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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  $90^\circ$  (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

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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.

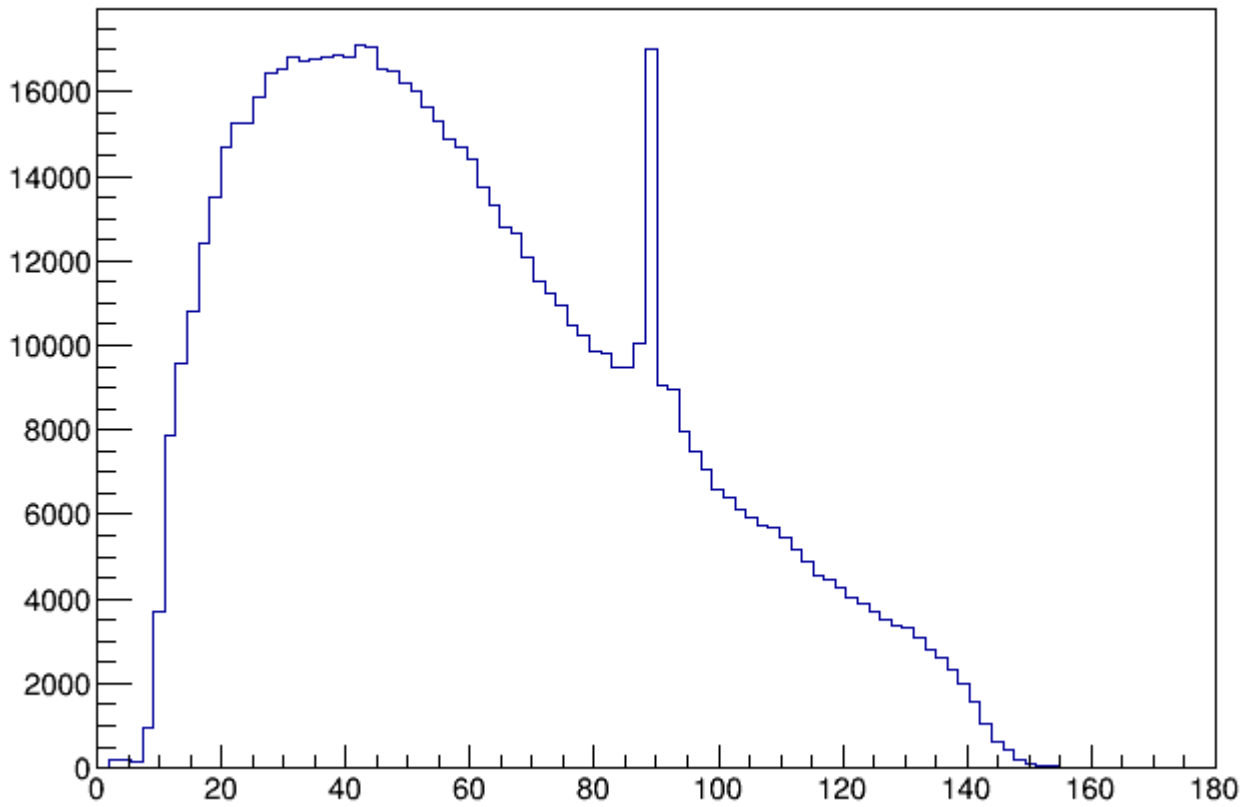
Alaa

File Attachments

1) [Fig1\\_Rec\\_theta\\_Electron.png](#), downloaded 295 times

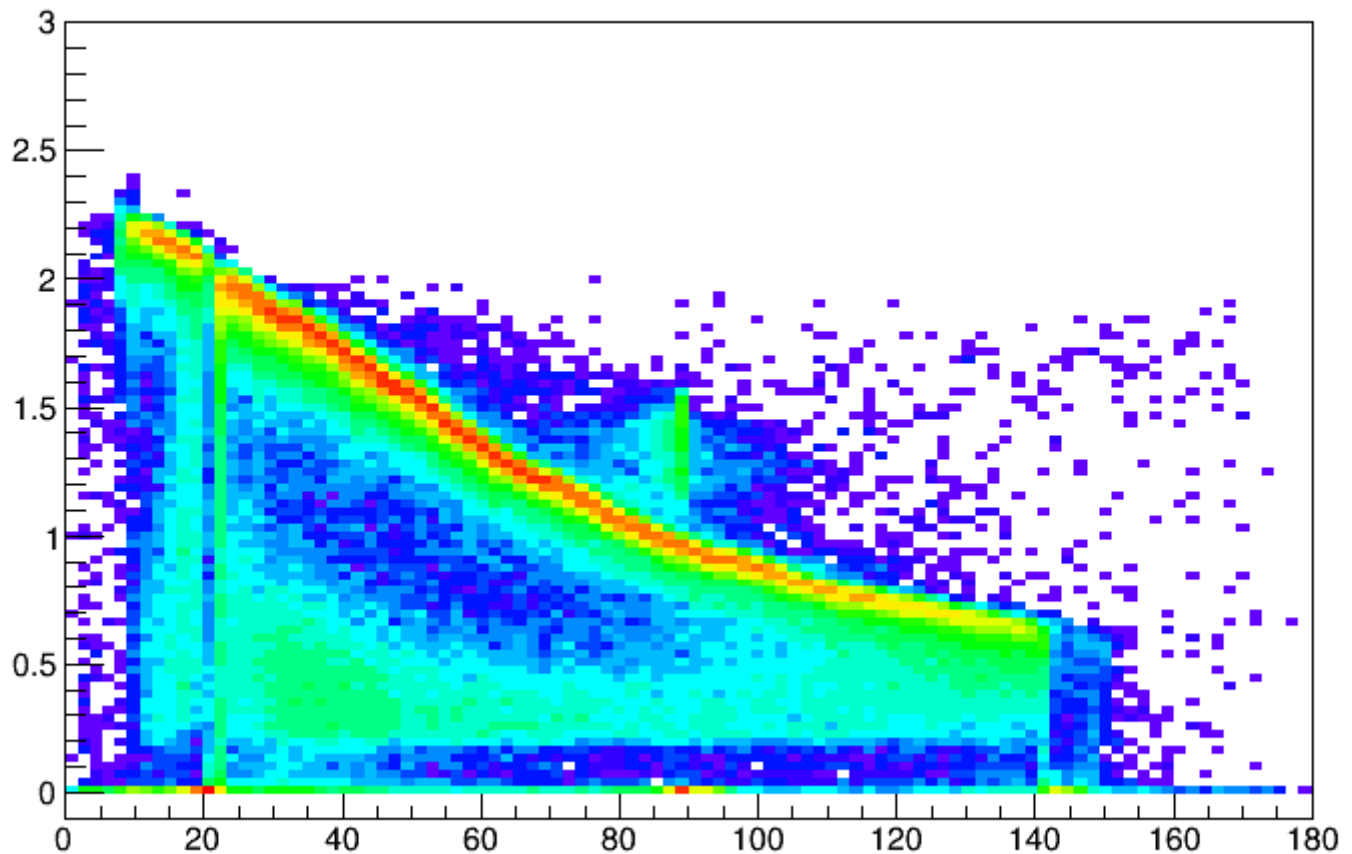
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## Rec. Theta (electron)



- 2) [Fig2\\_Rec\\_MC\\_Theta\\_1p7GeVc\\_Electron.pdf](#), downloaded 322 times
- 3) [Fig\\_3\\_EM\\_C\\_ENE\\_Theta.png](#), downloaded 283 times

## EMC deposit energy versus polar angle (Lab) <



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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

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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

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1) [s\\_ana\\_complet.C](#), downloaded 284 times

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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

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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

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1) [s\\_sim\\_complete.C](#), downloaded 353 times  
2) [s\\_digi\\_complete.C](#), downloaded 343 times  
3) [s\\_reco\\_complete.C](#), downloaded 317 times  
4) [s\\_pid\\_complete.C](#), downloaded 330 times  
5) [epem.dec](#), downloaded 344 times  
6) [s\\_ana\\_complet.C](#), downloaded 341 times

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