
Subject: [FIXED] Problems with sim macro
Posted by [Jennifer Pütz](#) on Tue, 06 Oct 2015 09:22:41 GMT
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Hi all,

I have a problem with the "standard" sim macro.

I run a test simulation for $p\bar{p} \rightarrow \Xi(1820)^+ \Xi^-$ with 1000 events and a beam momentum of 4.6 GeV/c .

When I look into the macro output `sim_complete.root` there are two `cbmsim` branches named `cbmsim;1` and `cbmsim;2`. The number of entries in `cbmsim;1` is smaller than in `cbmsim;2`. And the number of generated particles with `motherID==1` is not matching for `cbmsim;1`. (For `cbmsim;2` everything seems to be fine.)

The problem is that the standard pid macro seems to use `cbmsim;1`.

If I reduce the number of events to e.g. 500, there is only one `cbmsim` branch with the correct number of generated particles in the output file.

Can anyone help me with this problem?

I attached the sim macro, my .dec-file and a modified `evt.pdl` which contains the added $\Xi(1820)^+$ particle.

Cheers
Jenny

I'm using:

PandaRoot: trunk rev. 28555
Fairsoft: mar15
FairRoot: master

File Attachments

- 1) [evt.pdl](#), downloaded 343 times
 - 2) [XiPlus_1820_AntiLambda0_K.dec](#), downloaded 348 times
 - 3) [sim_complete.C](#), downloaded 334 times
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Subject: Re: Problems with sim macro
Posted by [Stefano Spataro](#) on Tue, 06 Oct 2015 10:38:44 GMT
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Quote: The problem is that the standard pid macro seems to use `cbmsim;1`.

How did you see this? if you do `cbmsim->GetEntries()`, how many events do you have after sim and after pid macro?

Subject: Re: Problems with sim macro
Posted by [Klaus Götzen](#) on Tue, 06 Oct 2015 11:10:58 GMT

Hi Jenny,

you might take a look here: <https://root.cern.ch/root/roottalk/roottalk11/0963.html> Doesn't seem to be a problem.

Best,
Klaus

Subject: Re: Problems with sim macro
Posted by [Jennifer Pütz](#) on Tue, 06 Oct 2015 11:35:42 GMT
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Hi Stefano, hi Klaus,

thank you for the quick answer.

After I did the checks Stefano suggested I realized that I mixed up something in my files. Sorry for this.

I compared again the number of particles from the sim macro with the number of MC particles I get with my analysis macro from the pid-file. And now the numbers are matching.

Cheers,

Jenny
