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Subject: PID information

Posted by [Daniel Wielanek](#) on Mon, 29 May 2017 14:22:54 GMT

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Dear "FairROOTers"

Can somebody explain me what really mean "MotherID", or how to get mother PID?

I was trying to get PDG code of parent by something like this:

```
FairMCTrack *parent = (FairMCTrack*)mc_tracks->UncheckedAt(daughter->GetMotherId());  
parent->GetPdgCode();
```

But when I looked at histograms I noticed that e.g. pion parent is particle with pid 211 - also pion, what is rather strange. This exist in Geant3/Geant4 setup. Is it a bug or "parent" is also particle that e.g. collided with this track?

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Subject: Re: PID information

Posted by [Mohammad Al-Turany](#) on Thu, 25 Jan 2018 08:17:58 GMT

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Hallo Daniel,

Sorry but somehow I did not see this post!! I am really sorry.

The mothered is the index of the parent particle in the simulation stack it has nothin to do with PDG, usually you get the TParticle (or MCTrack object) and then from the Particle you get the PDG.

best,

Mohammad

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