Subject: full panda simulation with FTF
Posted by Karoly Makonyi on Thu, 11 Jan 2018 15:17:05 GMT
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Hello,

1, I want to use the FTF generator with the 'tut_sim.C' script in the tutorial/rho directory.
  Doing that I set the 'inputGenerator' parameter to "ftf".
  I receive the following error message:

/cvmfs/fairroot.gsi.de/fairsoft/oct17_root6/bin/root.exe: symbol lookup error:
/lustre/nyx/panda/kmakonyi/PandaRoot/pandaroot_041117-src/built/lib/libM aster.so.0.0.0:
undefined symbol: _ZN12PndFtfDirectC1EPKcS1_iS1_dib

2, I want to use the FTF generator to do a full detector simulation (based on the
tutorias/rho/tut_sim.C script) to simulate prototn-antiproton _and_ proton-proton events.
  How to pass the necessary 'mac' file to the generator?
  (my first guess is that the
    fRun->UseFtfGenerator("/lustre/nyx/panda/kmakonyi/WORK/DecChan/PbarA.mac ");
   line will do this for me ... Can you confirm that?)

Subject: Re: full panda simulation with FTF
Posted by Ralf Kliemt on Fri, 12 Jan 2018 10:42:09 GMT
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Hello Karoly,

There is still an issue with FTF and GEANT4. Please use FTF as standalone generator. You'll find the executable in your build/bin folder. Name the output in the form of ftf*.root. Then you can use this file as the value for inputGenerator="ftf....root". It should then be read by the simulation.

Cheers!
  Ralf

Subject: Re: full panda simulation with FTF
Posted by Karoly Makonyi on Wed, 17 Jan 2018 09:11:51 GMT
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Thank You Ralf!

An other question: is there any way (not the TFT) to generate proton-proton bckg events?

Regards,
Karoly

Subject: Re: full panda simulation with FTF
Posted by StefanoSpataro on Wed, 17 Jan 2018 09:20:02 GMT
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Using DPM (which si fully compatible w/o producing an additional file).

Subject: Re: full panda simulation with FTF
Posted by Ralf Kliemt on Wed, 17 Jan 2018 09:22:15 GMT
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Yes, DpmDirect is working out of the box.
A fix for FTF is on the way to GIT, soon.

Subject: Re: full panda simulation with FTF
Posted by Karoly Makonyi on Wed, 17 Jan 2018 09:31:50 GMT
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Thank You guys,

What I have to modify on the Dpm/DpmDirec in order to simulate proton-proton (and not proton-antiproton) events?

Thanx in advance,
Karoly

Subject: Re: full panda simulation with FTF
Posted by StefanoSpataro on Wed, 17 Jan 2018 09:38:27 GMT
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Sorry, I did not catch that you are interested in proton-proton, and not antiproton-proton.
As far as I remember, DPM is only with antiproton beam. Maybe Pythia could do the job, but at low energies Pythia is not very realistic.

Subject: Re: full panda simulation with FTF
Posted by Karoly Makonyi on Wed, 17 Jan 2018 09:48:38 GMT
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Thanx Stefano,

So, it seems there is no other way only use the TFT ...

Best Regards,
Karoly