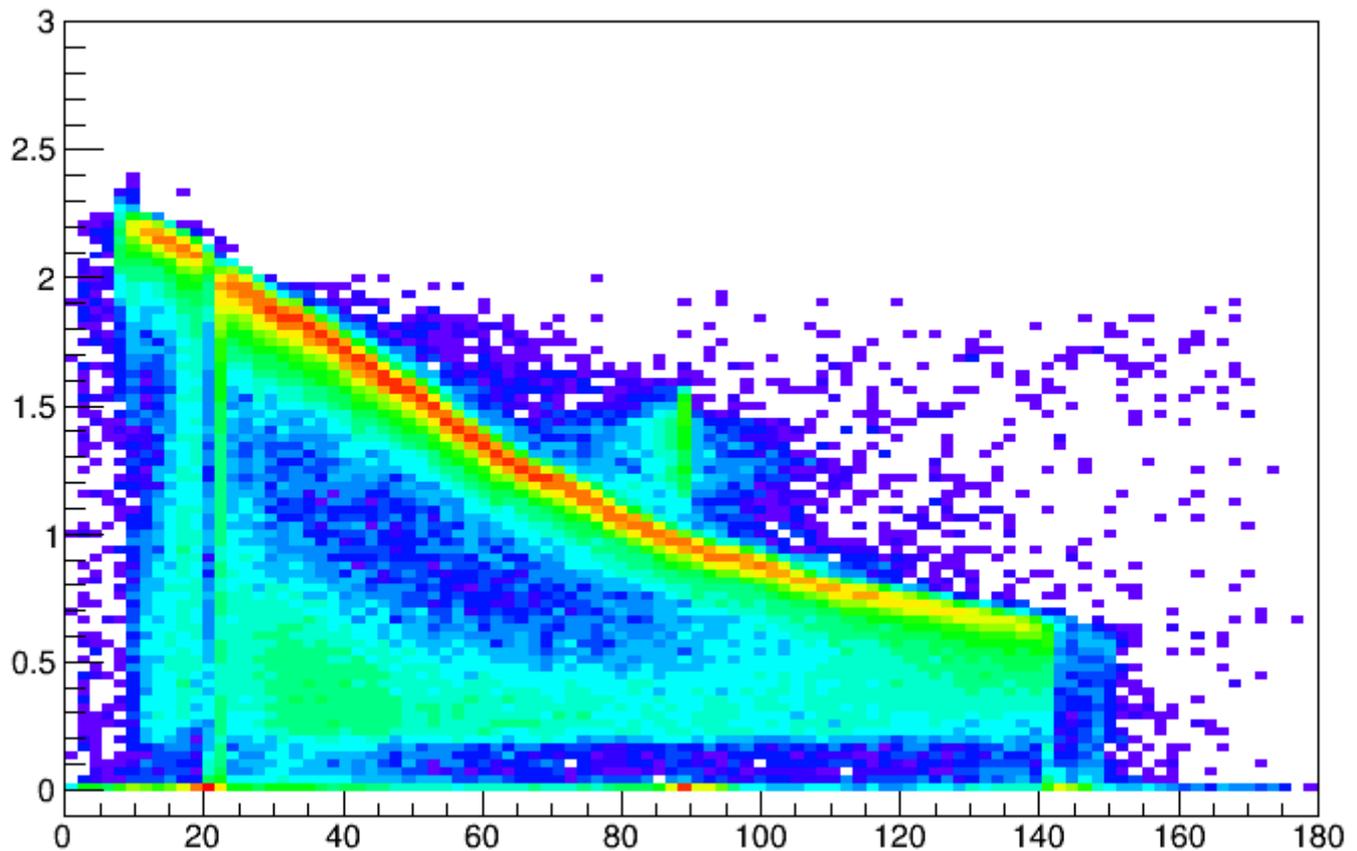
1) [Fig1_Rec_theta_Electron.png](#), downloaded 764 times

Rec. Theta (electron)



- 2) [Fig2_Rec_MC_Theta_1p7GeVc_Electron.pdf](#), downloaded 470 times
- 3) [Fig_3_EM_C_ENE_Theta.png](#), downloaded 772 times

EMC deposit energy versus polar angle (Lab) <



Subject: Re: Problems with Feb17 release
Posted by [Alaa Dbeyssi](#) on Wed, 01 Mar 2017 15:38:20 GMT
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Here are the Figures.
Alaa

Subject: Re: Problems with Feb17 release
Posted by [Tobias Stockmanns](#) on Wed, 01 Mar 2017 16:28:38 GMT
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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
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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 441 times

Subject: Re: Problems with Feb17 release
Posted by [Tobias Stockmanns](#) on Thu, 02 Mar 2017 09:22:56 GMT
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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
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Dear Tobias,
Here is the full set of macros.
Thank you,
Alaa

File Attachments

1) [s_sim_complete.C](#), downloaded 515 times
2) [s_digi_complete.C](#), downloaded 505 times
3) [s_reco_complete.C](#), downloaded 549 times
4) [s_pid_complete.C](#), downloaded 492 times
5) [epem.dec](#), downloaded 517 times
6) [s_ana_complet.C](#), downloaded 501 times
