
Subject: Re: Beam profile or interaction point
Posted by [donghee](#) on Tue, 02 Jun 2009 14:14:07 GMT
[View Forum Message](#) <> [Reply to Message](#)

Thank you for your helpful answer.

The script looks quite useful in any case.
Actually, my output file is saved with primary vertex position (0,0,0) in the ascii file.
I call this file in the macro level during the simulation run.

There are two choice.

I can make the smearing in the fortran code of generator, this is not convenient,
or I can do it in the panda macro level.

I prefer the latter.

To do that, I have to keep momentum information from ascii file and just put smearing vertex position as you recommended.

Quote:

```
// mean location of the target  
Vertex.SetXYZT(0,0,0,0); // zero by default  
// smearing of the primary vertex (Gauss with the above mean, and this sigma)  
TVector3 VtxRes(.1,.1,.2); // what target smearing do you want???  
TParticle BeamTarget(999,1,0,0,0,0,s,Vertex);  
PndReaction reaction( BeamTarget, VtxRes, "PhiPhi.root" );
```

Quote:

```
FairPrimaryGenerator* primGen = new FairPrimaryGenerator();  
fRun->SetGenerator(primGen);
```

```
PndPythiaGenerator* pygen=new PndPythiaGenerator(inFile.Data());  
primGen->AddGenerator(pygen);
```

```
fRun->SetStoreTraj(kTRUE);
```

I think that I have to combine some function of PndReaction with PndPythiaGenerator.
I'm not clear what do I have to as a next step?
Could you give me some hint?
Thank you! Aida

Best regards,
Donghee