
Subject: Re: TGeant4 Error with pbarpSystem
Posted by [Ralf Kliemt](#) on Thu, 02 May 2013 13:10:12 GMT
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Hi,

EvtGen has its own description of particles in the EvtGen/evt.pdl file. This mostly matches the root particle description (most probably used in Geant4) defined in fairsoft/etc/pdg_table.txt. The Psi(2S) for example has the pdgcode and name (30443,"psi(2S)) in EvtGen and (100443,"psi") in root. Same holds for the psi(3770). The pbarpsystem is even not defined in root.

Geant3 is not so picky about the particle tree, as it tells you the error/warning "can be safely ignored". These particles are not tracked - so why bothering.

To put a particle definition to the TDatabasePDG you may use:

```
TDatabasePDG::Instance()->AddParticle(...)
```

Just put it to the macro before FairRun::Run() and your initial system (also pbarp if you like) will be present.

I have the converter from Rho ready in the banks.

However, I think adjusting EvtGen to use the root pdg table would be advisable: one list only.

Cheers.

Ralf
