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Subject: Re: Pandaroot crash due to TParticlePDG.h  
Posted by [asanchez](#) on Sat, 24 Apr 2010 18:58:56 GMT  
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Hi  
i was checking the code and  
i found some inconsistency in the particle definition  
between FairParticle and TGeant3.cxx.

In TGeant3.cxx alphas are defined with a pdgCode  
(Line 7002)  
determined by  $\text{pdg} = 1000000000 + 10000 * z + 10 * a$ ;  
which is the correct way.

Instead in FairParticle,

The constructor for standard ions

Line 129

`FairParticle(const char* name, Int_t z, Int_t a, Double_t mass, Int_t q, Bool_t stable, Double_t decaytime)`

uses  $\text{fpdg} = 10000000 + 10000 * z + 10 * a$ ;  
where the difference here is that 10000000 must be substituted by 10e9.

I'm not sure wether that is the problem, but at least the pdg codes for particles must be  
consistent everywhere within the code.

best regards

ALicia.

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