Subject: Re: Bremsstrahlung and geant Posted by asanchez on Thu, 07 Oct 2010 09:37:57 GMT View Forum Message <> Reply to Message

So coming back to the issue of the Bremsstrahlung processes by electrons.

If i have well understood, in geant4/3 electrons are treated as mother particle(primary or secondary) losing energy according with the Bremsstrahlung process and emitting photons.

So the electron in MCtrack should remain as mother particle and the photons are treated as secondaries.

To check that, use the following

```
for example the pdgcode of the mother and daughter particles in geant4
```

From your MC information PndEmcPoint * pop;

```
PndMCTrack* moc=(PndMCTrack*)fMcTr->At(pop->GetTrackID());
```

if(moc==0)continue;

```
MotherId= moc->GetMotherID();
```

```
if (MotherId==-1)Motherpdg = moc->GetPdgCode(); // case electron as primary mother
    else {
    PndMCTrack *mother =(PndMCTrack*)fMcTr->At(MotherId); // case electron as secondary
    mother
```

```
Motherpdg = mother->GetPdgCode();
}
```

See :