
Subject: incomplete types

Posted by [Anonymous Poster](#) on Thu, 25 Jun 2009 08:58:42 GMT

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Hi everybody,

I tried to make the GENFIT RecoHitFactory mechanism typesafe. In the produce method I cast a detector hit out of the TClonesArray to a hit_T* (which is specialized as an PndMvdHit for example. It works for the STT, TPC, DCH, but for the MVD IO have a problem.

If you try a `dynamic_cast<PndMvdHit*>(hit)` where hit is an TObject* which comes out of the TClonesArray, you get something like:

```
/Users/hoepfi/trunk/genfit/RecoHitProducer.h:100: error: cannot dynamic_cast '#obj_type_ref'
not supported by dump_expr#<expression error>((&((RecoHitProducer<PndMvdHit,
PndMvdRecoHit>*)this)->RecoHitProducer<PndMvdHit,
PndMvdRecoHit>::hitArrayTClones->TClonesArray::<anonymous>), index)' (of type 'class
TObject*') to type 'struct PndMvdHit*' (target is not pointer or reference to complete type)
make[2]: *** [mvd/CMakeFiles/MvdTrk.dir/MvdTracking/PndMvdKalmanTask.o] Error 1
```

Google didnt really help me. Does anyone know what an incomplete type means. I thought it is a class where some methods where declared, but never defined. But I checked PndMvdHit an FairHit (which is its base class) but I didnt find anything.

I would really appreciate your help on this.

Cheers, Christian
