Subject: Ftf Direct Generator
Posted by Ralf Kliemt on Fri, 05 Dec 2014 12:50:43 GMT
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Hi all,

I added a PndFtfDirect generator, similar to the DPM case. Have a go and tell if you find any bugs.

```
TString macfile = gSystem->Getenv("VMCWORKDIR");
macfile += "/pgenerators/FtfEvtGen/PbarP.mac";
PndFtfDirect *Ftf = new PndFtfDirect(macfile.Data());
primGen->AddGenerator(Ftf);
```

Cheers
Ralf

Subject: Re: Ftf Direct Generator
Posted by Ralf Kliemt on Thu, 05 Feb 2015 15:08:21 GMT
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Hi everyone,

There is now an option to cut out all pbar-p elastic events from the generator (thanks to Anastasia). To activate, simple add a line containting "#noElastics" in your .mac configuration file.

Cheers
Ralf

Subject: Re: Ftf Direct Generator
Posted by Anastasia Karavdina on Fri, 06 Feb 2015 09:32:42 GMT
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Hi Ralf,
Thanks a lot for adding this feature and spending your time for Ftf Direct!
I tried to run small test, but for some reason FtfEvtGen is not complied by default. I added it manually in CMakeLists, recompiled the pandaroot and in new attempt to run the macro I got following error:

dlopen error: /home/karavdin/pandaroot13/buildPanda/lib/libFtfGenDirect.so: undefined symbol: aDynamicParticleAllocator
Load Error: Failed to load Dynamic link library /home/karavdin/pandaroot13/buildPanda/lib/libFtfGenDirect.so
Error in <TCint::AutoLoadCallback>: failure loading library FtfGenDirect for class PndFtfDirect

Do you maybe have idea how to fix it?

Subject: Re: Ftf Direct Generator
Posted by Ralf Kliemt on Fri, 06 Feb 2015 14:09:44 GMT
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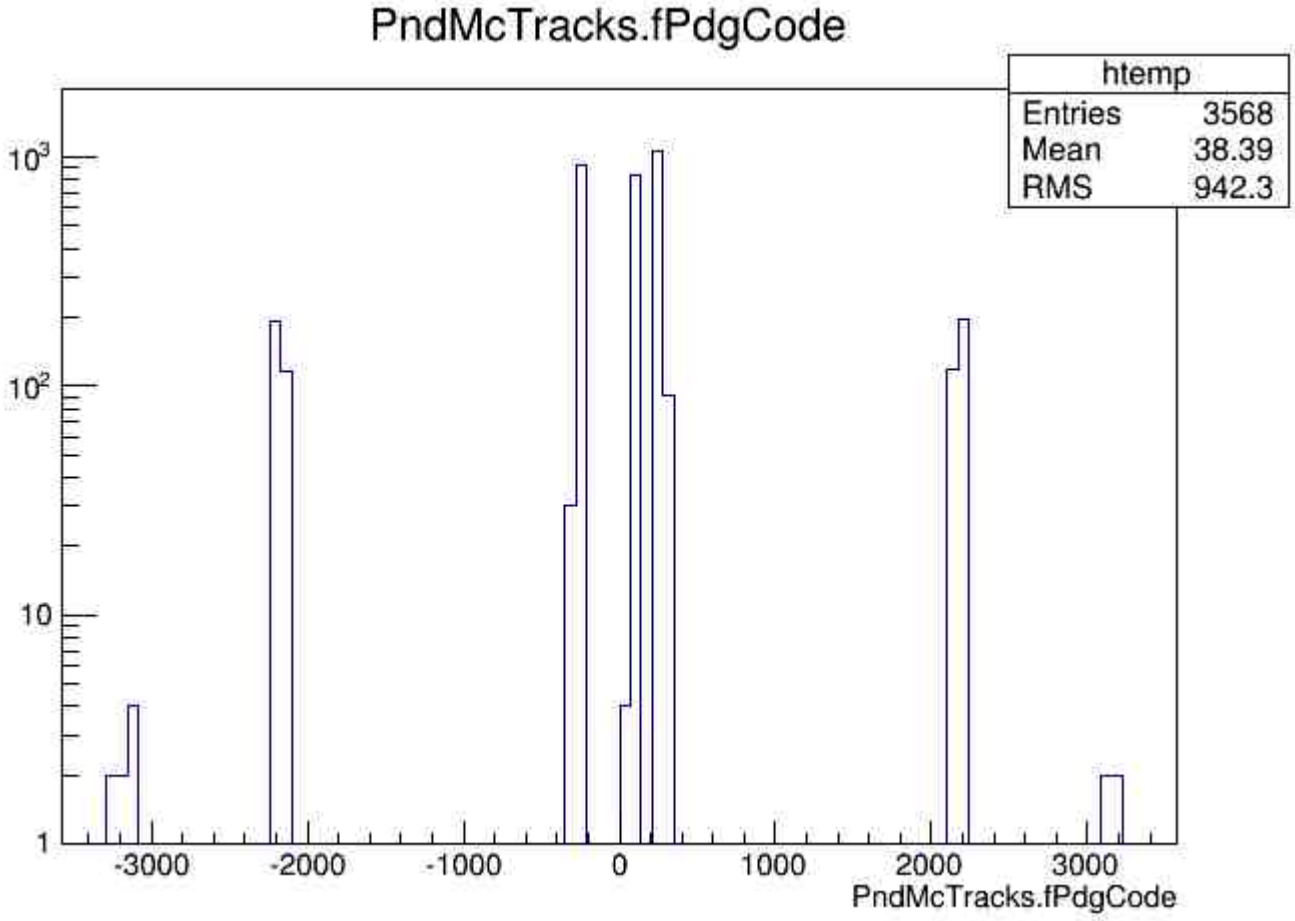
Hi Anastasia,

