Subject: Freezout coordinates
Posted by Daniel Wielanek on Sun, 24 Feb 2013 16:21:10 GMT
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Hi,
Is there any option to add to FairROOT freezoutt coordinates? I want to use them but after I run converters I loose those data. I want to avoid rewriting half of FairROOT classes to add 4 branches.

Subject: Re: Freezout coordinates
Posted by Mohammad Al-Turany on Sun, 24 Feb 2013 17:53:46 GMT
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Hi,

In which experiment you are? you need to change two classes and not the half of FairRoot! The changes are in the user classes and not in the base itself. I.e: In case you are using the example in FairBase, then you need to change FairMCTrack and FairStack to add your stuff Or the corresponding classes in your experiment branch).

Mohammad

Subject: Re: Freezout coordinates
Posted by Daniel Wielanek on Sun, 24 Feb 2013 18:22:22 GMT
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Hi,
I just looked at FairUrqmdGenerator class that is used in one on example macros in MPDRoot, I noticed that there is reading data from text file and adding particles by FairPrimaryGenerator->AddTrack() and there are no field like freezout coordinates. If I understood this code this is only place where urqmd file i read, so if I don't add these points here I can't add those coordinates until I start reconstruction. Am I right?

Subject: Re: Freezout coordinates
Posted by Mohammad Al-Turany on Mon, 25 Feb 2013 09:45:05 GMT
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Hi,

Ok, You can create your own PrimaryGenerator which inherits from FairPrimaryGenerator and overwrite the virtual method AddTrack or write you own AddTrack method and call it from your own ReadEvent in your generator. So in Summary you need 4-Classes to do this.

1. Your Generator in which you read the freezout coordinates in ReadEvent0
2. Subclass of the FairPrimaryGenerator that has an AddTrack method or what ever you call it that push your variable into the stack, this method you call from your ReadEvent()

3. Your own MCTrack which keep your parameter in the Tree
4. Your own Stack which holds the variable during simulation

Doing that you have to create your primary generator in the simulation macro and not the FairPrimaryGenerator.

Hope this will help you.

Cheers,

Mohammad
