Subject: DPM generator. Question about mothers and daughters
Posted by Dmitry Morozov on Thu, 07 Feb 2008 12:05:51 GMT

Dear DPM experts!

I would like to have some sample of inelastic events generated by DPM. The goal is to look on kinematics of several processes.
During the simulation I noticed that some decays are forbidden (pi^0, Lambda etc). Yes, it could be decayed later in geant, but i don't need it for now. In principle I can allow decays in init.f file. The problem is then I look in the file generated, by root Browser or by macro, there is no info about mother particles or daughter particles of given one. All I can see is zero...

Is there a way to access this information? Or I do something stupid?

Thank you.
Dmitry.

Subject: Re: DPM generator. Question about mothers and daughters
Posted by Johan Messchendorp on Sun, 17 Feb 2008 21:37:28 GMT

Dear Dmitry,

I am not an DPM expert. Nevertheless, I am dealing with the same problem. Indeed, you can set in init.f pi^0 etc to ISTAB "2", which enforces the particles to decay. I do see the corresponding daughter particles in the output root file. For instance, for pi^0 (111), I find back two particles with ID 22 (photons). The information about the mother particle is lost, as far as I can judge.

The real expert are Aida Galoyan and Vladimir Uzhinsky. Maybe you can try to send them an email (please CC their answer to this forum as well): galoyan@lxpub01.jinr.ru and uzhinsky@jinr.ru

Kind wishes,

Johan.