I activated the auto-compilation of FTF and sixed the dependencies. With macro/run/run_fast.C (you have to activate ftf) I get an MC PID distribution of:

Cheers
Ralf

File Attachments

1) Canvas_1.jpg, downloaded 1881 times



Subject: Re: Ftf Direct Generator
Posted by StefanoSpataro on Fri, 06 Feb 2015 14:24:48 GMT
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Hi,
the last commit does not compile:

/usr/bin/ld: CMakeFiles/FtfEvtGen_exe.dir/main.cc.o: undefined reference to symbol '_ZN13G4NistManager8InstanceEv'
/usr/bin/ld: note: '_ZN13G4NistManager8InstanceEv' is defined in DSO /cvmfs/fairroot.gsi.de/fairsoft/apr13/lib/libG4materials.so so try adding it to the linker command line
/cvmfs/fairroot.gsi.de/fairsoft/apr13/lib/libG4materials.so: could not read symbols: Invalid operation

---

Subject: Re: Ftf Direct Generator
Posted by Ralf Kliemt on Fri, 06 Feb 2015 14:27:55 GMT
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Which externals? Git or not?

Cheers

Subject: Re: Ftf Direct Generator
Posted by StefanoSpataro on Fri, 06 Feb 2015 14:34:52 GMT
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Not.

Subject: Re: Ftf Direct Generator
Posted by Anastasia Karavdina on Fri, 06 Feb 2015 14:38:19 GMT
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I got the same error message as Stefano on Ubuntu 14 and on Scientific Linux 6.0 it works just fine. In both cases I have apr13 externals.

Subject: Re: Ftf Direct Generator
Posted by Ralf Kliemt on Fri, 06 Feb 2015 14:43:30 GMT
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Well,
I added the suggested dependency to the CMakeLists. Today I learned from the FairSoft team that there are some issues on some Ubuntu distributions. Why ever that may be...

Cheers

Subject: Re: Ftf Direct Generator
Posted by StefanoSpataro on Fri, 06 Feb 2015 14:46:01 GMT
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According to the dashboard it is still not compiling:

http://cdash.gsi.de/CDash/viewBuildError.php?buildid=44224

Subject: Re: Ftf Direct Generator
Posted by Ralf Kliemt on Fri, 06 Feb 2015 15:25:07 GMT
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Hi.
I had to switch off the executable. So, people will have to compile it still by themselves.

Ralf

Subject: Re: Ftf Direct Generator
Posted by Anastasia Karavdina on Wed, 11 Feb 2015 08:20:28 GMT
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Hi Ralf,
Do I understand correctly that for change of the beam momentum value in simulation with FTFDirect one has to modify *.mac file?
Is it possible to change this parameter from the simulation macro?

Cheers,
Anastasia

Subject: Re: Ftf Direct Generator
Posted by Ralf Kliemt on Wed, 11 Feb 2015 08:27:56 GMT
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Hi Anastasia,

You're right that would be convenient. I'll make something.

Ralf

Subject: Re: Ftf Direct Generator
Posted by Ralf Kliemt on Wed, 11 Feb 2015 16:27:56 GMT
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Hi Anastasia,

You can configure now the FtfDirect in the macro. See below.

```
PndFtfDirect *Ftf = new PndFtfDirect("anti_proton", "G4_H", 1, "ftfp", mom, 123456);
primGen->AddGenerator(Ftf);
```

Cheers
Ralf