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Subject: Regarding Some Problem in TProfile

Posted by [Shyam Kumar](#) on Thu, 20 Nov 2014 13:48:13 GMT

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Dear All,

I am facing a problem in the use of TProfile I have plotted radiation length map by using TH2D and TProfile in TH2D  $X/X_0$  vs theta is going up to 1.5% of  $X_0$  but in TProfile It is going up to 0.7% of  $X_0$  however macro used is same. Is there some problem with TProfile? Plots are attached.

Thank You

Shyam

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#### File Attachments

1) [Radlenhist.pdf](#), downloaded 365 times

2) [Radlensim\\_tprofile.pdf](#), downloaded 355 times

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Subject: Re: Regarding Some Problem in TProfile

Posted by [StefanoSpataro](#) on Thu, 20 Nov 2014 14:41:41 GMT

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Can you please explain better your problem? From your sentence and your plot I was not able to understand what you did.

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Subject: Re: Regarding Some Problem in TProfile

Posted by [Shyam Kumar](#) on Thu, 20 Nov 2014 14:50:17 GMT

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Thanks for reply, I have plotted the radiation length map by using the same code in one case I have used TH2D for filling and drawing the ( $x/x_0$  vs theta and  $x/x_0$  vs phi) in other case I have used TProfile for filling and drawing ( $x/x_0$  vs theta and  $x/x_0$  vs phi). I have used the same code in both case but plots are looking very different why?

<https://subversion.gsi.de/trac/fairroot/browser/pandaroot/development/shyam/PANDAROOT-Source%40pandaroot/macro/run/materialbudgetlambdas.C>

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Subject: Re: Regarding Some Problem in TProfile

Posted by [StefanoSpataro](#) on Thu, 20 Nov 2014 14:58:10 GMT

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Never used profile in such a way, I cannot help.

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Subject: Re: Regarding Some Problem in TProfile

Posted by [Shyam Kumar](#) on Thu, 20 Nov 2014 15:05:11 GMT

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Can you tell me the way you have used then I will change the way of used TProfile in macro.

Thank You

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Subject: Re: Regarding Some Problem in TProfile  
Posted by [StefanoSpataro](#) on Thu, 20 Nov 2014 20:48:17 GMT  
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Taking a TH2 histogram and doing->ProfileX(...), not filling a TProfile. I have no idea what that code is doing.

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Subject: Re: Regarding Some Problem in TProfile  
Posted by [Shyam Kumar](#) on Fri, 21 Nov 2014 03:25:49 GMT  
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Thank you for reply, I will use profile this way.

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Subject: Re: Regarding Some Problem in TProfile  
Posted by [Shyam Kumar](#) on Sat, 22 Nov 2014 10:12:01 GMT  
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Hi,

The Problem is solved, Since TH2D and TProfile are the two different approaches, In TH2D entries are filled like (x,y) but Tprofile It shows the values mean value of Y for each bin interms of entries so we can not compare them. I have written a test macro (attached) to check it.

Thank You  
Shyam

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### File Attachments

1) [test.C](#), downloaded 333 times

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