
Subject: CbmTrackPar bug?

Posted by [Stefano Spataro](#) on Wed, 18 Jul 2007 15:36:03 GMT

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Hello,

i found something strange in the trackbase/CbmtrackPar.cxx.

Here you are the main constructor:

```
// ----- Constructor with parameters -----  
CbmTrackPar::CbmTrackPar(Double_t x, Double_t y, Double_t z,  
    Double_t px, Double_t py, Double_t pz, Double_t q)  
{  
    fX = 0;  
    fY = 0;  
    fZ = 0;  
    fPx = 0;  
    fPy = 0;  
    fPz = 0;  
    fq = q;  
    Double_t p=TMath::Sqrt(fPx*fPx +fPy*fPy +fPz*fPz );  
    if (p!=0)fQp = q/p;  
    else fQp=0;  
}
```

Should it be:

```
fX = x;  
fY = y;  
fZ = z;  
fPx = px;  
fPy = py;  
fPz = pz;
```

or am I missing something?

Subject: Re: CbmTrackPar bug?

Posted by [Andrea Fontana](#) on Wed, 18 Jul 2007 15:53:08 GMT

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Ciao Stefano,

yes, you are right, but this constructor is never called.

The working class is CbmTrackParH and here all the variables
are loaded correctly.

We will fix this anyway!

Ciao,
Andrea

Subject: Re: CbmTrackPar bug?
Posted by [Stefano Spataro](#) on Wed, 18 Jul 2007 15:58:43 GMT
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Well,
CbmTrackParH des not use that constructor, but this is not the case for CbmTrackParP:

```
CbmTrackParP.cxx  
CbmTrackParP::CbmTrackParP(Double_t x, Double_t y, Double_t z,  
    Double_t tx, Double_t ty, Double_t qp,  
    Double_t CovMatrix[15])  
    : CbmTrackPar(x,y,z,0,0,0,0)  
{  
    etc...  
}
```

I already fixed it in my local version of the code, I could put it in svn if needed.
Bye

Ste

Subject: Re: CbmTrackPar bug?
Posted by [Ralf Kliemt](#) on Wed, 18 Jul 2007 16:01:31 GMT
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Ciao Andrea,

I noticed that your update of the trackbase package contains a new class CbmGeaneUtil.
However its compilation call in the CMakeLists.txt is missing (you updated only the
Makefile.am and the TrackBaseLingDef.h). It compiles with cmake, but this class is missing,
which will cause some problems at runtime.

Kind regards, Ralf.

Subject: Re: CbmTrackPar bug?
Posted by [Andrea Fontana](#) on Wed, 18 Jul 2007 16:06:50 GMT
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Hello Ralf,
ok, fixed!

Thank you and ciao,
Andrea

Subject: Re: CbmTrackPar bug?

Posted by [Andrea Fontana](#) on Wed, 18 Jul 2007 16:08:48 GMT
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Yes, feel free to upload it. We have not modified
the cbmtrackP class yet.

Andrea
