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Subject: Event filter

Posted by [donghee](#) on Sat, 08 Nov 2014 17:33:24 GMT

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Hi Martin,

I want to sort pi+pi- data sample from DPM, and you show us the effective way.

I follow in my simulation macro something like this with PANDARoot oct14 release version.

Quote:

```
PndDpmDirect *Dpm= new PndDpmDirect(mom,0);
primGen->AddGenerator(Dpm);
```

```
FairEvtFilterOniSingleParticleCounts* fil= new
FairEvtFilterOnSingleParticleCounts("PdgFilter");
fil->AndMinMaxPdgCodes(1,1,211,-211);
primGen->AndFilter(fil);
```

But I got the error when I am trying to use AndFilter().

Quote:

```
<l> PndDpmDirect initialization
```

```
<l> Momentum = 1.9
```

```
<l> Seed = 4.29497e+09
```

```
<l> Mode = 0
```

```
<l> Theta min = 3.15789
```

```
Error: Can't call FairPrimaryGenerator::AndFilter(fil) in current scope
```

```
/hera/panda/donghee/pandaroot/pandaroot_oct14/macro/softrig/prod_sim_fil ter.C:171:
```

```
Possible candidates are...
```

```
(in FairPrimaryGenerator)
```

```
*** Interpreter error recovered ***
```

Do you have any idea? Do I need to compile something to let work?

Best wishes,

Donghee

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Subject: Re: Event filter

Posted by [MartinJGaluska](#) on Sat, 08 Nov 2014 19:41:57 GMT

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Hello Donghee,

please try using

```
FairFilteredPrimaryGenerator* primGen = new FairFilteredPrimaryGenerator();
```

instead of

```
FairPrimaryGenerator* primGen = new FairPrimaryGenerator();
```

as explained here.

Kind regards,  
Martin

PS: I had to move all the event filter related code of FairPrimaryGenerator to its own class which I called FairFilteredPrimaryGenerator. FairFilteredPrimaryGenerator can be used with and without event filtering as it just adds code to FairPrimaryGenerator.

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Subject: Re: Event filter  
Posted by [donghee](#) on Sat, 08 Nov 2014 19:46:08 GMT  
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Hi Martin,

Thanks, it works!

Best regards,  
Donghee

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