Subject: Re: new FTF generator in pandaroot
Posted by Anastasia Karavdina on Tue, 16 Sep 2014 12:33:51 GMT
View Forum Message <> Reply to Message

Dear Aida,
I had a look at main.cc file in pgenerators/FtfEvtGen and came to conclusion that elastic scattering is included, but only hadronic part of it.
Is it right?
It would be nice to have option to switch off elastic part and use only inelastic mode, as it was before in DPM.

Also I notice, that energy of final particles is stored in MeV, while pandaroot deals with GeV. I suspect due to this reason particles are treated as particles with high energy and propagation with GEANT4 (within pandaroot) is extremely slow.
I introduced conversion to GeV by changing one line in main.cc:
from
Mom.SetPxPyPzE(px,py,pz,e);
to
Mom.SetPxPyPzE(px/GeV,py/GeV,pz/GeV,e/GeV);
But I am not sure if it is correct place to do this conversion. What do you think?

Best regards,
Anastasia