
Subject: [FIXED] Problem with PndMCTrack::GetNPoints // PndDetectorList.h
Posted by [Dominik Steinschaden](#) on Fri, 15 Jan 2016 14:57:27 GMT
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Hi all,

Currently I'm doing some analysis, in which I want to use the function
`Int_t GetNPoints(DetectorId detId)`
of the class `PndMCTrack`.

I already have access to the information stored in the `MCTrack`, the only function I have problems with is this one.

As Input parameter an variable from Datatype "DetectorId" is needed.

As far as I understand in the included header file of `PndMCTrack` "`PndDetectorList.h`" this Datatyp is defined as:

```
enum DetectorId {  
/** kRICH must be the 1st id, and kHYP must be the last one. Please put new detectors in  
between!! **/  

```

```
kRICH,kDRC,kDSK,kEMC,kGEM,kLUMI,kMDT,kMVD,kRPC,kSTT,kFTOF,kTOF,kFTS,kHYPG  
,kHYP};
```

But when I try to use this definition in my analysis macros, I always get errors.

e.g.:

using the line:
`MCTrack->GetNPoints(kTOF)`

error: Error: Symbol kTOF is not defined in current scope

If I only try to define a variable of type `DetectorId`:

```
DetectorId test;
```

Error: Symbol `DetectorId test` is not defined in current scope

Can someone explain how to proper use this function of `MCTrack`?

regards Dominik

Subject: Re: Problem with PndMCTrack::GetNPoints // PndDetectorList.h
Posted by [Stefano Spataro](#) on Fri, 15 Jan 2016 15:05:28 GMT
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Did you add a

#include "PndDetectorList.h"
Or loaded the libPndData.so?

Subject: Re: Problem with PndMCTrack::GetNPoints // PndDetectorList.h
Posted by [Dominik Steinschaden](#) on Mon, 18 Jan 2016 11:03:21 GMT
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Hello,

no I didn't include the PndDetectorList.h,

So just for a better understanding. When do I have to include the corresponding header files in the macros and when not?

For example I'm also using the functions of different classes like PndMCTrack, or the FairRunAna without including the header files.

Subject: Re: Problem with PndMCTrack::GetNPoints // PndDetectorList.h
Posted by [Stefano Spataro](#) on Mon, 18 Jan 2016 11:19:26 GMT
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Classes are compiled in the shared libraries which are automatically loaded by rootmap.
PndDetectorList is not exactly a class, you need to include its header.
