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Subject: PdgCode > 1000000000 ?

Posted by [Tobias Stockmanns](#) on Tue, 12 Feb 2008 10:07:36 GMT

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Dear developers,

I am a bit puzzled about tracks with a PdgCode > 10<sup>9</sup>. Does somebody know what they are?

I did a simulation with the box generator and two pions coming from the interaction point and momenta between 0.01 and 1 GeV/c.

In some cases the pion creates new particles with very high PDG codes:

TrackID: 1828 PdgCode: 1000140280 StartVertex: 13.0265/0.646198/5.33526 <- TrackID: 0

PdgCode: 211 0/0/0

Ciao,

Tobias

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Subject: Re: PdgCode > 1000000000 ?

Posted by [Sebastian Neubert](#) on Tue, 12 Feb 2008 10:29:00 GMT

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Look here into this thread...

Cheers! Sebastian.

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Subject: Re: PdgCode > 1000000000 ?

Posted by [asanchez](#) on Tue, 12 Feb 2008 11:34:35 GMT

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Hi Tobias and Sebastian these particles are ions  
look at base/CbmParticle

```
fpdg= 10000000+10000* z +10 * a;
```

what i don't know is because, if they are produced why are not recognised by geant.

try with geant3, if it work  
maybe these particles are not added for geant4 VMC.

It is strange because for me it works.Are you working with the development package(new Packages)

Maybe Mohammad can say something about it.

cheers ALicia.

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